



**FEDERAL COMMUNICATIONS
COMMISSION RULES**

PART 73

RADIO BROADCAST SERVICES

AN UP-TO-DATE COPY
of the
FEDERAL COMMUNICATIONS COMMISSION RULES

PART 73
RADIO BROADCAST SERVICES

The box below indicates the number and date of issuance of the most recent supplement to Part 73. Information and instructions concerning this change appear on the reverse side of this cover sheet.

The date which appears at the top of each page indicates the effective date of the current change.

To determine the extent and effect of the current changes on a page:

Material which has been deleted is shown as follows:

~~This material is deleted.~~

Material that has been added by a change is shown as follows:

This material is new.

A vertical bar along the left-hand margin indicates a new or completely revised paragraph, section, or Rule.

Please do not incorporate this change if the current number in your book is not **FCC/73-198**. All Rules Service Company change numbers are consecutive; please call our office for the previous change.

Additional copies of this Part and our service on FCC Parts 0, 1, 2, 5, 11, 13, 15, 17, 18, 19, 20, 21, 22, 24, 25, 26, 27, 68, 74, 76 & 78, 79, 80, 87, 90, 95, 97, 100 and 101 can be obtained from:

RULES SERVICE COMPANY
7615 Standish Place
Rockville, MD 20855
(301) 424-9402
FAX: (301) 762-7853
www.ruleserv.com

LATEST CHANGE RECORD		
Latest Change	Date of Issuance	Date of Incorporation/ Incorporator's Initials
FCC/73-199	September 15, 1998	

September 15, 1998

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

CHANGE SHEET NO. FCC/73-199 (page two)

This Change Sheet is issued in order to provide UP-TO-DATE pages incorporating recent changes to Part 73. The changes which have been made cover the following:

STREAMLINING THE EQUIPMENT AUTHORIZATION PROCESS

Effective: October 5, 1998 **Amendment/Dkt. No.:** 98-58[97-94]
Adopted: April 2, 1998 **63 No. 129 F.R. 36591**

The Commission is amending its rules to simplify the equipment authorization processes, deregulate the authorization requirements for certain types of equipment, and begin implementation of an electronic filing system for equipment authorization applications.

FILING INSTRUCTIONS

Examination of the instructions **BEFORE** filing will help keep your rules in order. Occasionally, more pages are removed than incorporated, or more pages incorporated than removed.

REMOVE PAGES

A-105

40.3 thru 40.6

564.3, 564.4

590.1 thru 592

Change Sheet No. FCC/73-198

INCORPORATE PAGES

A-105

40.3 thru 40.6

564.3, 564.4

590.1 thru 592

Change Sheet No. FCC/73-199

* * * *

Copyright © 1998 by Rules Service Company. All rights reserved. The material published in this looseleaf service is for the exclusive use of the subscriber. No part of this publication may be republished, resold, duplicated, or reproduced in any form or by any electronic means, including photocopying and information storage and retrieval systems, without prior written permission from Rules Service Company.

CHANGE RECORD

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

Subject	Eff. Date	Gov't Amdt. No.	RUSCO Chg. No.	Page No./FR. No.
1998 Biennial Regulatory Review—Filing Dates for the Commission's Equal Employment Opportunity Annual Employment Reports [§ 73.3612]	3/16/98	98-39	73-197	63-16906 No. 66
FM & TV Broadcast Stations [§§ 73.202; 73.606 Table of Allotments]	Various	Various	73-197	Various N/A
Technical Requirements To Enable Blocking of Video Programming Based on Program Ratings [§ 73.682]	5/26/98	98-36	73-197	63-20131 No. 78
1998 Biennial Regulatory Review—Streamlining of Radio Technical Rules [§§ 73.45; 73.54; 73.58; 73.68; 73.69; 73.151; 73.213; 73.258; 73.312; 73.313; 73.503; 73.561; 73.1350; 73.1560; 73.1680; 73.1750; 73.3542; 73.3544; 73.3549; 73.3617; Alpha Index]	7/22/98	98-117	73-198	63-33875 No. 119
Streamlining the Equipment Authorization Process [§§ 73.53; 73.1660; 73.1665]	10/5/98	98-58	73-199	63-36591 No. 129

[Next Page is No. B-1]

AN UP-TO-DATE COPY
of the
FEDERAL COMMUNICATIONS COMMISSION RULES

PART 73
RADIO BROADCAST SERVICES

The box below indicates the number and date of issuance of the most recent supplement to Part 73. Information and instructions concerning this change appear on the reverse side of this cover sheet.

The date which appears at the top of each page indicates the effective date of the current change.

To determine the extent and effect of the current changes on a page:

Material which has been deleted is shown as follows:

~~This material is deleted.~~

Material that has been added by a change is shown as follows:

This material is new.

A vertical bar along the left-hand margin indicates a new or completely revised paragraph, section, or Rule.

Please do not incorporate this change if the current number in your book is not FCC/73-197. All Rules Service Company change numbers are consecutive; please call our office for the previous change.

Additional copies of this Part and our service on FCC Parts 0, 1, 2, 5, 11, 13, 15, 17, 18, 19, 20, 21, 22, 24, 25, 26, 27, 74, 76 & 78, 79, 80, 87, 90, 95, 97, 100 and 101 can be obtained from:

RULES SERVICE COMPANY
7615 Standish Place
Rockville, MD 20855
(301) 424-9402
FAX: (301) 762-7853

LATEST CHANGE RECORD		
Latest Change	Date of Issuance	Date of Incorporation/ Incorporator's Initials
FCC/73-198	July 15, 1998	

July 15, 1998

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

CHANGE SHEET NO. FCC/73-198 (page two)

This Change Sheet is issued in order to provide UP-TO-DATE pages incorporating recent changes to Part 73. The changes which have been made cover the following:

1998 BIENNIAL REGULATORY REVIEW—STREAMLINING OF RADIO TECHNICAL RULES

Effective: July 22, 1998 **Amendment/Dkt. No.:** 98-117[98-93]
Adopted: June 11, 1998 **63 No. 119 F.R.** 33875

The Commission adopted a number of changes in this proceeding to promote greater technical flexibility in the FM service and to streamline and expedite the processing of applications in several services.

FILING INSTRUCTIONS

Examination of the instructions **BEFORE** filing will help keep your rules in order. Occasionally, more pages are removed than incorporated, or more pages incorporated than removed.

REMOVE PAGES

A-105
B-29 thru C-19
23, 24
41, 42
43 thru 48.5
76.3, 76.4
234.1, 234.2
239, 240
267 thru 268.2
312.1
322.3 thru 324
574.3, 574.4
585, 586
592.3, 592.4
601, 602
703 thru 704.1
713, 714
779, 780
Change Sheet No. FCC/73-197

INCORPORATE PAGES

A-105
B-29 thru C-23
23, 24
41, 42
43 thru 48.5
76.3, 76.4
234.1, 234.2
239, 240
267 thru 268.2
312.1
322.3 thru 324
574.3, 574.4
585, 586
592.3, 592.4
601, 602
703 thru 704.1
713, 714
779, 780
Change Sheet No. FCC/73-198

* * * *

Copyright © 1998 by Rules Service Company. All rights reserved. The material published in this looseleaf service is for the exclusive use of the subscriber. No part of this publication may be republished, resold, duplicated, or reproduced in any form or by any electronic means, including photocopying and information storage and retrieval systems, without prior written permission from Rules Service Company.

CHANGE RECORD

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

Subject	Eff. Date	Gov't Amdt. No.	RUSCO Chg. No.	Page No./FR. No.
Implementation of Sections 202(c)(1) and 202(e) of the Telecommunications Act of 1996 (National Broadcast Television Ownership and Dual Network Operations) [§§ 73.658; 73.3555]	3/15/96	96-91	73-188	61-10691 No. 52
Implementation of Sections 204(a) and 204(c) of the Telecommunications Act of 1996 (Broadcast License Renewal Procedures [§§ 73.561;73.1020;73.3516; 73.3523;73.3584;73.3591])	4/25/96	96-172	73-189	61-18289 No. 81
FM & TV Broadcast Station [§§ 73.202;73.606 Table of Allotments]	Various	Various	73-189	Various N/A
Implementation of Section 403(l) of the Telecommunications Act of 1996 (Silent Station Authorizations) [§§ 73.561;73.733; 73.761;73.1020;73.1615; 73.1635;73.1740;73.1750]	6/6/96	96-218	73-190	61-28766 No. 110
Digital Data Transmission Within the Video Portion of TV Broadcast Station Transmissions [§§ 73.621; 73.646;73.682;73.1207;73.3613]	7/10/96	96-274	73-190	61-36302 No. 133
Broadcast Services; Children's Television [§§ 73.671; 73.672; 73.673; 73.3500; 73.3526]	OMB Pending	96-335	73-191	61-43981 No. 167
Radio Broadcast Services; FCC Corrections [§§ 73.1750; 73.3571]	4/19/92	N/A	73-191	61-46563 No. 172
Broadcast License Terms [§§ 73.733;73.1020]	3/7/97	97-17	73-192	62-5339 No. 24

CHANGE RECORD

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

Subject	Eff. Date	Gov't Amdt. No.	RUSCO Chg. No.	Page No./FR. No.
Broadcast Services; Television Broadcast Stations; TV Transmission Standards [§73.682]	5/27/97	96-493	73-193	62-14006 No. 57
Advanced Television Systems and Their Impact on Existing Television Service [§§ 73.622;73.623]	6/13/97	97-115	73-194	62-26684 No. 93
Advanced Television Systems [§§ 73.624;73.625]	6/16/97	97-116	73-194	62-26966 No. 95
Minimum Distance Separations to Mexican Broadcast Stations [§ 73.207]	9/25/97	97-272	73-195	62-50256 No. 186
Grandfathered Short-Spaced FM Stations [§§ 73.213; 73.4235]	11/25/97	97-276	73-195	62-50518 No. 187
Certain Minor Changes in Broadcast Facilities Without a Construction Permit [§§ 73.14; 73.310; 73.316; 73.525; 73.681; 73.685; 73.1125; 73.1620; 73.1675; 73.1690; 73.1692; 73.3500; 73.3536; 73.3537; 73.3538; 73.3544]	12/1/97	97-290	73-195	62-51052 No. 189
FM & TV Broadcast Station [§§ 73.202;73.606 Table of Allotments]	Various	Various	73-195	Various N/A
Arecibo Coordination Zone [§ 73.1030]	12/26/97	97-347	73-196	62-55525 No. 207
Advanced Television Systems and Their Impact on the Existing Television Service [§§ 73.622; 73.623; 73.625; 73.3572]	4/20/98	98-24	73-197	63-13546 No. 54
Advanced Television Systems [§ 73.624]	5/1/98	98-23	73-197	63-15774 No. 62

CHANGE RECORD

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

Subject	Eff. Date	Gov't Amdt. No.	RUSCO Chg. No.	Page No./FR. No.
1998 Biennial Regulatory Review—Filing Dates for the Commission's Equal Employment Opportunity Annual Employment Reports [§ 73.3612]	3/16/98	98-39	73-197	63-16906 No. 66
FM & TV Broadcast Stations [§§ 73.202; 73.606 Table of Allotments]	Various	Various	73-197	Various N/A
Technical Requirements To Enable Blocking of Video Programming Based on Program Ratings [§ 73.682]	5/26/98	98-36	73-197	63-20131 No. 78
1998 Biennial Regulatory Review—Streamlining of Radio Technical Rules [§§ 73.45; 73.54; 73.58; 73.68; 73.69; 73.151; 73.213; 73.258; 73.312; 73.313; 73.503; 73.561; 73.1350; 73.1560; 73.1680; 73.1750; 73.3542; 73.3544; 73.3549; 73.3617; Alpha Index]	7/22/98	98-117	73-198	63-33875 No. 119

[Next Page is No. B-1]

AN UP-TO-DATE COPY
of the
FEDERAL COMMUNICATIONS COMMISSION RULES

PART 73

RADIO BROADCAST SERVICES

The box below indicates the number and date of issuance of the most recent supplement to Part 73. Information and instructions concerning this change appear on the reverse side of this cover sheet.

The date which appears at the top of each page indicates the effective date of the current change.

To determine the extent and effect of the current changes on a page:

Material which has been deleted is shown as follows:

~~This material is deleted.~~

Material that has been added by a change is shown as follows:

This material is new.

A vertical bar along the left-hand margin indicates a new or completely revised paragraph, section, or Rule.

Please do not incorporate this change if the current number in your book is not FCC/73-194. All Rules Service Company change numbers are consecutive; please call our office for the previous change.

Additional copies of this Part and our service on FCC Parts 0, 1, 2, 5, 11, 13, 15, 17, 18, 19, 20, 21, 22, 24, 25, 26, 27, 74, 76 & 78, 80, 87, 90, 95, 97, 100 and 101 can be obtained from:

RULES SERVICE COMPANY
7615 Standish Place
Rockville, MD 20855
(301) 424-9402
FAX: (301) 762-7853

LATEST CHANGE RECORD		
Latest Change	Date of Issuance	Date of Incorporation/ Incorporator's Initials
FCC/73-195	November 15, 1997	

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

CHANGE SHEET NO. FCC/73-195 (page two)

This Change Sheet is issued in order to provide UP-TO-DATE pages incorporating recent changes to Part 73. The changes which have been made cover the following:

MINIMUM DISTANCE SEPARATIONS TO MEXICAN BROADCAST STATIONS

Effective: September 25, 1997 **Amendment/Dkt. No.:** 97-272/[N/A]
Adopted: July 31, 1997 **62 No. 186 F.R. 50256**

This action modifies the Commission's rules to relax the minimum distance separations between U.S. FM broadcast stations or allotments as compared to Mexican FM broadcast stations or allotments.

GRANDFATHERED SHORT-SPACED FM STATIONS

Effective: November 25, 1997 **Amendment/Dkt. No.:** 97-276/[96-120]
Adopted: August 4, 1997 **62 No. 187 F.R. 50518**

This action modifies a current rule to permit certain short-spaced stations to make changes based on a showing that no interference is caused or received, or if interference already exists, based on the total of such interference not being increased.

CERTAIN MINOR CHANGES IN BROADCAST FACILITIES WITHOUT A CONSTRUCTION PERMIT

Effective: December 1, 1997 **Amendment/Dkt. No.:** 97-290/[96-58]
Adopted: August 14, 1997 **62 No. 189 F.R. 51052**

This action adopts proposals made by the Commission in the *Notice of Proposed Rulemaking* (61 FR 15439, April 8, 1996) in this proceeding to streamline the Commission's rules and processes applicable to broadcast stations.

RADIO BROADCAST SERVICES; ALLOTMENTS

Various FM and TV Allotments have been either added or changed. Sections 73.202 and 73.606 are affected.

* * * *

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

RADIO BROADCAST SERVICES

Subject	Eff. Date	Gov't Amdt. No.	RUSCO Chg. No.	F.R. Page No.
Elimination of Unnecessary Broadcast Regulation [§§ 73.1205;73.4065;73.4155]	5/7/86	86-111	73-134	51-11914
Office of Science and Technology [§ 73.681]	4/14/86	85-670	73-134	51-12614
AM-FM Program Duplication [§ 73.242]	5/12/86	86-132	73-134	51-12616
Filing of Contracts [§ 73.3616(d)]	3/24/86	Edit. Amdt.	73-135	51-15785
Technical and Operational Regulations [§§ 73.293;73.316;73.317;73.319;73.322;73.558;73.597;73.1225]]	6/9/86	86-211	73-135	51-17027
Oversight of the Radio and TV Broadcast Rules [§§ 73.182;73.603; 73.1590; 73.1660; 73.1665; 73.3536; 73.3555; 73.3578]	5/20/86	Edit. Amdt.	73-135	51-18448
Applications for Hearing [§§ 73.3522;73.3594]	5/29/86	86-241	73-135	51-19346
Program Record Keeping [§ 73.3526(a)(9),(c)]	6/27/86	86-222	73-135	51-20291
Local Public Inspection File [§ 73.3526(a)(8)]	6/27/86	Edit. Amdt.	73-135	51-20292
Groundwave Field Strength Graphs [§ 73.184(Graphs)]	1/1/87	Edit. Amdt.	73-136	51-23764
Oversight of the Radio and TV Broadcast Rules [§§ 73.45;73.54;73.207;73.525;73.684;73.1570;73.1690;73.4107;73.4163;73.4266]	7/22/86	Edit. Amdt.	73-136	51-26248
FM Broadcast Station [§ 73.202(b) Table of Allotments]	Various	Various	73-136	Various
Channel Assignments under the U.S.A.-Mexico FM Broadcast Agreement [§ 73.504(a) California]	6/6/86	85-177	73-136	51-20650

CHANGE RECORD

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

Subject	Eff. Date	Gov't Amdt. No.	RUSCO Chg. No.	F.R. Page No.
TV Broadcast Station [§ 73.606(b) Table of Assignments]	Various	Various	73-136	Various
Oversight of the Radio and TV Broadcast Rules [§§ 73.25; 73.1670; 73.1675; 73.3500; 73.3536; 73.3537; 73.3570; 73.4115]	9/9/86	Edit. Amdt.	73-137	51-32087
TV Transmission Standards [§ 73.682(a)(23)]	10/27/86	86-385	73-137	51-34620
Alphabetical Index	9/30/86	Edit. Amdt.	73-137	51-34620
Sampling Systems for Antenna Monitors [§ 73.68]	11/24/86	86-433	73-138	51-40434
Broadcast Transmitters [§§ 73.127; 73.1225; 73.1660; 73.1690]	12/18/86	86-484	73-138	51-41628
Oversight of the Radio and TV Broadcast Rules [§§ 73.202; 73.606; 73.607; 73.609; 73.610; 73.612; 73.3516; 73.3572]	12/8/86	Edit. Amdt.	73.138	51-44069
AM Groundwave Curves [§ 73.184]	2/1/87	Edit. Amdt.	73-139	51-45891
Ownership Interests [§ 73.3555(Note 2); 73.3615(a)]	2/12/87	86-410	73.139	52-1630
Fee Collection Program [§§ 73.943; 73.1010; 73.3517; 73.3550]	4/1/87	86-562	73-140	52-5285
Subscription TV [§§ 73.641; 73.642]	4/1/87	86-526	73-140	52-6152
Low Power TV and TV Translator [§§ 73.3564; 73.3572; 73.3584]	4/13/87	87-44	73-140	52-7420
Power and Antenna Height Requirements [§§ 73.206; 73.211]	4/16/87	Edit. Amdt.	73-140	52-8259
Fee Collection Program [§ 73.3512]	4/1/87	87-99	73-140	52-10226
Oversight of the Radio and TV Broadcast Rules [§§ 73.37; 73.51; 73.182; 73.186; 73.189; 73.201; 73.311; 73.315]	4/2/87	Edit. Amdt.	73-140	52-10568

CHANGE RECORD

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

Subject	Eff. Date	Gov't Amdt. No.	RUSCO Chg. No.	F.R. Page No.
Oversight of the Radio and TV Broadcast Rules [§§ 73.24; 73.182;73.611;73.699;73.3598; 73.4107;73.4108;73.4140]	4/10/87	Edit. Amdt.	73-140	52-11653
AM Broadcasting [§§ 73.21;73.3571]	3/24/87	86-79	73-141	52-21308
Main Studio Location [§§ 73.1120;73.1125;73.1130;73.1690; 73.3526;73.3527;73.3538; 73.3580;73.3594]	7/16/87	87-137	73-141	52-21684
Station License Period [§ 73.1020(a)]	7/8/87	Edit. Amdt.	73-142	52-25603
Oversight of the Radio and TV Broadcast Rules [§§ 73.182;73.318;73.504;73.682;73.933;73.1202]	7/9/87	Edit. Amdt.	73-142	52-25865
Equal Opportunity Practices [§§ 73.2080;73.3500]	8/17/87	87-136	73-142	52-26683
Main Studio Location [§§ 73.1125;73.3526(d);73.3527(d)]	stayed	87-137	73-142	52-28825
FM Broadcast Station [§ 73.202 (b) Table of Allotments]	Various	Various	73-142	Various
Channel Assignments under the U.S.A.-Mexico FM Broadcast Agreement [§ 73.504(a) New Mexico]	9/21/87	86-475	73-142	52-29853
TV Broadcast Station [§ 73.606 (b) Table of Allotments]	Various	Various	73-142	Various
Alphabetical Index	10/1/87	Edit. Amdt.	73-143	52-37315
FM Broadcast Parameters [§§ 73.208;73.210;73.211;73.213;73.313; 73.1030;73.1690]	11/9/87	87-296	73-143	52-37786
FM Broadcast Parameters [§§ 73.208;73.210;73.211]	11/9/87	87-296	73-144	52-39920
Call Sign Assignments [§ 73.3550]	12/14/87	87-337	73-144	52-43078

CHANGE RECORD

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

Subject	Eff. Date	Gov't Amdt. No.	RUSCO Chg. No.	F.R. Page No.
U.S. Mexico Border Area [§§ 73.202; 73.501; 73.504; 73.509]	12/18/87	87-339	73-144	52-43764
Oversight of the Radio and TV Broadcast Rules [§§ 73.211; 73.506; 73.3500; Alphabetical Index]	1/6/88	Edit. Amdt.	73-144	52-47567
Daytime-only and Class III Stations [§§ 73.21;73.24;73.25; 73.26;73.29;73.31;73.99;73.182; 73.1740;73.3571]	12/1/87	87-356	73-144	52-48268
FM Broadcast Station [§ 73.202(b) Table of Allotments]	Various	Various	73-144	Various
TV Broadcast Station [§ 73.606 (b) Table of Allotments]	Various	Various	73-144	Various
FM and TV Booster Stations [§§ 73.1001;73.1010;73.3500;73.3521;73.3522;73.3533;73.3536; 73.3564;73.3572;73.3580;73.3584; 73.3598]	9/21/87	87-244	73-145	52-31398
Presunrise Service [§ 73.99]	1/22/88	87-346	73-145	52-49161
Daytime-only and Class III Stations [§ 73.21(a)(2)(ii)]	12/11/87	87-356 (Correction)	73-145	53-1030
Oversight of the Radio and TV Broadcast Rules [§§ 73.58;73.1010;73.3584;73.3615; Alphabetical Index]	2/25/88	Edit. Amdt.	73.145	53-2497
Public File Rule [§ 73.3527]	5/31/88	88-52	73-146	53-15224
Emergency Broadcast System [§§73.909;73.910;73.911;73.912; 73.918;73.922;73.926;73.927;73.931;73.932;73.933;73.935;73.936; 73.937;73.942;73.961;73.962]	5/31/88	88-39	73-146	53-15395
Power and Antenna Height Requirements [§ 73.211]	5/13/88	88-152	73-146	53-17040
Record Retention Periods [§§ 73.3526;73.3527]	5/23/88	88-98	73-146	53-17046
FM Broadcast Station [§ 73.202 (b) Table of Allotments]	Various	Various	73-146	Various

CHANGE RECORD

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

Subject	Eff. Date	Gov't Amdt. No.	RUSCO Chg. No.	F.R. Page No.
TV Broadcast Station [§ 73.606(b) Table of Allotments]	Various	Various	73-146	Various
FM and TV Booster Stations [§§ 73.3522;73.3580]	9/21/87	87-244 (Correction)	73-147	53-26074
Program Exclusivity [§ 73.658(m)]	8/18/88	88-180	73-147	53-27167
Main Studio Rules [§§ 73.3526;73.3527]	8/29/88	88-235	73-148	53-32899
Radio and TV Broadcasting Corrections[§§ 73.3597; 73.3615]	9/22/88	Edit. Amdt.	73-148	53-36786
FCC Forms[§§ 73.3500; 73.3533;73.3534;73.3536]	9/22/88	Edit. Amdt.	73-148	53-36787
Multiple Ownership [§ 73.3555(a)]	10/27/88	Edit. Amdt.	73-149	53-51780
Transmission of Obscene or Indecent Language [§ 73.3999]	1/27/89	88-416	73-149	53-52425
Power and Antenna Height Requirements [§ 73.511(a)]	1/25/88	88-423	73-149	54-3601
Multiple Ownership [§ 73.3555(a)]	10/27/88	88-343	73-150	54-8334
Cross-Ownership Rule [§ 73.3555(NOTES 4 & 7)]	3/31/89	88-407	73-150	54-8744
TV Broadcast Stations [§§ 73.208;73.653;73.663; 73.687;73.698;73.699;73.4272]	4/13/89	89-43	73-150	54-9804
FM Table of Allotments [§§ 73.203;73.3573(a)(1)]	5/1/89	89-14	73-150	54-11953
Network Affiliation Agreements[§ 73.658]	5/15/89	89-89	73-150	54-14960
Technical Parameters for FM Allocation[§§ 73.207; 73.213;73.610]	5/17/89	89-62	73-150	54-14961

CHANGE RECORD

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

Subject	Eff. Date	Gov't Amdt. No.	RUSCO Chg. No.	F.R. Page No.
Emergency Broadcast System[§§ 73.912;73.926; 73.932;73.962]	2/15/89	89-36	73-150	54-15195
FM Station Class C3[§§ 73.207; 73.210;73.211;73.506;73.610]	6/1/89	89-107	73-151	54-16363 54-19374
AM Transmission System Emission Limitations[§ 73.44]	6/30/90	89-118	73-151	54-19572
Lottery Information Regarding Indian Gaming[§ 73.1211(c)(3)]	6/14/89	89-124	73-151	54-20855
License Renewal Process [§§ 73.3523;73.3524;73.3525; 73.3568]	6/28/89	89-108	73-151	54-22595
Fm Broadcast Station [§ 73.202(b) Table of Allotments]	Various	Various	73-152	Various
TV Broadcast Station [§ 73.606(b) Table of Allotments]	Various	Various	73-152	Various
Short-spaced Station Assignments[§§ 73.207; 73.209;73.215;73.311; 73.316]	6/26/89	88-406	73-152	54-9800 54-15992 54-30464
License Renewal Process [§§ 73.3523;73.3524;73.3525; 73.3568]	8/7/89	89-108	73-152	54-31838
Multiple Ownership [§ 73.3555(NOTE 7)]	8/2/89	89-256	73-152	54-32639
FM Broadcast Service [§§ 73.207;73.210;73.211; 73.213;73.215;73.610;73.1690]	10/2/89	89-232	73-153	54-35335
Emergency Broadcast System[§ 73.937]	5/31/88	88-39 Correction	73-153	54-39534
International Agreements [§§ 73.21;73.25;73.28;73.183; 73.1650;73.3570]	9/28/89	Edit. Amdt.	73-153	54-39736

CHANGE RECORD

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

Subject	Eff. Date	Gov't Amdt. No.	RUSCO Chg. No.	F.R. Page No.
Program Exclusivity [§ 73.658(m)(NOTE 1)]	8/18/88	88-180 (Correction)	73-154	54-46900
FM Allotments [§ 73.202]	Various	Various	73-155	Various
Applications [§§ 73.3571; 73.3572;73.3573]	5/9/90	90-125	73-156	55-19264
Lotteries [§ 73.1211]	5/7/90	90-178	73-156	55-18888
FM Allotments [§ 73.202]	Various	Various	73-157	Various
Commission Licensing Process [§§ 73.1015;73.3524; 73.3588;73.3589;73.3584]	10/4/90	90-191	73-157	55-28912
FM Allotments [§ 73.202]	Various	Various	73-158	Various
FM Allotments [§ 73.202]	Various	Various	73-159	Various
Comparative Hearing Process for New Broadcast Applicants [§ 73.1620;73.3571;73.3573]	2/13/91	90-401	73-160	56-787
Broadcast Service; Amend- ment of the Rules Concerning FM Translator Stations [§ 73.3573]	3/1/91	90-375	73-160	55-50690
Broadcast Service, Abuse of the Commission's Licensing Processes [§ 73.3525]	3/21/91	90-411	73-160	56-373
Broadcast Services; Financial interest and Syndication Rules [§§ 73.658;73.659;73.660; *73.661;73.662;*73.3526]	7/8/91 *7/6/91	91-114 91-114	73-161 73-161	56-26242 56-26242
Comparative Hearing Process for New Applicants [§ 73.1620]	8/1/91	91-154	73-161	56-25635
Broadcast Children's TV Programming	10/1/91	91-113	73-161	56-19611
FM/TV Allotments [§§ 73.202;73.606]	Various	- - - -	73-161	Various

CHANGE RECORD**FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73**

Subject	Eff. Date	Gov't Amdt. No.	RUSCO Chg. No.	F.R. Page No.
Construction Permits [§ 73.3525]	8/1/91	91-155	73-161	56-28096
FM/TV Allotments [§§ 73.202;73.606]	Various	----	73-162	Various
Comparative Hearing Process for New Broadcast Applicants; Correction.[§ 73.3572]	1/9/91	Correction	73-162	56-33720
Multiple Ownership [§ 73.3555]	8/14/91	87-8	73-162	56-31876
Children's Television Programming[§ 73.520]	10/1/91	91-248	73-163	56-42707
UHF Television Channels 14 and 69[§ 73.687(e)]	10/15/91	91-241	73-163	56-46729
Children's Television Commercial Limitations [Various]	1/1/92	91-292	73-163	56-48736
Editorial Amendments [Various]	10/1/91	Edit. Amdt	73-163	56-49707
FM/TV Allotments [§§ 73.202;73.606]	Various	-----	73-164	Various
Grandfathered Short- Spaced Stations[§ 73.213]	7/15/91	91-128	73-164	27424
Broadcast Services; Evaluation of the Syndication and Financial Interest Rules [§§ 73.659;73.660;73.662; 73.3526]	1/8/92	91-336	73-164	64207
Policies Regarding Short- spaced FM Assignments [§§ 73.207;73.215;73.316]	12/19/91	91-273	73-165	56-57290
FCC: Codification of Political Programming Policies [§ 73. 1940;73.1941;73.1942;73.1943; 73.1944;17.1212]	1/4/92	91-403	73-165	57-189

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

Subject	Eff. Date	Gov't Amdt. No.	RUSCO Chg. No.	F.R. Page No.
Radio Broadcast Service, AM Technical Assignment Criteria [§§ 73.14;73.21;73.22;73.23;73.24; 73.25;73.26;73.27;73.28;73.29;73.30;73.35;73.37;73.53; 73.68;73.69; 73.72;73.88;73.99;73.150;73.151; 73.152;73.153;73.182;73.183;73.184;73.185;73.187;73.189;73.190; 73.1030;73.1125;73.1150;73.1201; 73.1570;73.1650;73.1665;73.1705; 73.1725;73.1740;73.3516;73.3517; 73.3550;73.3555;73.3564;73.3570; 73.3571;73.3598;73.4160;73.4255]	4/19/92	91-303	73-166	56-64856
Sponsorship Identification Requirements [§ 73.1212]	4/1/92	92-55	73-166	57-8278
FM/TV Allotments [§§ 73.202;73.606]	Various	-----	73-166	Various
Broadcast Services; License Renewal Announcement Requirements [§ 73.3580]	6/26/92	92-165	73-166	57-14646
Radio Broadcast Services[§§ 73.3526; 73.3555; 73.3556;73.3613]	8/1/92	91-140	73-167	57-18089
Cable Television Service; Political Programming Policies [§ 73.1940;73.1942]	7/22/92	92-210	73-167	57-27705
Broadcast Services; Broadcast Hoaxes [§ 73.1217]	7/27/92	92-208	73-168	57-28638
Processing Procedures for Commercial FM Broadcast Applications [§§ 73.3522; 73.3564]	8/7/92	92-328	73-168	57-34872
Final rule; deferral of effective date. [§§ 73.3526; 73.3555;73.3556;73.3613]	7/30/92	92-351	73-168	57-35763
Radio Broadcast Service; Conflicts Between Applications and Petitions for Rulemaking to Amend the FM Table of Allotments [§ 73.208]	9/11/92	92-329	73-168	57-36018

CHANGE RECORD

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

Subject	Eff. Date	Gov't Amdt. No.	RUSCO Chg. No.	F.R. Page No.
Radio Broadcast Service, AM Technical Assignment Criteria [§ 73.37;73.53;73.99;73.150; 73.182;73.183;73.184;73.189]	9/16/92	Correction	73-169	57-43290
Revision of Radio Rules and Policies [§ 73.3526;73.3555; 73.3556;73.3613]	9/16/92	92-361	73-169	57-42701
Contour Protection for Shore-Spaced Assignments [§ 73.215]	11/9/92	92-1325	73-169	57-46325
Broadcast Services; Editorial Amendments to the Rules [§§ 73.232;73.295;73.310;73.313; 73.319;73.644;73.1010;73.1125; 73.1225;73.1620;73.3500]	10/23/92	92-1314	73-169	57-48332
Enforcement of Prohibitions Against Broadcast Indecency In 18 U.S.C. 1464 [§ 73.3999]	3/29/93	93-42	73-171	58-5937
Editorial Corrections	-----	-----	73-172	-----
Broadcast Services; Syndication and Financial Interest Rules[73.659;73.660; 73.662;73.3526]	6/5/93	93-179	73-173	58-28927
Network Television Program Ownership and Syndication Reports[73.661]	OMB PENDING	93-179	73-173	58-28927
Broadcast Services;AM Radio[73.30;73.99;73.182]	6/11/93	93-198	73-173	58-27948
TV Transmission Standards [73.682;73.699]	6/30/93	93-235	73-173	58-29981
FM/TV Allotments [§§73.202;73.606]	Various	Various	73-174	Various
Reference Points and Distance Computations [§73.208]	8/18/93	93-339	73-174	58-38536

CHANGE RECORD

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

Subject	Eff. Date	Gov't Amdt. No.	RUSCO Chg. No.	Page No./FR. No.
Applications [§§73.203;73.3573]	8/18/93	93-299	73-174	58-38534
Equal Employment Opportunities[§73.2080(d)]	9/8/93	93-334	73-174	58-42247
Metric Conversion [§§73.312;73.316;73.501; 73.681;73.685;72.1820;]	9/24/93	93-184	73-175	58-44892
FCC Corrections	10/1/93	DA-93-1159	73-175	58-51250
Financial Interest and Syndication Rules [§§73.660;73.661;73.663]	12/29/93	93-458	73-176	58-62547
AM Stereophonic Broadcasting[§73.128]	3/21/94	93-485	73-177	58-66300 No. 242
Allotments FM & TV [§§73.202;73.606]	Various	Various	73-177	Various N/A
Uses [§ 73.1941]	4/28/94	94-1	73-178	59-14567 No. 59
LPTV[§§ 73.3522;73.3550; 73.3564;74.3591]	6/20/94 8/19/94	94-120	73-179	59-31552 No. 117
Broadcast Services [§§73.4017;73.4050; 73.4107;73.4163; 73.4170;73.4180; 73.4185;73.4190; 73.4255;73.4267; 73.4280]	10/14/94	94-1088	73-180	59-52086 No. 198
Cable Act of 1992-Must-Carry and Retransmission Consent Provisions[§§73.3526; 73.3527]	OMB Pending	94-251	73-181	59-62330 No. 232
Revision of Radio Rules and Policies[§73.3555]	1/5/95	94-267	73-181	59-62609 No. 233
EAS Part 11 [§§ 73.900;73.1207; 73.1250;73.1820;73.3549;73.4097]	1/27/95	94-288	73.-182	59-67090 No. 248
LPTV & FM License Renewal [§§ 73.1020;73.3500]	12/20/94	94-259	73-183	59-63049 No. 234

CHANGE RECORD

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

Subject	Eff. Date	Gov't Amdt. No.	RUSCO Chg. No.	Page No. FR.	No./No.
Broadcast Services; Television Station Ownership [§73.658]	4/26/95	95-97	73-183	60-15688	
FM & TV Broadcast Station [§§73.202;73.606 Table of Allotments]	Various	Various	73-184	Various	N/A
Network Financial Interest and Syndication Rules [§§73.659;73.660;73.661;73.662; 73.663]	9/21/95	95-382	73-185	60-48907	No. 183
Broadcast Indecency [§73.3999]	8/28/95	95-346	73-186	60-44439	No. 166
Radio Broadcast Services; Television Program Practices [§73.658(k)]	8/30/96	95-314	73-186	60-44773	No. 167
Broadcast Station Operator Requirements[§§73.53; 73.57;73.62;73.69;73.691;73.757; 73.764;73.1010;73.1230; 73.1300;73.1350;73.1400; 73.1410;73.1500;73.1550; 73.1580;73.1635;73.1820; 73.1860;73.1870]	12/1/95	95-412	73-186	60-55476	No. 211
Emergency Broadcast/ Alert System[§§73.900; 73.1250(h)]	12/6/95	95-420	73-186	60-55996	No. 214
Streamlining the Antenna Structure Clearance Procedure and Revision of the Rules Concerning Construction, Marking, and Lighting of Antenna Structures [§§73.1213;73.1690;73.3533]	3/7/96	95-473	73-187		61-4359 No. 25
Reorganization of the Compliance and Information Bureau [§ 73.1030]	2/9/96	95-423	73-188	61-8475	No. 44
Implementation of Sections 202(a) and 202(b)(1) of the Telecommunications Act of 1996 (Broadcast Radio Ownership) [§ 73.3555]	3/15/96	96-90	73-188	61-10689	No. 52

CHANGE RECORD

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

Subject	Eff. Date	Gov't Amdt. No.	RUSCO Chg. No.	Page No./FR. No.
Implementation of Sections 202(c)(1) and 202(e) of the Telecommunications Act of 1996 (National Broadcast Television Ownership and Dual Network Operations) [§§ 73.658; 73.3555]	3/15/96	96-91	73-188	61-10691 No. 52
Implementation of Sections 204(a) and 204(c) of the Telecommunications Act of 1996 (Broadcast License Renewal Procedures [§§ 73.561;73.1020;73.3516; 73.3523;73.3584;73.3591])	4/25/96	96-172	73-189	61-18289 No. 81
FM & TV Broadcast Station [§§ 73.202;73.606 Table of Allotments]	Various	Various	73-189	Various N/A
Implementation of Section 403(l) of the Telecommunications Act of 1996 (Silent Station Authorizations) [§§ 73.561;73.733; 73.761;73.1020;73.1615; 73.1635;73.1740;73.1750]	6/6/96	96-218	73-190	61-28766 No. 110
Digital Data Transmission Within the Video Portion of TV Broadcast Station Transmissions [§§ 73.621; 73.646;73.682;73.1207;73.3613]	7/10/96	96-274	73-190	61-36302 No. 133
Broadcast Services; Children's Television [§§ 73.671; 73.672; 73.673; 73.3500; 73.3526]	OMB Pending	96-335	73-191	61-43981 No. 167
Radio Broadcast Services; FCC Corrections [§§ 73.1750; 73.3571]	4/19/92	N/A	73-191	61-46563 No. 172
Broadcast License Terms [§§ 73.733;73.1020]	3/7/97	97-17	73-192	62-5339 No. 24

CHANGE RECORD

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

Subject	Eff. Date	Gov't Amdt. No.	RUSCO Chg. No.	Page No./FR. No.
Broadcast Services; Television Broadcast Stations; TV Transmission Standards [§73.682]	5/27/97	96-493	73-193	62-14006 No. 57
Advanced Television Systems and Their Impact on Existing Television Service [§§ 73.622;73.623]	6/13/97	97-115	73-194	62-26684 No. 93
Advanced Television Systems [§§ 73.624;73.625]	6/16/97	97-116	73-194	62-26966 No. 95
Minimum Distance Separations to Mexican Broadcast Stations [§ 73.207]	9/25/97	97-272	73-195	62-50256 No. 186
Grandfathered Short-Spaced FM Stations [§§ 73.213; 73.4235]	11/25/97	97-276	73-195	62-50518 No. 187
Certain Minor Changes in Broadcast Facilities Without a Construction Permit [§§ 73.14; 73.310; 73.316; 73.525; 73.681; 73.685; 73.1125; 73.1620; 73.1675; 73.1690; 73.1692; 73.3500; 73.3536; 73.3537; 73.3538; 73.3544]	12/1/97	97-290	73-195	62-51052 No. 189
FM & TV Broadcast Station [§§ 73.202;73.606 Table of Allotments]	Various	Various	73-195	Various N/A

[Next Page is No. B-1]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

SECTION
NUMBER

TITLE

PART 73

RADIO BROADCAST SERVICES

SUBPART A

AM BROADCAST STATIONS

73.1	SCOPE.
73.14	AM BROADCAST DEFINITIONS.
73.21	CLASSES OF AM BROADCAST CHANNELS AND STATIONS.
73.22	[DELETED].
73.23	AM BROADCAST STATION APPLICATIONS AFFECTED BY INTERNATIONAL AGREEMENTS.
73.24	BROADCAST FACILITIES; SHOWING REQUIRED.
73.25	CLEAR CHANNELS; CLASSES I AND II STATIONS.
73.26	REGIONAL CHANNELS; CLASS B AND CLASS D STATIONS.
73.27	LOCAL CHANNELS; CLASS C STATIONS.
73.28	ASSIGNMENT OF STATIONS TO CHANNELS.
73.29	CLASS C STATIONS ON REGIONAL CHANNELS.
73.30	PETITION FOR AUTHORIZATION OF AN ALLOTMENT IN THE 1605-1705 KHZ BAND.
73.31	ROUNDING OF NOMINAL POWER SPECIFIED ON APPLICATIONS.
73.33	ANTENNA SYSTEMS; SHOWING REQUIRED.
73.35	CALCULATION OF IMPROVEMENT FACTORS.
73.37	APPLICATIONS FOR BROADCAST FACILITIES, SHOWING REQUIRED.
73.44	AM TRANSMISSION SYSTEM EMISSION LIMITATIONS.
73.45	AM ANTENNA SYSTEMS.
73.49	AM TRANSMISSION SYSTEM FENCING REQUIREMENTS.
73.51	DETERMINING OPERATING POWER.
73.53	REQUIREMENTS FOR AUTHORIZATION OF ANTENNA MONITORS.
73.54	ANTENNA RESISTANCE AND REACTANCE MEASUREMENTS.
73.57	REMOTE READING ANTENNA AND COMMON POINT AMMETERS.
73.58	INDICATING INSTRUMENTS.
73.61	AM DIRECTIONAL ANTENNA FIELD STRENGTH MEASUREMENTS.
73.62	DIRECTIONAL ANTENNA SYSTEM TOLERANCES.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

SECTION NUMBER	TITLE
73.68	SAMPLING SYSTEMS FOR ANTENNA MONITORS.
73.69	ANTENNA MONITORS.
73.72	OPERATING DURING THE EXPERIMENTAL PERIOD.
73.88	BLANKETING INTERFERENCE.
73.99	PRESUNRISE SERVICE AUTHORIZATION (PSRA) AND POSTSUNSET SERVICE AUTHORIZATION (PSSA).
73.127	USE OF MULTIPLEX TRANSMISSION.
73.128	AM STEREOPHONIC BROADCASTING.
73.132	TERRITORIAL EXCLUSIVITY.
73.150	DIRECTIONAL ANTENNA SYSTEMS.
73.151	FIELD STRENGTH MEASUREMENTS TO ESTABLISH PERFORMANCE OF DIRECTIONAL ANTENNAS.
73.152	MODIFICATION OF DIRECTIONAL ANTENNA DATA.
73.153	FIELD STRENGTH MEASUREMENTS IN SUPPORT OF APPLICATIONS OR EVIDENCE AT HEARINGS.
73.154	AM DIRECTIONAL ANTENNA PARTIAL PROOF OF PERFORMANCE MEASUREMENTS.
73.157	ANTENNA TESTING DURING DAYTIME.
73.158	DIRECTIONAL ANTENNA MONITORING POINTS.
73.160	VERTICAL PLANE RADIATION CHARACTERISTICS, F(θ).
73.182	ENGINEERING STANDARDS OF ALLOCATION.
73.183	GROUNDWAVE SIGNALS.
73.184	GROUNDWAVE FIELD STRENGTH CHARTS.
73.185	COMPUTATION OF INTERFERING SIGNAL.
73.186	ESTABLISHMENT OF EFFECTIVE FIELD AT ONE KILOMETER.
73.187	LIMITATION ON DAYTIME RADIATION.
73.188	[DELETED].
73.189	MINIMUM ANTENNA HEIGHTS OR FIELD STRENGTH REQUIREMENTS.
73.190	ENGINEERING CHARTS AND RELATED FORMULAS.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

SECTION
NUMBER

TITLE

SUBPART B

FM BROADCAST STATIONS

73.201	NUMERICAL DESIGNATION OF FM BROADCAST CHANNELS.
73.202	TABLE OF ALLOTMENTS.
73.203	AVAILABILITY OF CHANNELS.
73.204	INTERNATIONAL AGREEMENTS AND OTHER RESTRICTIONS ON USE OF CHANNELS.
73.205	ZONES.
73.207	MINIMUM DISTANCE SEPARATION BETWEEN STATIONS.
73.208	REFERENCE POINTS AND DISTANCE COMPUTATIONS.
73.209	PROTECTION FROM INTERFERENCE.
73.210	STATION CLASSES.
73.211	POWER AND ANTENNA HEIGHT REQUIREMENTS.
73.212	ADMINISTRATIVE CHANGES IN AUTHORIZATIONS.
73.213	GRANDFATHERED SHORT-SPACED STATIONS.
73.215	CONTOUR PROTECTION FOR SHORT-SPACED ASSIGNMENTS.
73.220	RESTRICTIONS ON USE OF CHANNELS.
73.232	TERRITORIAL EXCLUSIVITY.
73.239	USE OF COMMON ANTENNA SITE.
73.258	INDICATING INSTRUMENTS.
73.267	DETERMINING OPERATING POWER.
73.277	PERMISSIBLE TRANSMISSIONS.

SECTION INDEX

Revised: April 2, 1987

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

**SECTION
NUMBER**

TITLE

73.293	USE OF FM MULTIPLEX SUBCARRIERS.
73.295	FM SUBSIDIARY COMMUNICATIONS SERVICES.
73.297	FM STEREOPHONIC SOUND BROADCASTING.
73.310	FM TECHNICAL DEFINITIONS.
73.311	FIELD STRENGTH CONTOURS.
73.312	TOPOGRAPHIC DATA.
73.313	PREDICTION OF COVERAGE.
73.314	FIELD STRENGTH MEASUREMENTS.
73.315	FM TRANSMITTER LOCATION.
73.316	FM ANTENNA SYSTEMS.
73.317	FM TRANSMISSION SYSTEM REQUIREMENTS.
73.318	FM BLANKETING INTERFERENCE.
73.319	FM MULTIPLEX SUBCARRIER TECHNICAL STANDARDS.
73.322	FM STEREOPHONIC SOUND TRANSMISSION STANDARDS.
73.333	ENGINEERING CHARTS.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

**SECTION
NUMBER**

TITLE

SUBPART C

NONCOMMERCIAL EDUCATIONAL FM BROADCAST STATIONS

73.501	CHANNELS AVAILABLE FOR ASSIGNMENT.
73.502	STATE-WIDE PLANS.
73.503	LICENSING REQUIREMENTS AND SERVICE.
73.504	CHANNEL ASSIGNMENTS IN THE MEXICAN BORDER AREA.
73.505	ZONES.
73.506	CLASSES OF NONCOMMERCIAL EDUCATIONAL FM STATIONS AND CHANNELS.
73.507	MINIMUM DISTANCE SEPARATIONS BETWEEN STATIONS.
73.508	STANDARDS OF GOOD ENGINEERING PRACTICE.
73.509	PROHIBITED OVERLAP.
73.510	ANTENNA SYSTEMS.
73.511	POWER AND ANTENNA HEIGHT REQUIREMENTS.
73.512	SPECIAL PROCEDURES APPLICABLE TO CLASS D NON-COMMERCIAL EDUCATIONAL STATIONS.
73.513	NONCOMMERCIAL EDUCATIONAL FM STATIONS OPERATING ON UNRESERVED CHANNELS.
*73.520	(SEE RULE 73.672 FCC CORRECTION]
73.525	TV CHANNEL 6 PROTECTION.
73.558	INDICATING INSTRUMENTS.
73.561	OPERATING SCHEDULE; TIME SHARING.
73.567	DETERMINING OPERATING POWER.

SECTION INDEX

¹Added: June 13, 1997; 97-115

²Added: June 16, 1997; 97-116

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

**SECTION
NUMBER**

TITLE

73.593 SUBSIDIARY COMMUNICATIONS SERVICES.
73.597 FM STEREOPHONIC SOUND BROADCASTING.
73.599 NCE-FM ENGINEERING CHARTS.

**SUBPART D
[RESERVED]**

SUBPART E

TELEVISION BROADCAST STATIONS

73.601 SCOPE OF SUBPART.
73.602 CROSS REFERENCE TO RULES IN OTHER PARTS.
73.603 NUMERICAL DESIGNATION OF TELEVISION CHANNELS.
73.606 TABLE OF ALLOTMENTS.
73.607 AVAILABILITY OF CHANNELS.
73.609 ZONES.
73.610 MINIMUM DISTANCE SEPARATIONS BETWEEN STATIONS.
73.611 REFERENCE POINTS AND DISTANCE COMPUTATIONS.
73.612 PROTECTION FROM INTERFERENCE.
73.614 POWER AND ANTENNA HEIGHT REQUIREMENTS.
73.615 ADMINISTRATIVE CHANGES IN AUTHORIZATIONS.
73.620 [RESERVED]
73.621 NONCOMMERCIAL EDUCATIONAL TV STATIONS.
¹73.622 DIGITAL TELEVISION TABLE OF ALLOTMENTS.
¹73.623 DTV APPLICATIONS AND CHANGES TO DTV ALLOTMENTS.
²73.624 DIGITAL TELEVISION BROADCAST STATIONS.
²73.625 DTV COVERAGE OF PRINCIPAL COMMUNITY AND ANTENNA SYSTEM.
73.635 USE OF COMMON ANTENNA SITE.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

SECTION NUMBER	TITLE
73.641	SUBSCRIPTION TV DEFINITIONS.
73.642	SUBSCRIPTION TV SERVICE.
73.643	SUBSCRIPTION TV OPERATING REQUIREMENTS.
73.644	SUBSCRIPTION TV TRANSMISSION SYSTEMS.
¹ 73.646	TELECOMMUNICATIONS SERVICE ON THE VERTICAL BLANKING INTERVAL AND IN THE VISUAL SIGNAL
73.653	OPERATION OF TV AURAL AND VISUAL TRANSMITTERS.
73.658	AFFILIATION AGREEMENTS AND NETWORK PROGRAM PRACTICES; TERRITORIAL EXCLUSIVITY IN NON -NETWORK PROGRAM ARRANGEMENTS.
73.659	[REMOVED AND RESERVED]
73.660	[REMOVED AND RESERVED]
73.661	[REMOVED AND RESERVED]
73.662	DEFINITIONS FOR TELEVISION PRIME TIME ACCESS RULES.
73.663	[REMOVED AND RESERVED]
73.664	DETERMINING OPERATING POWER.
73.665	USE OF TV AURAL BASEBAND SUBCARRIERS.
73.667	TV SUBSIDIARY COMMUNICATIONS SERVICES.
73.669	TV STEREOPHONIC AURAL AND MULTIPLEX SUBCARRIER OPERATION.
73.670	COMMERCIAL LIMITS IN CHILDREN'S PROGRAMS.
73.671	EDUCATIONAL AND INFORMATIONAL PROGRAMMING FOR CHILDREN.
¹ 73.672	[REMOVED AND RESERVED]
¹ 73.673	PUBLIC INFORMATION INITIATIVES REGARDING EDUCATIONAL AND INFORMATIONAL PROGRAMMING FOR CHILDREN.
73.681	DEFINITIONS.
73.682	TV TRANSMISSION STANDARDS.
73.683	FIELD INTENSITY CONTOURS.
73.684	PREDICTION OF COVERAGE.
73.685	TRANSMITTER LOCATION AND ANTENNA SYSTEM.
73.686	FIELD STRENGTH MEASUREMENTS.
73.687	TRANSMISSION SYSTEM REQUIREMENTS.
73.688	INDICATING INSTRUMENTS.
73.691	VISUAL MODULATION MONITORING.
73.698	TABLES.
73.699	TV ENGINEERING CHARTS.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

SECTION
NUMBER

TITLE

SUBPART F

INTERNATIONAL BROADCAST STATIONS

73.701	DEFINITIONS.
73.702	ASSIGNMENT AND USE OF FREQUENCIES.
73.703	GEOGRAPHICAL ZONES AND AREAS OF RECEPTION.
73.712	EQUIPMENT TESTS.
73.713	PROGRAM TESTS.
73.731	LICENSING REQUIREMENTS.
73.732	AUTHORIZATIONS.
73.733	NORMAL LICENSE PERIOD.
73.751	OPERATING POWER.
73.753	ANTENNA SYSTEMS.
73.754	FREQUENCY MONITORS.
73.755	MODULATION MONITORS.
73.756	TRANSMISSION SYSTEM REQUIREMENTS.
73.757	AUXILIARY TRANSMITTERS.
73.758	ALTERNATE MAIN TRANSMITTERS.
73.759	MODIFICATION OF TRANSMISSION SYSTEMS.
73.761	TIME OF OPERATION.
¹ 73.764	[REMOVED]
73.765	DETERMINING OPERATING POWER
75.766	MODULATION AND BANDWIDTH.

[Next Page is No. B-25]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

SECTION
NUMBER

TITLE

OTHER OPERATING REQUIREMENTS

73.781	LOGS.
73.782	RETENTION OF LOGS.
73.787	STATION IDENTIFICATION.
73.788	SERVICE; COMMERCIAL OR SPONSORED PROGRAMS.

SUBPART G

EMERGENCY BROADCAST SYSTEM

73.900	CROSS REFERENCES.
¹ 73.901—	
73.962	REDESIGNATED AS FCC PART 11

SECTION INDEX

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

**SECTION
NUMBER**

TITLE

SUBPART H

RULES APPLICABLE TO ALL BROADCAST STATIONS

73.1001	SCOPE.
73.1010	CROSS REFERENCE TO RULES IN OTHER PARTS.
73.1015	TRUTHFUL WRITTEN STATEMENTS AND RESPONSES TO COMMISSION INQUIRIES AND CORRESPONDENCE.
73.1020	STATION LICENSE PERIOD.
73.1030	NOTIFICATIONS CONCERNING INTERFERENCE TO RADIO ASTRONOMY, RESEARCH AND RECEIVING INSTALLATIONS.
73.1120	STATION LOCATION.
73.1125	STATION MAIN STUDIO LOCATION.
73.1150	TRANSFERRING A STATION.
73.1201	STATION IDENTIFICATION.
73.1202	RETENTION OF LETTERS RECEIVED FROM THE PUBLIC.
73.1206	BROADCAST OF TELEPHONE CONVERSATIONS.
73.1207	REBROADCASTS.
73.1208	BROADCAST OF TAPED, FILMED, OR RECORDED MATERIAL.
73.1209	REFERENCES TO TIME.
73.1210	TV/FM DUAL-LANGUAGE BROADCASTING IN PUERTO RICO.
73.1211	BROADCAST OF LOTTERY INFORMATION.
73.1212	SPONSORSHIP IDENTIFICATION; LIST RETENTION; RELATED REQUIREMENTS.
73.1213	ANTENNA STRUCTURE, MARKING AND LIGHTING.
73.1215	SPECIFICATIONS FOR INDICATING INSTRUMENTS.
73.1216	LICENSEE-CONDUCTED CONTESTS.
73.1217	BROADCAST HOAXES.
73.1225	STATION INSPECTIONS BY FCC.
73.1226	AVAILABILITY TO FCC OF STATION LOGS AND RECORDS.
73.1230	POSTING OF STATION LICENSE.
73.1250	BROADCASTING EMERGENCY INFORMATION.
73.1300	UNATTENDED STATION OPERATION.
73.1350	TRANSMISSION SYSTEM OPERATION.
73.1400	TRANSMISSION SYSTEM MONITORING AND CONTROL.
73.1510	EXPERIMENTAL AUTHORIZATIONS.
73.1515	SPECIAL FIELD TEST AUTHORIZATIONS.
73.1520	OPERATION FOR TESTS AND MAINTENANCE.
73.1530	PORTABLE TEST STATIONS. [DEFINITION].
73.1540	CARRIER FREQUENCY MEASUREMENTS.
73.1545	CARRIER FREQUENCY DEPARTURE TOLERANCES.
73.1550	[REMOVED].

[Next Page is No. B-29]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

**SECTION
NUMBER**

TITLE

73.1560	OPERATING POWER AND MODE TOLERANCES.
73.1570	MODULATION LEVELS: AM, FM, AND TV AURAL.
73.1580	TRANSMISSION SYSTEM INSPECTIONS.
73.1590	EQUIPMENT PERFORMANCE MEASUREMENTS.
73.1610	EQUIPMENT TESTS.
73.1615	OPERATION DURING MODIFICATION OF FACILITIES.
73.1620	PROGRAM TESTS.
73.1635	SPECIAL TEMPORARY AUTHORIZATIONS (STA).
73.1650	INTERNATIONAL AGREEMENTS.
73.1660	ACCEPTABILITY OF BROADCAST TRANSMITTERS.
73.1665	MAIN TRANSMITTERS.
73.1670	AUXILIARY TRANSMITTERS.
¹ 73.1675	AUXILIARY FACILITIES.
73.1680	EMERGENCY ANTENNAS.
73.1690	MODIFICATION OF TRANSMISSION SYSTEMS.
¹ 73.1692	BROADCAST STATION CONSTRUCTION NEAR OR INSTALLATION ON AN AM BROADCAST TOWER.
73.1695	CHANGES IN TRANSMISSION STANDARDS.
73.1700	BROADCAST DAY.
73.1705	TIME OF OPERATION.
73.1710	UNLIMITED TIME.
73.1715	SHARE TIME.
73.1720	DAYTIME.
73.1725	LIMITED TIME.
73.1730	SPECIFIED HOURS.
73.1735	AM STATION OPERATION PRE-SUNRISE AND POST-SUNSET.
73.1740	MINIMUM OPERATING SCHEDULE.
73.1745	UNAUTHORIZED OPERATION.
73.1750	DISCONTINUANCE OF OPERATION.
73.1800	GENERAL REQUIREMENTS RELATED TO THE STATION LOG.
73.1820	STATION LOG.
73.1835	SPECIAL TECHNICAL RECORDS.
73.1840	RETENTION OF LOGS.
73.1870	CHIEF OPERATORS.
73.1910	FAIRNESS DOCTRINE.
73.1920	PERSONAL ATTACKS.
73.1930	POLITICAL EDITORIALS.
73.1940	BROADCASTS BY CANDIDATES FOR PUBLIC OFFICE.
73.1941	EQUAL OPPORTUNITIES.
73.1942	CANDIDATE RATES.
73.1943	POLITICAL FILE.
73.2080	EQUAL EMPLOYMENT OPPORTUNITIES.

SECTION INDEX

¹July 22, 1998
98-117

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

**SECTION
NUMBER**

TITLE

73.3500	APPLICATION AND REPORT FORMS.
73.3511	APPLICATIONS REQUIRED.
73.3512	WHERE TO FILE; NUMBER OF COPIES.
73.3513	SIGNING OF APPLICATIONS.
73.3514	CONTENT OF APPLICATIONS.
73.3516	SPECIFICATION OF FACILITIES.
73.3517	CONTINGENT APPLICATIONS.
73.3518	INCONSISTENT OR CONFLICTING APPLICATIONS.
73.3519	REPETITIOUS APPLICATIONS.
73.3520	MULTIPLE APPLICATIONS.
73.3521	MUTUALLY EXCLUSIVE APPLICATIONS FOR LOW POWER TELEVISION, TELEVISION TRANSLATORS AND TELEVISION BOOSTER STATIONS.
73.3522	AMENDMENT OF APPLICATIONS.
73.3523	DISMISSAL OF APPLICATIONS IN RENEWAL PROCEEDINGS.
73.3524	[REDESIGNATED AS 73.3588].
73.3525	AGREEMENTS FOR REMOVING APPLICATION CONFLICTS.
73.3526	LOCAL PUBLIC INSPECTION FILE OF COMMERCIAL STATIONS.
73.3527	LOCAL PUBLIC INSPECTION FILE OF NONCOMMERCIAL EDUCATIONAL STATIONS.
73.3533	APPLICATION FOR CONSTRUCTION PERMIT OR MODIFICATION OF CONSTRUCTION PERMIT.
73.3534	APPLICATION FOR EXTENSION OF CONSTRUCTION PERMIT OR FOR CONSTRUCTION PERMIT TO REPLACE EXPIRED CONSTRUCTION PERMIT.
73.3535	APPLICATION TO MODIFY AUTHORIZED BUT UNBUILT FACILITIES, OR TO ASSIGN OR TRANSFER CONTROL OF AN UNBUILT FACILITY.
73.3536	APPLICATION FOR LICENSE TO COVER CONSTRUCTION PERMIT.
73.3537	APPLICATION FOR LICENSE TO USE FORMER MAIN ANTENNA AS AN AUXILIARY.
73.3538	APPLICATION TO MAKE CHANGES IN AN EXISTING STATION.
73.3539	APPLICATION FOR RENEWAL OF LICENSE.
73.3540	APPLICATION FOR VOLUNTARY ASSIGNMENT OR TRANSFER OF CONTROL.
73.3541	APPLICATION FOR INVOLUNTARY ASSIGNMENT OF LICENSE OR TRANSFER OF CONTROL.
73.3542	APPLICATION FOR EMERGENCY AUTHORIZATION.
73.3543	APPLICATION FOR RENEWAL OR MODIFICATION OF SPECIAL SERVICE AUTHORIZATION.
73.3544	APPLICATION TO OBTAIN A MODIFIED STATION LICENSE.
73.3545	APPLICATION FOR PERMIT TO DELIVER PROGRAMS TO FOREIGN STATIONS.
¹ 73.3549	REQUESTS FOR EXTENSION OF TIME TO OPERATE WITHOUT REQUIRED MONITORS, INDICATING INSTRUMENTS, AND EAS ENCODERS AND DECODERS.
73.3550	REQUESTS FOR NEW OR MODIFIED CALL SIGN ASSIGNMENTS.
73.3555	MULTIPLE OWNERSHIP.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

**SECTION
NUMBER**

TITLE

73.3556	DUPLICATION OF PROGRAMMING ON COMMONLY OWNED OR TIME BROKERED STATIONS.
73.3561	STAFF CONSIDERATION OF APPLICATIONS REQUIRING COMMISSION ACTION.
73.3562	STAFF CONSIDERATION OF APPLICATIONS NOT REQUIRING ACTION BY THE COMMISSION.
73.3564	ACCEPTANCE OF APPLICATIONS.
73.3566	DEFECTIVE APPLICATIONS.
73.3568	DISMISSAL OF APPLICATIONS.
73.3569	[RESERVED].
73.3570	[REDESIGNATED AS § 73.23].
73.3571	PROCESSING OF AM BROADCAST STATION APPLICATIONS.
73.3572	PROCESSING OF TV BROADCAST, LOW POWER TV, TV TRANSLATOR AND TV BOOSTER APPLICATIONS.
73.3573	PROCESSING FM BROADCAST STATION APPLICATIONS.
73.3574	PROCESSING OF INTERNATIONAL BROADCAST STATION APPLICATIONS.
73.3578	AMENDMENTS TO APPLICATIONS FOR RENEWAL, ASSIGNMENT OR TRANSFER OF CONTROL.
73.3580	LOCAL PUBLIC NOTICE OF FILING OF BROADCAST APPLICATIONS.
73.3584	PROCEDURE FOR FILING PETITIONS TO DENY.
73.3587	PROCEDURE FOR FILING INFORMAL OBJECTIONS.
73.3588	DISMISSAL OF PETITIONS TO DENY OR WITHDRAWAL OF INFORMAL OBJECTIONS.
73.3589	THREATS TO FILE PETITIONS TO DENY OR INFORMAL OBJECTIONS.
73.3591	GRANTS WITHOUT HEARING.
73.3592	CONDITIONAL GRANT.
73.3593	DESIGNATION FOR HEARING.
73.3594	LOCAL PUBLIC NOTICE OF DESIGNATION FOR HEARING.
73.3597	PROCEDURES ON TRANSFER AND ASSIGNMENT APPLICATIONS.
73.3598	PERIOD OF CONSTRUCTION.
73.3599	FORFEITURE OF CONSTRUCTION PERMIT.
73.3601	SIMULTANEOUS MODIFICATION AND RENEWAL OF LICENSE.
73.3603	SPECIAL WAIVER PROCEDURE RELATIVE TO APPLICATIONS.
73.3605	RETENTION OF APPLICATIONS IN HEARING STATUS AFTER DESIGNATION FOR HEARING.

SECTION INDEX

¹July 22, 1988
98-117

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

**SECTION
NUMBER**

TITLE

73.3612	ANNUAL EMPLOYMENT REPORT.
73.3613	FILING OF CONTRACTS.
73.3615	OWNERSHIP REPORTS.
¹ 73.3617	BROADCAST INFORMATION AVAILABLE ON THE INTERNET.
73.3999	ENFORCEMENT OF 18 U.S.C. 1464 (RESTRICTIONS ON THE TRANSMISSION OF OBSCENE AND INDECENT MATERIAL).
73.4000-	LISTING OF FCC POLICIES.
73.4280	

[Next Page is No. C-1]

ALPHABETICAL INDEX

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

RULES APPLY TO ALL SERVICES, AM, FM AND TV, UNLESS INDICATED AS
PERTAINING TO A SPECIFIC SERVICE

A

- Acceptability of broadcast transmitters, Rule 73.1660
- Access, prime time (TV), Rule 73.658
- Access, reasonable, Rule 73.1944
- Action on applications, Rules 73.3591-73.3605
- Adjacent channel and co-channel stations, minimum mileage, separation between—
 - FM, Rule 73.207
 - NCE-FM, Rule 73.507
- Administrative changes in authorizations—
 - FM, Rule 73.212
 - TV, Rule 73.615
- Advertising—
 - Refusal to sell, Rule 73.4005(*)
 - Sponsorship identification, Rule 73.1212
- Affiliation agreements and network program practices; territorial exclusivity in non-network program arrangements (TV), Rule 73.658
- Affiliation agreements, networks/stations
 - AM, Rules 73.132, 73.3613, 73.4154(*)
 - FM, Rules 73.232, 73.3613, 73.4154(*)
 - TV, Rules 73.658, 73.3613
- Agreement, United States-Mexico FM broadcast, channel assignments under (NCE-FM), Rule 73.504
- Agreements, international broadcasting, Rule 73.1650
- Alarm and monitoring points, automatic transmission system—
 - NCE-FM, Rule 73.546
- Allocation, engineering standards of (AM), Rule 73.182
- Allocation, field strength measurements in; establishment of effective field at one mile (AM), Rule 73.186
- Allotment, petition for, in 1605-1705 kHz band (AM), Rule 73.30
- Allotments, table of—
 - DTV, Rule 73.622
 - FM, Rule 73.202
 - TV, Rule 73.606
- AM antenna systems, Rule 73.45
- AM broadcast channels, classes of, Rules 73.21,73.23, 73.25,73.26, 73.27,73.29
- AM broadcast tower, construction near or installation on, Rule 73.1692
- AM definitions, Rule 73.14
- AM directional antenna field measurements, Rule 73.61
- AM: scope of subpart, Rule 73.1
- AM station operation, Rule 73.1735
- AM stereophonic broadcasting, Rule 73.128
- AM transmission system emission limitations, Rule 73.44
- AM transmission system fencing requirements, Rule 73.49

[Policies of FCC are indicated (*)]

ALPHABETICAL INDEX

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

RULES APPLY TO ALL SERVICES, AM, FM AND TV, UNLESS INDICATED AS PERTAINING TO A SPECIFIC SERVICE

Amendments—

Major/minor: renewal, assignment, transfer, Rule 73.3578

Matter of right, Rule 73.3522

Procedures, Rule 73.3513

Ammeters, antenna and common point, remote reading (AM), Rule 73.57

Announcements required—

Designation of application for hearing, Rule 73.3594

Donor, Rules 73.503, 73.621, 73.1212

Filing of broadcast applications, Rule 73.3580

Sponsorship, Rule 73.1212

Station I.D., Rule 73.1201

Antenna base fences, (AM), Rule 73.49

Antenna, directional, field measurements (AM), Rule 73.61

Antenna, directional, field strength measurements to establish performance of (AM),
Rule 73.151

Antenna height and power requirements—

FM, Rule 73.211

NCE-FM, Rule 73.511

TV, Rule 73.614

Antenna heights, minimum, or field strength requirements (AM), Rule 73.189

Antenna monitors (AM), Rule 73.69

Antenna monitors, requirements for authorization of (AM), Rule 73.53.

Antenna monitors, sampling system for (AM), Rule 73.68

Antenna resistance and reactance; measurements (AM), Rule 73.54

Antenna site, use of common—

FM, Rule 73.239

TV, Rule 73.635

Antenna structure, marking and lighting, Rule 73.1213

Antenna system (AM); showing required, Rule 73.33

Antenna system tolerances, directional (AM), Rule 73.62

Antenna system; transmitter location (TV), Rule 73.685

Antenna systems—

AM, Rule 73.45

DTV, Rule 73.625

FM, Rule 73.316

NCE-FM, Rule 73.510

TV, Rule 73.685

Antenna systems, directional (AM), Rule 73.150

Antenna testing during daytime (AM), Rule 73.157

Antennas, emergency, Rule 73.1680

[Policies of FCC are indicated (*)]

ALPHABETICAL INDEX

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

RULES APPLY TO ALL SERVICES, AM, FM AND TV, UNLESS INDICATED AS PERTAINING TO A SPECIFIC SERVICE

Application and report forms, Rule 73.3500

Applications—

- Acceptance, Rule 73.3564
- Agreements for conflict removal, Rule 73.3525
- AM and FM construction permits, incomplete or defective, Rule 73.4015(*)
- AM station processing, Rule 73.3571
- Amendment of, Rule 73.3522
- Amendments, renewal and assignment or transfer of control, Rule 73.3578
- Assign or transfer unbuilt facility, Rule 73.3535
- Assignment, involuntary, Rule 73.3541
- Assignment voluntary, Rule 73.3540
- Call signs, Rule 73.3550
- Conflicting, Rule 73.3518
- Conflicts: other North American countries, Rule 73.23
- Commission action not required, Rule 73.3562
- Commission action required, Rule 73.3561
- Construction period, Rule 73.3598
- Construction permit extension, Rule 73.3534
- Construction permit forfeiture, Rule 73.3599
- Construction permit, or modification of, Rule 73.3533
- Content, Rule 73.3514
- Contingent applications, Rule 73.3517
- Copies, number of; when to file, Rule 73.3512
- Defective, Rule 73.3566
- Designation for hearing, Rule 73.3593
- Designation for hearing, public notice, Rule 73.3594
- Dismissal, Rule 73.3568
 - In renewal proceedings, Rule 73.3523
- Emergency authorization, Rule 73.3542
- Existing station changes, Rule 73.3538
- Facilities specifications, Rule 73.3516
- Filing location; number of copies, Rule 73.3512
- FM processing, Rule 73.3573
- FM stations, commercial, Rule 73.4017(*)
- Forfeiture, construction permit, Rule 73.3599
- Formal; informal, Rule 73.3511
- Grant, conditional, Rule 73.3592
- Grants without hearing, Rule 73.3591
- Hearing designation, Rule 73.3593
- Hearing status retention, Rule 73.3605
- Inconsistent, Rule 73.3518
- Informal; formal, Rule 73.3511
- International station processing, Rule 73.3574
- License, Rule 73.3536

[Policies of FCC are indicated (*)]

ALPHABETICAL INDEX

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

RULES APPLY TO ALL SERVICES, AM, FM AND TV, UNLESS INDICATED AS PERTAINING TO A SPECIFIC SERVICE

Applications (Cont'd)

- Modification and simultaneous renewal of license, Rule 73.3601
- Modified station license, Rule 73.3544
- Modify authorized, unbuilt facility, Rule 73.3535
- Multiple, Rule 73.3520
- Mutually exclusive applications for LPTV and TV translator and booster stations, Rule 73.3521
- Objections, informal, filing of, Rule 73.3587
 - Dismissal of petitions to deny or withdrawal of, Rule 73.3588
 - Threat to file petition, Rule 73.3589
- Operation during repair of defective equipment, Rule 73.3549
- Petitions to deny, Rule 73.3584
- Program delivery to foreign stations, Rule 73.3545
- Public notice, designation for hearing, Rule 73.3594
- Public notice of filing, Rule 73.3580
- Renewal, Rule 73.3539
- Renewal and simultaneous modification of license, Rule 73.3601
- Repetitious, Rule 73.3519
- Replacement of construction permit, Rule 73.3534
- Rounding of nominal power on (AM), Rule 73.31
- Signing of, Rule 73.3513
- Special service authorizations, Rule 73.3543
- Specification of facilities, Rule 73.3516
- Temporary authorization, Rule 73.3542
- Transfer and assignment procedures, Rule 73.3597
- Transfer of control, involuntary, Rule 73.3541
- Transfer of control, voluntary, Rule 73.3540
- Transfer or assign unbuilt facility, Rule 73.3535
- TV, LPTV, translator and TV booster processing, Rule 73.3572
- Unbuilt facilities: modify, assign or transfer, Rule 73.3535
- Use of former main antenna as auxiliary, Rule 73.3537
- Waiver procedure, Rule 73.3603
- Applications for broadcast facilities, showing required (AM), Rule 73.37
- Assignment, channels available for (NCE-FM), Rule 73.501
- Assignment, FM increasing availability of, Rule 73.4107(*)
- Assignment of stations to channels (AM), Rule 73.28
- Assignment policies and procedures (FM), Rule 73.4104(*)
- Assignments, channel, under the United States-Mexico—FM Broadcast Agreement (NCE-FM), Rule 73.504
- Attacks, personal, Rule 73.1920
- Aural and visual TV transmitters, operation of, Rule 73.653
- Aural baseband subcarriers, TV, Rule 73.665

[Policies of FCC are indicated (*)]

ALPHABETICAL INDEX

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

RULES APPLY TO ALL SERVICES, AM, FM AND TV, UNLESS INDICATED AS PERTAINING TO A SPECIFIC SERVICE

Authorization, administrative changes in—
 FM, Rule 73.212
 TV, Rule 73.615
Authorization of antenna monitors, requirements for, Rule 73.53
Authorizations, experimental, Rule 73.1510
Authorizations, remote control, Rule 73.1400
Authorizations, special field test, Rule 73.1515
Authorizations, Special Temporary (STA), Rule 73.1635
Automatic Transmission System (ATS), Rule 73.1500
Auxiliary facilities, Rule 73.1675
Auxiliary transmitters, Rule 73.1670
Availability of channels—
 FM, Rule 73.203
 TV, Rule 73.607
Availability to FCC of station logs and records, Rule 73.1226

B

Barter agreements, Rule 73.4045(*)
Baseband subcarriers, aural, T.V., Rule 73.665
Blanketing interference—
 AM, Rule 73.88
 FM, Rule 73.318
Broadcast by candidates for public office, Rule 73.1940
 Equal opportunities, Rule 73.1941
 Rates, Rule 73.1942
Broadcast channels and stations, classes of (AM), Rules 73.21, 73.22, 73.25, 73.26,
 73.27, 73.29
Broadcast day (definition), Rule 73.1700
Broadcast facilities authorizations; showing required (AM), Rule 73.24
Broadcast facilities, showing required for applications (AM), Rule 73.37
Broadcast hoaxes, Rule 73.1217
Broadcast of FAA communications, Rule 73.4102(*)
Broadcast of lottery information, Rule 73.1211
Broadcast of taped, filmed or recorded material, Rule 73.1208
Broadcast of telephone conversation, Rule 73.1206
Broadcast station construction near or installation on AM broadcast tower, Rule 73.1692
Broadcast transmitters, acceptability of, Rule 73.1660
Broadcasting agreements, international, Rule 73.1650
Broadcasting emergency information, Rule 73.1250
Broadcasting, stereophonic—
 FM, Rule 73.297
 NCE-FM, Rule 73.596

[Policies of FCC are indicated (*)]

ALPHABETICAL INDEX

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

RULES APPLY TO ALL SERVICES, AM, FM AND TV, UNLESS INDICATED AS PERTAINING TO A SPECIFIC SERVICE

C

- Call letters—requests and assignments, Rule 73.3550
- Candidates for public office, broadcast by, Rule 73.1940
 - Equal opportunities, Rule 73.1941
 - Rates, Rule 73.1942
- Carrier frequency departure tolerances, Rule 73.1545
- Carrier frequency measurements, Rule 73.1540
- Certification of financial qualifications, Rule 73.4099(*)
- Changes in authorizations, administrative—
 - FM, Rule 73.212
 - TV, Rule 73.615
- Channel assignments under the United States-Mexico Broadcast Agreement (NCE-FM), Rule 73.504
- Channel 6 protection (NCE-FM), Rule 73.525
- Channels and stations, classes of AM broadcast, Rules 73.21, 73.22, 73.25, 73.26, 73.27, 73.29
- Channels, assignment of stations to (AM), Rule 73.28
- Channels available for assignment (NCE-FM), Rule 73.501
- Channels, availability of—
 - FM, Rule 73.203
 - TV, Rule 607
- Channels, classes of educational, and stations operating thereon, Rule 73.506
- Channels, FM broadcast, numerical designation of, Rule 73.201
- Channels, restriction on use of (FM), Rule 73.220
- Channels, TV, numerical designation of, Rule 73.603
- Channels, unreserved, noncommercial educational broadcast stations, operating on (NCE-FM), Rule 73.513
- Character evaluation of broadcast applicants, Rule 73.4280(*)
- Charts, engineering—
 - AM, Rule 73.190
 - FM, Rule 73.333
 - NCE-FM, Rule 73.599
 - TV, Rule 73.699
- Charts; groundwave field strength (AM), Rule 73.184
- Chief operators, Rule 73.1870
- Children's TV programs, Rule 73.4050(*)
 - Commercial limits in, Rule 73.670
 - Educational and informational programming, Rule 73.671
 - Public information initiatives regarding, Rule 73.673
- Cigarette advertising, Rule 73.4055(*)
- Citizens agreements, Rule 73.4060(*)

[Policies of FCC are indicated (*)]

ALPHABETICAL INDEX

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

RULES APPLY TO ALL SERVICES, AM, FM AND TV, UNLESS INDICATED AS PERTAINING TO A SPECIFIC SERVICE

- Class D noncommercial educational stations, special procedures applicable to, Rule 73.512
- Classes of AM broadcast channels and stations, Rules 73.21, 73.25, 73.26, 73.27, 73.29
- Classes of noncommercial educational FM stations and channels, Rule 73.506
- Classes of stations; power and antenna height requirements, Rule 73.211
- Classified ads, Rule 73.1212
- Co-channel and adjacent channel stations, minimum separation—
 - FM, Rule 73.207
 - NCE-FM, Rule 73.507
- Commercials, loud, Rule 73.4075(*)
 - See also Advertising, this Index*
- Common antenna site, use of—
 - FM, Rule 73.239
 - TV, Rule 73.635
- Common point, and antenna ammeters, remote reading (AM), Rule 73.57
- Communications services, subsidiary—
 - FM, Rule 73.295
 - NCE-FM, Rule 73.593
 - TV, Rule 73.667
- Comparative broadcast hearings-specialized formats, Rule 73.4082(*)
- Computation of interfering signal (AM), Rule 73.185
- Computations, reference points and distance—
 - FM, Rule 73.208
 - TV, Rule 73.611
- Construction near or installation on an AM tower, Rule 73.1692
- Construction of broadcast antenna near AM broadcast tower, Rule 73.1692
- Construction period, Rule 73.3598
- Construction permit, forfeited, Rule 73.3599
- Contests, licensee-conducted, Rule 73.1216
- Contour protection for short-spaced assignments, Rule 73.215
- Contours, field strength—
 - FM, Rule 73.311
 - TV, Rule 73.683
- Contracts, filing of, Rule 73.3613
- Coverage, prediction of—
 - FM, Rule 73.313
 - TV, Rule 73.684
- Cross reference to rules in other Parts, Rule 73.1010

[Policies of FCC are indicated (*)]

ALPHABETICAL INDEX

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

**RULES APPLY TO ALL SERVICES, AM, FM AND TV, UNLESS INDICATED AS
PERTAINING TO A SPECIFIC SERVICE**

D

- Day, broadcast (definition), Rule 73.1700
- Daytime (definition), Rule 73.1720
- Daytime radiation, limitation on (AM), Rule 73.187
- Definitions, subscription TV, Rule 73.641
- Definitions, technical—
 - AM, Rule 73.14
 - FM, Rule 73.310
 - TV, Rule 73.681
- Deny, petitions to, Rule 73.3584
- Determining operating power—
 - AM, Rule 73.51
 - FM, Rule 73.267
 - NCE-FM, Rule 73.567
 - TV, Rule 73.664
- Digital television (DTV)
 - Antenna system, Rule 73.625
 - Applications, Rule 73.623
 - Broadcast stations, Rule 73.624
 - Coverage, Rule 73.625
 - Table of allotments, Rule 73.622
 - Changes to, Rule 73.623
 - Transmitter location, Rule 73.625
- Direct broadcast satellites, Rule 73.4091(*)
- Directional antenna data, modification of (AM), Rule 73.152
- Directional antenna field measurements (AM), Rule 73.61
- Directional antenna monitoring points (AM), Rule 73.158
- Directional antenna system tolerances (AM), Rule 73.62
- Directional antenna systems (AM), Rule 73.150
- Directional antennas, field strength measurements to establish performance of (AM), Rule 73.151
- Discontinuance of operation, Rule 73.1750
- Distance and reference points, computations of—
 - FM, Rule 73.208
 - TV, Rule 73.611
- Distance separations, minimum, between stations—
 - FM, Rule 73.207
 - NCE-FM, Rule 73.507
 - TV, Rule 73.610
- Distress sales and tax certificates, minority ownership, Rule 73.4140(*)
- Doctrine, fairness, Rule 73.1910
- Dolby encoder, Rule 73.4094(*)
- Donor announcements (NCE-FM), Rule 73.503
- Drug lyrics, Rule 73.4095(*)
- Dual-language broadcasting in Puerto Rico (TV/FM), Rule 73.1210
- Duplication of programming, Rule 73.3556

[Policies of FCC are indicated (*)]

ALPHABETICAL INDEX

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

**RULES APPLY TO ALL SERVICES, AM, FM AND TV, UNLESS INDICATED AS
PERTAINING TO A SPECIFIC SERVICE**

E

- EAS (Emergency Alert System), Rules 11.1-11.62
- EAS signal test—automated systems, Rule 73.4097(*)
- Editorials, political, Rule 73.1930
- Educational, noncommercial FM stations on unreserved channels (NCE-FM), Rule 73.513
- Educational stations, noncommercial (TV), Rule 73.621
- Effective field at one kilometer, establishment of (AM), Rule 73.186
- Emergency Alert System (EAS), Rules 11.1-11.62
- Emergency antennas, Rule 73.1680
- Emergency Broadcast System (EBS), Rule 73.900
 - See also* Part 11, Emergency Alert System (EAS)
- Emergency messages, broadcasting, Rule 73.1250
- Emission limitations, AM transmission system, Rule 73.44
- Employment opportunities, equal, Rule 73.2080
- Employment report, Rule 73.3612
- Engineering charts—
 - AM, Rule 73.190
 - FM, Rule 73.333
 - NCE-FM, Rule 73.599
 - TV, Rule 73.699
- Engineering standards of allocation (AM), Rule 73.182
- Engineering, standards of good practice (NCR-FM), Rule 73.508
- Equal employment opportunities, Rule 73.2080
- Equipment performance measurements, Rule 73.1590
- Equipment tests, Rule 73.1610
- Establishment of effective field at one kilometer (AM), Rule 73.186
- Evaluation of broadcast applicant character, Rule 73.4280(*)
- Exclusivity, territorial (network)—
 - AM, Rule 73.132
 - FM, Rule 73.232
 - TV, Rule 73.658
- Experimental authorizations, Rule 73.1510
- Experimental period, operating during the (AM), Rule 73.72

[Policies of FCC are indicated (*)]

ALPHABETICAL INDEX

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

**RULES APPLY TO ALL SERVICES, AM, FM AND TV, UNLESS INDICATED AS
PERTAINING TO A SPECIFIC SERVICE**

F

FM communications, broadcast of, Rule 73.4102(*)
Facilities authorizations; broadcast; showing required (AM), Rule 73.24
Facilities, automatic transmission system—
 NCE-FM, Rule 73.542
Facilities, auxiliary, Rule 73.1675
Fairness doctrine, Rule 73.1910
FCC policies, Rule 73.4000(*)
FCC, station inspections by, Rule 73.1225
Fencing requirements, AM stations, Rule 73.49
Fencing requirements, AM transmission system, Rule 73.49
Field measurements, AM directional antenna, Rule 73.61
Field strength charts, groundwave (AM), Rule 73.184
Field strength contours—
 FM, Rule 73.311
 TV, Rule 73.683
Field strength measurements—
 FM, Rule 73.314
 TV, Rule 73.686
Field strength measurements: establishment of effective field, Rule 73.186
Field strength measurements in support of applications or evidence at hearing (AM),
 Rule 73.153
Field strength measurements to establish performance of directional antennas (AM),
 Rule 73.151
Field strength requirements, or minimum antenna heights (AM), Rule 73.189
Field test authorizations, special, Rule 73.1515
File, political, Rule 73.1943
File, public, Rules 73.3526-73.3527
Filing of applications, Rules 73.3511-73.3550
Filing of contracts, Rule 73.3613
Filmed, taped, or recorded material; broadcast of, Rule 73.1208
Financial qualifications—
 AM and FM, Rule 73.4100(*)
 TV, Rule 73.4101(*)
Financial qualifications, certification of, Rule 73.4099(*)
FM assignment policies and procedures, Rule 73.4104(*)
FM assignments, increasing availability, Rule 73.4107(*)
FM broadcast channels, numerical designation of, Rule 73.201
FM multiplex subcarriers, technical standards, Rule 73.319
FM multiplex subcarriers, use of, Rule 73.293
FM subsidiary communications services, Rule 73.295
 Communication services, Rule 73.295
FM transmitter site map submissions, Rule 73.4108
FM/TV dual-language broadcasting in Puerto Rico, Rule 73.1210

[Policies of FCC are indicated (*)]

ALPHABETICAL INDEX

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

RULES APPLY TO ALL SERVICES, AM, FM AND TV, UNLESS INDICATED AS PERTAINING TO A SPECIFIC SERVICE

Foreign broadcast stations—permits to furnish programs, Rule 73.3545
Format changes of stations, Rule 73.4110(*)
Forms, application and report, Rule 73.3500
Frequency departure tolerances, carrier, Rule 73.1545
Frequency measurement, carrier, Rule 73.1540

G

General operating requirements (subscription TV), Rule 73.643
General requirements relating to logs, Rule 73.1800
Grants-
 Conditional, Rule 73.3592
 Without hearing, Rule 73.3591
Groundwave field strength charts (AM), Rule 73.184
Groundwave signals (AM), Rule 73.183

H

Hearings, designation of applications for, Rule 73.3593
Hoaxes, broadcast, Rule 73.1217
Hours, specified, Rule 73.1730

I

Identification, sponsorship; list retention, related requirements, Rule 73.1212
Identification, station, Rule 73.1201
Improvement factors, calculation of, for petition for allotment, Rule 73.35
Indecent broadcasts, Rule 73.4165(*)
Indecent material, restrictions on transmission of, Rule 73.3999
Indicating instruments, requirements for—
 AM, Rule 73.58
 FM, Rule 73.258
 NCE-FM, Rule 73.558
 TV, Rule 73.688
Indicating instruments, specifications for, Rule 73.1215
Information available on the Internet, Rule 73.3617
Information, broadcasting emergency, Rule 73.1250
Input power, antenna; how determined (AM), Rule 73.51
Inspections, station, by FCC, Rule 73.1225
Inspections, transmission system, Rule 73.1580
Installation of broadcast antenna on AM broadcast tower, Rule 73.1692
Installation on or construction near an AM tower, Rule 73.1692

[Policies of FCC are indicated (*)]

ALPHABETICAL INDEX

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

RULES APPLY TO ALL SERVICES, AM, FM AND TV, UNLESS INDICATED AS PERTAINING TO A SPECIFIC SERVICE

Instruments, indicating (requirements for)—

AM, Rule 73.58

FM, Rule 73.258

NCE-FM, Rule 73.558

TV, Rule 73.688

Instruments, indicating, specifications (meters), Rule 73.1215

Interference, blanketing—

AM, Rule 73.88

FM, Rule 73.318

Interference, protection from—

FM, Rule 73.209

NCE-FM, Rule 73.509

TV, Rule 73.612

Interference to astronomy, research and receiving installations, notifications concerning,
Rule 73.1030

Interference to TV reception by FM stations, Rule 73.4135(*)

Interfering signal, computation of (AM), Rule 73.185

International broadcast stations, Rules 73.701-73.788

Alternate main transmitters, Rule 73.758

Antenna systems, Rule 73.753

Assignment and use of frequencies, Rule 73.702

Authorizations, Rule 73.732

Auxiliary transmitters, Rule 73.757

Definitions, Rule 73.701

Determining operating power, Rule 73.765

Discontinuance of operation, Rule 73.1750

Equal employment opportunities, Rule 73.2080

Equipment tests, Rule 73.712

Frequency monitors, Rule 73.754

Frequency tolerance, Rule 73.1545

Geographical zones and areas of reception, Rule 73.703

Licensing requirements, Rule 73.731

Logs, Rule 73.781

By whom kept, Rule 73.1800

Corrections, Rule 73.1800

Form, Rule 73.1800

Retention of, Rule 73.782

Modification of transmission systems, Rule 73.759

Modulation and bandwidth, Rule 73.766

Modulation monitors, Rule 73.755

Normal license period, Rule 73.733

Notification of filing of applications, Rule 73.1030

Operating power, Rule 73.751

Program tests, Rule 73.713

Rebroadcasts, Rule 73.1207

[Policies of FCC are indicated (*)]

ALPHABETICAL INDEX

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

RULES APPLY TO ALL SERVICES, AM, FM AND TV, UNLESS INDICATED AS PERTAINING TO A SPECIFIC SERVICE

- International Broadcast Stations (Cont'd)
 - Service; commercial or sponsored programs, Rule 73.788
 - Sponsorship identification, Rule 73.1212
 - Station identification, Rule 73.787
 - Station inspection, Rule 73.1225
 - Station license, posting of, Rule 73.1230
 - Time of operation, Rule 73.761
 - Transmission system requirements, Rule 73.756
- International broadcasting agreements, Rule 73.1650

J, K, L

- Letters received from the public, retention of, Rule 73.1202
- License period, station, Rule 73.1020
- Licensee-conducted contests, Rule 73.1216
- Licenses, station and operator, posting of, Rule 73.1230
- Licensing, acceptability of broadcast transmitters for (TV), Rule 73.640
- Licensing by lottery or random selection, Rules 73.3572, 73.3584, 73.3597
- Licensing policies (subscription TV), Rule 73.642
- Licensing requirements and service (NCE-FM), Rule 73.503
- Lighting and marking, antenna structure, Rule 73.1213
- Limitation on daytime radiation (AM), Rule 73.187
- Limited time, Rule 73.1725
- Lists retention; sponsorship identification; related requirements, Rule 73.1212
- Location, main studio, Rule 73.1125
- Location of transmitter—
 - FM, Rule 73.315
 - TV, Rule 73.685
- Location, station, Rule 73.1120
- Location, transmitter and antenna system (TV), Rule 73.685
- Logs-
 - General requirements related to the station, Rule 73.1800
 - Program, Rule 73.1810
 - Retention of, Rule 73.1840
 - Station, Rule 73.1820
- Logs and records, availability to FCC, Rule 73.1226
- Lottery information, broadcast of, Rule 73.1211
- Lottery or random selection licensing, Rules 73.3572, 73.3584, 73.3597

[Policies of FCC are indicated (*)]

ALPHABETICAL INDEX

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

RULES APPLY TO ALL SERVICES, AM, FM AND TV, UNLESS INDICATED AS PERTAINING TO A SPECIFIC SERVICE

M

- Main studio location, Rule 73.1125
- Main transmitters, Rule 73.1665
- Maintenance and tests, operation for, Rule 73.1520
- Marking and lighting, antenna structure, Rule 73.1213
- Measurements, antenna resistance and reactance (AM), Rule 73.54
- Measurements, carrier frequency, Rule 73.1540
- Measurements, equipment performance, Rule 73.1590
- Measurements, field strength—
 - FM, Rule 73.314
 - TV, Rule 73.686
- Measurements, field strength, for establishment of effective field at one mile (AM),
Rule 73.186
- Measurements, field strength in support of applications or evidence at hearings (AM)
Rule 73.153
- Measurements, field strength, to establish performance of directional antennas (AM)
Rule 73.151
- Meters, specifications, Rule 73.1215
- Mexican/U.S. Agreement, Rule 73.23
- Mexico—U.S. FM Broadcast Agreement, channel assignment under (NCE-FM), Rule 73.504
- Minimum antenna heights or field strength requirements (AM), Rule 73.189
- Minimum operating schedule, Rule 73.1740
- Minimum separation, stations at spacings below (FM), Rule 73.213
- Minimum separations between stations—
 - FM, Rule 73.207
 - NCE-FM, Rule 73.507
 - TV, Rule 73.610
- Minority ownership; tax certificates and distress sales, Rule 73.4140(*)
- Mode and operating power tolerances, Rule 73.1560
- Modification of directional antenna data (AM), Rule 73.152
- Modification of facilities, operation during, Rule 73.1615
- Modification of transmission systems, Rule 73.1690
- Modulation levels, AM, FM and TV aural, Rule 73.1570
- Modulation monitoring equipment, visual, Rule 73.691
- Monitoring and alarm points, automatic transmission system—
 - NCE-FM, Rule 73.546
- Monitoring equipment, visual modification, Rule 73.691
- Monitoring point locations, Rule 73.158
- Monitors, antenna (AM), Rule 73.69
- Monitors, antenna, requirements for authorization of (AM), Rule 73.53
- Monitors, antenna, sampling system for (AM), Rule 73.68

[Policies of FCC are indicated (*)]

ALPHABETICAL INDEX

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

RULES APPLY TO ALL SERVICES, AM, FM AND TV, UNLESS INDICATED AS
PERTAINING TO A SPECIFIC SERVICE

Multiple ownership, Rule 73.3555
Multiplex subcarrier transmission technical standards (FM), Rule 73.319
Multiplex subscribers, use of—
 FM, Rule 73.293
 TV, Rule 73.665
Multiplex subsidiary, use of, Rule 73.667
Multiplex transmission, use of (AM), Rule 73.127

N

NARBA (North American Regional Broadcasting Agreement), Rule 73.23
Network, affiliation agreements and program practices; territorial exclusivity in non-
 network program arrangements (TV), Rule 73.658
Network/AM and FM station affiliation agreements, Rule 73.4154(*)
Network signals, adversely affecting affiliate service, Rule 73.4157(*)
Network/station affiliation agreements—
 AM, Rules 73.132, 73.3613, 73.4154(*)
 FM, Rules 73.232, 73.3613, 73.4154(*)
 TV, Rules 73.658, 73.3613
Network syndication, Rule 73.658
Network, territorial exclusivity—
 AM, Rule 73.132
 FM, Rule 73.232
 TV, Rule 73.658
Nominal power, rounding of (AM), Rule 73.31
Noncommercial educational channel assignments under the United States-Mexico FM
 Broadcast Agreement, Rule 73.504
Noncommercial educational channels available for assignment, Rule 73.501
Noncommercial educational FM stations and channels, Rule 73.506
Noncommercial educational FM stations operating on unreserved channels, Rule 73.513
Noncommercial educational stations, Class D, special procedures applicable, Rule 73.512
Noncommercial educational stations (TV), Rule 73.621
Noncommercial nature—educational broadcast stations, Rule 73.4163(*)
Notifications concerning interference to radio astronomy, research and receiving
 installations, Rule 73.1030
Numerical designation of FM broadcast channels, Rule 73.201
Numerical designation of TV channels, Rule 73.603

[Policies of FCC are indicated (*)]

ALPHABETICAL INDEX

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

RULES APPLY TO ALL SERVICES, AM, FM AND TV, UNLESS INDICATED AS PERTAINING TO A SPECIFIC SERVICE

O

Objections (informal) to applications, Rule 73.3587
Obscene broadcasts, Rule 73.4170(*)
Obscene material, Rule 73.3999
Operating during the experimental period (AM), Rule 73.72
Operating on unreserved channels, noncommercial educational broadcast stations
(NCE-FM), Rule 73.513
Operating power, determining—
AM, Rule 73.51
FM, Rule 73.267
NCE-FM, Rule 73.567
TV, Rule 73.664
Operating power and mode tolerances, Rule 73.1560
Operating requirements, general (subscription TV operations), Rule 73.643
Operating schedule, minimum, Rule 73.1740
Operating schedule; time sharing (NCE-FM), Rule 73.561
Operation, AM station, presunrise and postsunset, Rule 73.1735
Operation, discontinuance of, Rule 73.1750
Operation during modification of facilities, Rule 73.1615
Operation for tests and maintenance, Rule 73.1520
Operation of TV aural and visual transmitters, Rule 73.653
Operation, remote control, Rule 73.1410
Operation, time of, Rule 73.1705
Operation, unauthorized, Rule 73.1745
Operator and station licenses, posting of, Rule 73.1230
Operators, chief, Rule 73.1870
Overlap, prohibited, Rule 73.509
Ownership, multiple, Rule 73.3555
Ownership report, Rule 73.3615

P

Payment disclosure: payola, plugola, kickbacks, Rule 73.4180(*)
Performance measurements, equipment, Rule 73.90
Performance of directional antennas, field strength measurements to establish (AM),
Rule 73.151
Performance requirements, AM transmission systems, Rule 73.40
Permissible transmissions (FM), Rule 73.277
Personal attacks, Rule 73.1920
Petition for allotment in 1605-1705 kHz band, Rule 73.30
Calculation of improvement factors in, Rule 73.35
Petitions to deny, Rule 73.3584
Plans, state-wide (NCE-FM), Rule 73.502
Points, Reference, and distance computations (TV), Rule 73.611
Point-to-point emergency messages, Rule 73.1250

[Policies of FCC are indicated (*)]

ALPHABETICAL INDEX

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

RULES APPLY TO ALL SERVICES, AM, FM AND TV, UNLESS INDICATED AS PERTAINING TO A SPECIFIC SERVICE

- Policies, licensing (TV), Rule 73.642
- Policies of FCC, Rule 73.4000(*)
- Political advertising by UHF translators, Rule 73.4195(*)
- Political advertising, sponsorship identification, Rule 73.1212
- Political broadcasting and telecasting, the law of, Rule 73.4185(*)
- Political candidate authorization notice and sponsorship identification, Rule 73.4190(*)
- Political editorials, Rule 73.1930
- Political file, Rule 73.1943
- Portable test stations, Rule 73.1530
- Posting of station and operator licenses, Rule 73.1230
- Power and antenna height requirements—
 - FM, Rule 73.211
 - NCE-FM, Rule 73.511
 - TV, Rule 73.614
- Power and mode tolerances, operating, Rule 73.1560
- Power, nominal, rounding of (AM), Rule 73.31
- Power, operating, determining—
 - AM, Rule 73.51
 - FM, Rule 73.267
 - NCE-FM, Rule 73.567
 - TV, Rule 73.664
- Prediction of coverage—
 - FM, Rule 73.313
 - TV, Rule 73.684
- Presunrise service authorization (PSRA) and postsunset service authorization (PSSA),
Rule 73.99
- Prime time access (TV), Rule 73.658
- Procedure manual: "The Public and Broadcasting," Rule 73.4210(*)
- Processing of applications, Rules 73.3561-73.3587
- Program logs, Rule 73.1810
- Program matter: supplier identification, Rule 73.4215(*)
- Program practices, network and affiliation agreements; territorial exclusivity in non-
network program arrangements (TV), Rule 73.658
- Program tests, Rule 73.1620
- Programming, duplication of, Rule 73.3556
- Prohibited overlap, Rule 73.509
- Proofs of performance, partial and skeleton, field strength measurements (AM)
Rule 73.154
- Protection from interference—
 - FM, Rule 73.209
 - NCE-FM, Rule 73.509
 - TV, Rule 73.612
- Proxy statements and tender offers, Rule 73.4266(*)
- Public inspection file, Rules 73.3526-73.3527
- Public office, broadcasts by candidates for, Rule 73.1940
 - Equal opportunities, Rule 73.1941
 - Rates, Rule 73.1942
- Puerto Rico TV/FM, dual-language broadcasting in, Rule 73.1210

[Policies of FCC are indicated (*)]

ALPHABETICAL INDEX

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

RULES APPLY TO ALL SERVICES, AM, FM AND TV, UNLESS INDICATED AS
PERTAINING TO A SPECIFIC SERVICE

Q

Quiet zone, Rule 73.1690

R

Radiation characteristics, vertical plane, Rule 73.160
Radiation, daytime, limitation on (AM), Rule 73.187
Random selection or lottery licensing, Rules 73.23572, 73.3584, 73.3597
Rebroadcasts, Rule 73.1207
Recorded, taped or filmed material, broadcast of, Rule 73.1208
Recording telephone conversations, Rule 73.1206
Records and logs, availability to FCC, Rule 73.1226
Records, special technical, Rule 73.1835
Reference, cross, to rules in other Parts, Rule 73.1010
Reference points and distance computations—
 FM, Rule 73.208
 TV, Rule 73.611
Reference to time, Rule 73.1209
Remote control authorizations, Rule 73.1400
Remote control operation, Rule 73.1410
Remote reading antenna and common point ammeters (AM), Rule 73.57
Renewal period, Rule 73.1020
Report and application forms, Rule 73.3500
Requirements, equipment and technical system performance (TV), Rule 73.53
Requirements, power and antenna height—
 AM, Rule 73.189
 FM, Rule 73.211
 NCE-FM, Rule 73.511
 TV, Rule 73.614
Requirements, relating to logs, general, Rule 73.1800
Requirements, subscription TV, operating, Rule 73.643
Requirements, transmission system—
 FM, Rule 73.317
 TV, Rule 73.687
Requirements, transmission system performance (AM), Rule 73.40
Responses and statements to Commission inquiries, Rule 73.1015
Restrictions on use of channels (FM), Rule 73.220
Retention of letters received from the public, Rule 73.1202
Retention of logs, Rule 73.1840
Rounding of nominal power (AM), Rule 73.31
Rules common to all broadcast stations, scope, Rule 73.1001
Rules in other Parts, cross reference to, Rule 73.1010

[Policies of FCC are indicated (*)]

ALPHABETICAL INDEX

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

**RULES APPLY TO ALL SERVICES, AM, FM AND TV, UNLESS INDICATED AS
PERTAINING TO A SPECIFIC SERVICE**

S

Sampling systems for antenna monitors (AM), Rule 73.68
Satellites, direct broadcast 73.4091(*)
SCA-
 FM, Rule 73.293
 NCE-FM, Rule 73.593
Schedule, minimum operating, Rule 73.1740
Schedule, operating; time sharing (NCE-FM), Rule 73.561
School closings, Rule 73.1250
Scope of Subpart A (AM), Rule 73.1
Scope of Subpart E (TV), Rule 73.601
Scope of Subpart H, common to all broadcast stations, Rule 73.1001
Separations (channel) (TV), Rule 73.610
Separations, minimum mileage, between co-channel and adjacent channel stations—
 FM, Rule 73.217
 NCE-FM, Rule 73.507
Separations, stations at spacings below minimum (FM), Rule 73.213
Service and licensing requirements (NCE-FM), Rule 73.503
Share time, Rule 73.1715
Sharing time, operating schedule (NCE-FM), Rule 73.561
Showing required; antenna system (AM), Rule 73.33
Showing required; applications for broadcast facilities (AM), Rule 73.37
Signal, computation of interfering (AM), Rule 73.185
Signal, groundwave (AM), Rule 73.183
Site, common antenna, use of—
 FM, Rule 73.239
 TV, Rule 73.635
Spacings, stations below the minimum separations (FM), Rule 73.213
Special antenna test authorizations (AM), Rule 73.157
Special field test authorization, Rule 73.1515
Special technical records, Rule 73.1835
Special temporary authorizations (STAs), Rule 73.1635
Specifications—indicating instruments (meters), Rule 73.1215
Specified hours, Rule 73.1730
Sponsorship identification list retention; related requirements, Rule 73.1212
Sponsorship identification rules, applicability of, Rule 73.4242(*)
STAs (Special Temporary Authorizations), Rule 73.1635
Standard time, Rule 73.1209
Standards, FM multiplex subcarrier, technical, Rule 73.319
Standards of allocation, engineering (AM), Rule 73.182
Standards of good engineering practice (NCE-FM), Rule 73.508
Standards, stereophonic transmission (FM), Rule 73.322
Standards, transmission (TV, DTV), Rule 73.682

[Policies of FCC are indicated (*)]

ALPHABETICAL INDEX

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

RULES APPLY TO ALL SERVICES, AM, FM AND TV, UNLESS INDICATED AS PERTAINING TO A SPECIFIC SERVICE

Statements and responses to Commission inquiries, Rule 73.1015
State-wide plans (NCE-FM), Rule 74.502
Station and operator licenses, posting of, Rule 74.1230
Station classes (FM), Rule 73.210
Station identification, Rule 73.1201
Station inspections by FCC, Rule 73.1225
Station license period, Rule 73.1020
Station location, Rule 73.1120
Station log, Rule 73.1820
Station, main studio location, Rule 73.1125
Station operation, presunrise and postsunset (AM), Rule 73.1735
Station operation, unattended, Rule 73.1300
Station transferring, Rule 73.1150
Stations, assignment of, to channels (AM), Rule 73.28
Stations at spacings below the minimum separation (FM), Rule 73.213
Stations, noncommercial educational FM, operating on unreserved channels, Rule 73.513
Stations, noncommercial educational (TV), Rule 73.621
Stations, short-spaced (FM), Rule 73.213
Stereophonic pilot subcarriers, monophonic programming, Rule 73.4246(*)
Stereophonic sound broadcasting—
 AM, Rule 73.128
 FM, Rule 73.297
 NCE-FM, Rule 73.597
 TV, Rule 73.669
Stereophonic sound transmission standards—
 AM, Rule 73.128
 FM, Rule 73.322
 TV, Rule 73.682
Studio location, main, Rule 73.1125
Subcarrier multiplex, transmission standards—
 FM, Rule 73.319
Subcarrier, multiplex, use of—
 FM, Rule 73.293
 TV, Rule 73.665
Subliminal perception, Rule 73.4250(*)
Subpart A, scope of (AM), Rule 73.1
Subpart E, scope of (TV), Rule 73.601
Subpart H, scope of rules common to all broadcast stations, Rule 73.1001
Subscription TV—
 Competing applications, Rule 73.4247(*)
 Definitions, Rule 73.641
 Licensing policies, Rule 73.642
 Operating requirements, Rule 73.643
 Transmission systems, Rule 73.644

[Policies of FCC are indicated (*)]

ALPHABETICAL INDEX

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

RULES APPLY TO ALL SERVICES, AM, FM AND TV, UNLESS INDICATED AS PERTAINING TO A SPECIFIC SERVICE

Subsidiary communications services—

- FM, Rule 73.295
- NCE-FM, Rule 73.595
- TV, Rule 73.667

Syndication, network, Rule 73.658

Syndication rules, expiration of financial interest and, Rule 73.663

T

Table of allotments—

- DTV, Rule 73.622
- FM, Rule 73.202
- TV, Rule 73.606

Tables, distance-degree conversions and separations (TV), Rule 73.698

Taped, filmed, or recorded material; broadcast of, Rule 73.1208

Tax certificates and distress sales; minority sales, Rule 73.4140(*)

Tax certificates, issuance of, Rule 73.4255(*)

Teaser announcements, Rule 73.4260(*)

Technical definitions—

- AM, Rule 73.14
- FM, Rule 73.310
- TV, Rule 73.681

Technical records, special, Rule 73.1835

Technical standards, definitions (TV), Rule 73.681

Telecommunications service on vertical blanking interval and visual signal, Rule 73.646

Telephone conversation broadcasts (network and like sources), Rule 73.4265(*)

Telephone conversations, broadcast of, Rule 73.1206

Television channels, numerical designation of, Rule 73.603

Temporary authorizations, special (STAs), Rule 73.1635

Tender offers and proxy statements, Rule 73.4266(*)

Territorial exclusivity in non-network program arrangements; affiliation agreements and network program practices (TV), Rule 73.658

Territorial exclusivity (network)—

- AM, Rule 73.132
- FM, Rule 73.232
- TV, Rule 73.658

Test authorization, special field, Rule 73.1515

Test stations, portable, Rule 73.1530

Testing antenna during daytime (AM), Rule 73.157

Tests and maintenance,, operation for, Rule 73.1520

Tests of equipment, Rule 73.1610

Tests, program, Rule 73.1620

[Policies of FCC are indicated (*)]

ALPHABETICAL INDEX

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

RULES APPLY TO ALL SERVICES, AM, FM AND TV, UNLESS INDICATED AS PERTAINING TO A SPECIFIC SERVICE

Time brokerage, Rule 73.4267(*)
Time, limited, Rule 73.1725
Time of operation, Rule 73.1705
Time, reference to, Rule 73.1209
Time, share, Rule 73.1715
Time sharing, operating schedule (NCE-FM), Rule 73.561
Time, unlimited, Rule 73.1710
Tolerances, carrier frequency departure, Rule 73.1545
Tolerances, directional antenna system (AM), Rule 73.62
Tolerances, operating power and mode, Rule 73.1560
Tone clusters: audio attention-getting devices, Rule 73.4275(*)
Topographic data (FM), Rule 73.312
Tower lighting and painting, Rule 73.1213
Transferring a station, Rule 73.1150
Transmission standards, changes in, Rule 73.1695
Transmission standards (TV), Rule 73.682
Transmission system, automatic (ATS), Rule 73.1500
Transmission system emission limitations (AM), Rule 73.44
Transmission system inspections, Rule 73.1580
Transmission system installation and safety requirements (AM), Rule 73.49
Transmission system monitoring and control, Rule 73.1400
Transmission system operation, Rule 73.1350
Transmission system performance requirements (AM), Rule 73.40
Transmission system requirements—
 FM, Rule 73.317
 TV, Rule 73.687
Transmission systems, modification of, Rule 73.1690
Transmission systems, subscription TV, Rule 73.644
Transmissions, permissible (FM), Rule 73.277
Transmitter, location—
 DTV, Rule 73.625
 FM, Rule 73.315
 TV, Rule 73.685
Transmitter location and antenna system (TV), Rule 73.685
Transmitters, auxiliary, Rule 73.1670
Transmitters, broadcast, acceptability of, Rule 73.1660
Transmitters, main, Rule 73.1665
Transmitters, TV, aural and visual, operation of, Rule 73.653
TV Channel 6 protection (NCE-FM), Rule 73.525
TV/FM dual-language broadcasting in Puerto Rico, Rule 73.1210
Type approval of modulation monitors, general requirements (TV), Rule 73.692

[Policies of FCC are indicated (*)]

ALPHABETICAL INDEX

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

**RULES APPLY TO ALL SERVICES, AM, FM AND TV, UNLESS INDICATED AS
PERTAINING TO A SPECIFIC SERVICE**

U

- Unauthorized operation, Rule 73.1745
- Unlimited time, Rule 73.1710
- Unreserved channels, noncommercial educational broadcast stations operating on (NCE-FM), Rule 73.513
- USA-Mexico FM Broadcast Agreement, channel assignments under (NCE-FM), Rule 73.504
- U.S./Mexican Agreement, Rule 73.23
- Use of channels, restrictions on (FM), Rule 73.220
- Use of common antenna site—
 - FM, Rule 73.239
 - TV, Rule 73.635
- Use of multiplex subcarriers—
 - FM, Rule 73.293
 - TV, Rule 73.665
- Use of multiplex transmissions (AM), Rule 73.127

V

- Vertical blanking interval and visual signal, telecommunication service on, Rule 73.646
- Vertical plane radiation characteristics, Rule 73.160
- Visual and aural TV transmitters, operation of, Rule 73.653
- Visual modulation monitoring equipment, Rule 73.691

W

- Want ads, Rule 73.1212

X, Y, Z

- Zone, quiet, Rule 73.1690
- Zones-
 - FM, Rule 73.205
 - NCE-FM, Rule 73.505
 - TV, Rule 73.609

[Policies of FCC are indicated (*)]

[Next Page is No. 1]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

PART 73
RADIO BROADCAST SERVICES

SUBPART A

AM BROADCAST STATIONS

AUTHORITY: 47 U.S.C. 154, 303, 334 and 336.

73.1 SCOPE

This subpart contains those rules which apply exclusively to the AM broadcast service and are in addition to those rules in Subpart H which are common to all AM, FM and TV broadcast services, commercial and noncommercial.

73.14 AM BROADCAST DEFINITIONS.

AM BROADCAST BAND.

The band of frequencies extending from 535 to 1705 kHz.

AM BROADCAST CHANNEL.

The band of frequencies occupied by the carrier and the upper and lower sidebands of an AM broadcast signal with the carrier frequency at the center. Channels are designated by their assigned carrier frequencies. The 117 carrier frequencies assigned to AM broadcast stations begin at 540 kHz and progress in 10 kHz steps to 1700 kHz. (See § 73.21 for the classification of AM broadcast channels).

AM BROADCAST STATION.

A broadcast station licensed for the dissemination of radio communications intended to be received by the public and operated on a channel in the AM broadcast band.

AMPLITUDE MODULATED STAGE.

The radio-frequency stage to which the modulator is coupled and in which the carrier wave is modulated in accordance with the system of amplitude modulation and the characteristics of the modulating wave.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

AMPLITUDE MODULATOR STAGE.

The last amplifier stage of the modulating wave amplitude modulates a radio-frequency stage.

ANTENNA CURRENT.

The radio-frequency current in the antenna with no modulation. (Added 82-111, 4/26/82)

ANTENNA INPUT POWER.

The product of the square of the antenna current and the antenna resistance at the point where the current is measured. (Added 82-111, 4/26/82)

ANTENNA RESISTANCE.

The total resistance of the transmitting antenna system at the operating frequency and at the point at which the antenna current is measured. (Added 82-111, 4/26/82)

AUXILIARY FACILITY.

An auxiliary facility is an AM antenna tower(s) separate from the main facility's antenna tower(s), permanently installed at the same site or at a different location, from which an AM station may broadcast for short periods without prior Commission authorization or notice to the Commission while the main facility is not in operation (e.g., where tower work necessitates turning off the main antenna or where lightning has caused damage to the main antenna or transmission system) (See § 73.1675).

BLANKETING.

The interference which is caused by the presence of an AM broadcast signal of one volt per meter (V/m) or greater strengths in the area adjacent to the antenna of the transmitting station. The 1 V/m contour is referred to as the blanket contour and the area within this contour is referred to as the blanket area. (Added 82-111, 4/26/82)

CARRIER-AMPLITUDE REGULATION. (CARRIER SHIFT).

The change in amplitude of the carrier wave in an amplitude-modulated transmitter when modulation is applied under conditions of symmetrical modulation. (Added 82-111, 4/26/82)

COMBINED AUDIO HARMONICS.

The arithmetical sum of the amplitudes of all the separate harmonic components. Root sum square harmonic readings may be accepted under conditions prescribed by the FCC. (Added 82-111, 4/26/82)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

CRITICAL DIRECTIONAL ANTENNA.

An AM broadcast directional antenna that is required, by the terms of a station authorization, to be operated with the relative currents and phases within the antenna elements at closer tolerances of deviation than those permitted under § 73.62 and observed with a high precision monitor capable of measuring these parameters. (Revised 85-590, 1/1/86)

CRITICAL HOURS.

The two hour period immediately following local sunrise and the two-hour period immediately preceding local sunset. (Added 82-111, 4/26/82)

DAYTIME.

The period of time between local sunrise and local sunset. (Added 82-111, 4/26/82)

EFFECTIVE FIELD; EFFECTIVE FIELD STRENGTH.

The root-mean-square (RMS) value of the inverse distance fields at a distance of 1 kilometer from the antenna in all directions in the horizontal plane. The term "field strength" is synonymous with the term "field intensity" as contained elsewhere in this Part. (Revised 85-150, 6/3/85)

EQUIPMENT PERFORMANCE MEASUREMENTS.

The measurements performed to determine the overall performance characteristics of a broadcast transmission system from point of program origination at main studio sampling of signal as radiated. (See § 73.1590). (Added 82-111, 4/26/82)

EXPERIMENTAL PERIOD.

The time between 12 midnight local time and local sunrise, used by AM stations for tests, maintenance and experimentation. (Added 82-111, 4/26/82)

FREQUENCY DEPARTURE.

The amount of variation of a carrier frequency or center frequency from its assigned value. (Added 82-111, 4/26/82)

INCIDENTAL PHASE MODULATION.

The peak phase deviation (in radians) resulting from the process of amplitude modulation. (Added 82-111, 4/26/82)

INPUT POWER.

Means the product of the direct voltage applied to the last radio stage and the total direct current flowing to the last radio stage, measured without modulation. (Added 82-111, 4/26/82)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

INTERMITTENT SERVICE AREA.

Means the area receiving service from the groundwave of a broadcast station but beyond the primary service area and subject to some interference and fading. (Added 82-111, 4/26/82)

LAST RADIO STAGE.

The radio-frequency power amplifier stage which supplies power to the antenna. (Added 82-111, 4/26/82)

LEFT (OR RIGHT) SIGNAL.

The electrical output of a microphone or combination of microphones placed so as to convey the intensity, time, and location of sounds originated predominantly to the listener's left (or right) of the center of the performing area. (Added 82-111, 4/26/82)

LEFT (OR RIGHT) STEREOPHONIC CHANNEL. The left (or right) signal as electrically reproduced in reception of AM stereophonic broadcasts. (Added 82-111, 4/26/82)

MAIN CHANNEL.

The band of audio frequencies from 50 to 150,000 Hz which amplitude modulates the carrier.

MAXIMUM PERCENTAGE OF MODULATION.

The greatest percentage of modulation that may be obtained by a transmitter without producing in its output, harmonics of the modulating frequency in excess of those permitted by these regulations. (See § 73.1570)

MAXIMUM RATED CARRIER POWER.

The maximum power at which the transmitter can be operated satisfactorily and is determined by the design of the transmitter and the type and number of vacuum tubes or other amplifier devices used in the last radio stage. (Added 82-111, 4/26/82)

MODEL I FACILITY.

A station operating in the 1605-1705 kHz band featuring fulltime operation with stereo, competitive technical quality, 10 kW daytime power, 1kW nighttime power, non-directional antenna (or a simple directional antenna system), and separated by 400-800 km from other co-channel stations.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

MODEL II FACILITY.

A station operating in the 535-1605 kHz band featuring fulltime operation, competitive technical quality, wide area daytime coverage with nighttime coverage at least 15% of the daytime coverage.

NIGHTTIME.

The period of time between local sunset and local sunrise. (Added 82-111, 4/26/82)

NOMINAL POWER.

The antenna input power less any power loss through a dissipative network and, for directional antennas, without consideration of adjustments specified in paragraphs (b)(1) and (b)(2) of § 73.51 of the rules. However, for AM broadcast applications granted or filed before June 3, 1985, nominal power is specified in a system of classifications which includes the following values: 50 kW, 25 kW, 10 kW, 5 kW, 2.5 kW, 1 kW, 0.5 kW, and 0.25 kW. The specified nominal power for any station in this group of stations will be retained until action is taken on or after June 3, 1985, which involves a change in the technical facilities of the station. (Revised 85-150, 6/3/85)

PERCENTAGE MODULATION (AMPLITUDE).(Revised 82-111,4/26/82)

In a positive direction:

$$M = \frac{MAX-C}{c} \times 100$$

In a negative direction:

$$M = \frac{C-MIN}{c} \times 100$$

Where:

- M = Modulation level in percent.
- MAX = Instantaneous maximum level of the modulated radio frequency envelope.
- MIN = Instantaneous minimum level of the modulated radio frequency envelope.
- C = (Carrier) level of radio frequency envelope without modulation.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

PLATE MODULATION.

The modulation produced by introduction of the modulating wave into the plate circuit of any tube in which the carrier frequency wave is present. (Added 82-111, 4/26/82)

PRIMARY SERVICE AREA.

Means the service area of a broadcast station in which the groundwave is not subject to objectionable interference or objectionable fading. (Added 82-111, 4/26/82)

PROOF OF PERFORMANCE MEASUREMENTS OR ANTENNA PROOF OF PERFORMANCE MEASUREMENTS.

The measurements of field strengths made to determine the radiation pattern or characteristics of an AM directional antenna system. (Added 82-111, 4/26/82)

STEREOPHONIC CHANNEL.

The band of audio frequencies from 50 to 10.5,000 Hz containing the stereophonic information which modulates the radio frequency carrier.

STEREOPHONIC CROSSTALK.

An undesired signal occurring in the main channel from modulation of the stereophonic channel or that occurring in the stereophonic channel from modulation of the main channel. (Added 82-111, 4/26/82)

STEREOPHONIC PILOT TONE.

An audio tone of fixed or variable frequency modulating the carrier during the transmission of stereophonic programs. (Added 82-111, 4/26/82)

STEREOPHONIC SEPARATION.

The ratio of the electrical signal caused in the right (or left) stereophonic channel to the electrical signal caused in the left (or right) stereophonic channel by the transmission of only a right (or left) signal. (Added 82-111, 4/26/82)

SECONDARY SERVICE AREA.

Means the service area of a broadcast station served by the skywave and not subject to objectionable interference and in which the signal is subject to intermittent variations in strength. (Added 82-111, 4/26/82)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

~~SECONDARY AM STATION.~~

~~Any AM station, except a Class I station operating on a Class I frequency.~~

SUNRISE AND SUNSET.

For each particular location and during any particular month, the time of sunrise and sunset as specified in the instrument of authorization. (See § 73.1209). (Added 82-26, 2/19/82)

"WHITE AREA"

The area or population which does not receive interference-free-primary service from an authorized AM station or does not receive a signal strength of at least 1 mV/m from an authorized FM station. (Added 82-26, 2/19/82)

73.21 CLASSES OF AM BROADCAST CHANNELS AND STATIONS. (Revised 84-88, 12/15/84)

(a) CLEAR CHANNEL.

A clear channel is one on which stations are assigned to serve wide areas. These stations are protected from objectionable interference within their primary service areas and, depending on the class of station, their secondary service areas. Stations operating on these channels are classified as follows:

(1) CLASS A STATION.

A Class A station is an unlimited time station that operates on a clear channel and is designed to render primary and secondary service over an extended area and at relatively long distances from its transmitter. Its primary service area is protected from objectionable interference from other stations on the same and adjacent channels, and its secondary service area is protected from interference from other stations on the same channel. (See § 73.182). The operating power shall not be less than 10 kW nor more than 50 kW. (Also see § 73.25(a)).

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(2) CLASS B STATION.

A Class B station is an unlimited time station which is designed to render service only over a primary service area. Class B stations are authorized to operate with a minimum power of 0.25 kW (or, if less than 0.25 kW, an equivalent RMS antenna field of at least 141 mV/m at 1 km) and a maximum power of 50 kW, or 10 kW for stations that are authorized to operate in the 1605-1705 kHz band.

(3) CLASS D STATION.

A Class D station operates either daytime, limited time or unlimited time with nighttime power less than 0.25 kW and an equivalent RMS antenna field of less than 141 mV/m at one km. Class D stations shall operate with daytime powers not less than 0.25 kW nor more than 50 kW. Nighttime operations of Class D stations are not afforded protection and must protect all Class A and Class B operations during nighttime hours. New Class D stations that had not been previously licensed as Class B will not be authorized.

(b) REGIONAL CHANNEL.

A regional channel is one on which Class B and Class D stations may operate and serve primarily a principal center of population and the rural area contiguous thereto.

NOTE: Until the North American Regional Broadcasting Agreement (NARVBA) is terminated with respect to the Bahama Islands and the Dominican Republic, radiation toward these countries from a Class B station may not exceed the level that would be produced by an omnidirectional antenna with a transmitted power of 5 kW, or such lower level as will comply with NARBA requirements for protection of stations in the Bahama Islands and the Dominican Republic against objectionable interference.

(c) LOCAL CHANNEL.

A local channel is one on which stations operate unlimited time and serve primarily a community and the suburban and rural areas immediately contiguous thereto.

[Next Page is No. 8.1]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(1) CLASS C STATION.

A Class C station is a station operating on a local channel and is designed to render service only over a primary service area that may be reduced as a consequence of interference in accordance with § 73.182. The power shall not be less than 0.25 kW, nor more than 1 kW. Class C stations that are licensed to operate with 0.1 kW may continue to do so.

~~73.22~~ — ASSIGNMENT OF CLASS II-A STATIONS.

(a) ~~TABLE OF ASSIGNMENTS.~~

~~One Class II-A station may be assigned on each channel listed in the following table within the designated State or States:~~

Channel (Kilo- hertz)	Location of existing Class I station	State(s) in which Class II-A assignment may be applied for
670	Chicago, Ill.	Idaho.
720	do	Nevada or Idaho.
770	New York, N.Y.	New Mexico.
780	Chicago, Ill.	Nevada.
880	New York, N.Y.	North Dakota, South Dakota, or Nebraska.
890	Chicago, Ill.	Utah.
1020	Pittsburgh, Pa.	New Mexico.
1030	Boston, Mass.	Wyoming.
1100	Cleveland, Ohio	Colorado.
1120	St. Louis, Mo.	California or Oregon.
1180	Rochester, N.Y.	Montana.
1210	Philadelphia, Pa.	Kansas, Nebraska, or Oklahoma.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

~~(b) MINIMUM SERVICE TO "WHITE" AREAS.~~

~~No Class II-A station shall be assigned unless at least 25 percent of its nighttime interference-free service area or at least 25 percent of the population residing therein receives no other interference-free nighttime primary service.~~

~~(e) POWER.~~

~~Class II-A stations shall operate with not less than 10 kW power nighttime.~~

~~(d) PROTECTION.~~~~(1) PROTECTION BY CLASS II-A STATIONS TO OTHER STATIONS.~~

~~The co-channel Class I-A station shall be protected by the Class II-A station to its 0.1 mV/m contour daytime and its 0.5 mV/m 50 percent skywave contour nighttime. A co-channel Class I-N station shall be protected to its 0.1 mV/m contour daytime and its 0.1 mV/m 50% skywave contour nighttime. the 0.1 mV/m groundwave contour of a Class I-N station is to be protected in those azimuths in which the Class I-N station does not develop a 0.1 mV/m 50% skywave signal. All other stations of any class authorized on or before October 30, 1961, shall normally receive protection from objectionable interference from Class II-A stations as provided in § 73.182.~~

~~(2) PROTECTION TO CLASS II-A STATIONS.~~

~~A Class II-A station shall normally receive daytime protection to its 0.5 mV/m groundwave contour and nighttime protection to the contour to which it is limited by the co-channel Class I-A station.~~

~~(e) APPLICATIONS NOT COMPLYING WITH THIS SECTION.~~

~~Applications for Class II-A stations which do not meet the requirements of paragraph (b) and (c) of this section will be returned without further consideration.~~

[Next Page is No. 9]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

**73.23 AM BROADCAST STATION APPLICATIONS AFFECTED
BY INTERNATIONAL AGREEMENTS.**

(a) Except as provided in paragraph (b) of this section, no application for an AM station will be accepted for filing if authorization of the facilities requested would be inconsistent with international commitments of the United States under treaties and other international agreements, arrangements and understandings. (See list of such international instruments in § 73.1650(b).) Any such application that is inadvertently accepted for filing will be dismissed.

(b) AM applications that involve conflicts only with the North American Regional Broadcasting Agreement (NARBA), but that are in conformity with the remaining treaties and other international agreements listed in § 73.1650(b) and with the other requirements of this part 73, will be granted subject to such modifications as the FCC may subsequently find appropriate, taking international considerations into account.

(c) In the case of any application designated for hearing on issues other than those related to consistency with international relationships and as to which no final decision has been rendered, whenever action under this section becomes appropriate because of inconsistency with international relationships, the applicant involved shall, notwithstanding the provisions §§ 73.3522 and 73.3571, be permitted to amend its application to achieve consistency with such relationships. In such cases the provisions of § 73.3605(c) will apply.

(d) In some circumstances, special international considerations may require that the FCC, in acting on applications, follow procedures different from those established for general use. In such cases, affected applicants will be informed of the procedures to be followed.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.24 BROADCAST FACILITIES; SHOWING REQUIRED.

An authorization for a new AM broadcast station or increase in facilities of an existing station will be issued only after a satisfactory showing has been made in regard to the following, among others:

- (a) That the proposed assignment will tend to effect a fair, efficient, and equitable distribution of radio service among the several states and communities.
- (b) That a proposed new station (or a proposed change in the facilities of an authorized station) complies with the pertinent requirements of § 73.37 of this chapter. (Revised 73-220, 4/10/73)

NOTE: ~~With respect to new Class II-A stations or to stations for which applications were accepted for filing before July 13, 1964, the provisions of NOTE 1 of § 73.37 of this chapter shall apply. Special provisions concerning interference from Class II-A to stations of other classes authorized after October 30, 1961, are contained in § 73.22(d) of this chapter and NOTE 3 to § 73.21 of this chapter. The level of interference shall be computed pursuant to § 73.182 and 73.186 of this chapter.~~

- (c) That the applicant is financially qualified to construct and operate the proposed station.
- (d) That the applicant is legally qualified. That the applicant (or the person or persons in control of an applicant corporation or other organization) is of good character and possesses other qualifications sufficient to provide a satisfactory public service.
- (e) That the technical equipment proposed, the location of the transmitter, and other technical phases of operation comply with the regulations governing the same, and the requirements of good engineering practice. ~~(See Technical regulations of this subpart and § 73.188).~~
- (f) That the facilities sought are subject to assignment as requested under existing international agreements and the rules and regulations of the Commission.
- (g) That the population within 1 V/m contour does not exceed 1.0 percent of the population within the 25 mV/m contour: Provided, however, That where the number of persons within the 1V/m contour is 300 or less the provisions of this subparagraph are not applicable.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (h) That, in the case of an application for a Class B or Class D station on a clear channel, the proposed station would radiate, during two hours following local sunrise and two hours preceding local sunset, in any direction toward the 0.1 mV/m groundwave contour of a co-channel United States Class A station, no more than the maximum value permitted under the provisions of § 73.187.
- ~~(i) That, in the case of an application for a Class II-A station (see § 73.22) 25 percent or more of the area or population within the nighttime interference free service contour of the proposed station receives no nighttime interference-free primary service from another station.~~
- (j) (i) That, for all stations, the daytime 5 mV/m contour encompasses the entire principal community to be served. That, for stations in the 535-1605 kHz band, 80% of the principal community is encompassed by the nighttime 5 mV/m contour or the nighttime interference-free contour, whichever value is higher. That, for stations in the 1605-1705 kHz band, 50% of the principal community is encompassed by the 5 mV/m contour or the nighttime interference-free contour, whichever value is higher. That, Class D stations with nighttime authorizations need not demonstrate such coverage during nighttime operation.
- ~~(k)~~ (j) That the public interest, convenience, and necessity will be served through the operation under the proposed assignment.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.25 CLEAR CHANNELS; CLASSES A, CLASS B AND CLASS D STATIONS.

The frequencies in the following tabulations are designed as clear channels and assigned for use by the Classes of stations given:

- (a) On each of the following channels, one Class A station may be assigned, operating with power of 50 kW: 640, 650, 660, 670, 700, 720, 750, 760, 770, 780, 820, 830, 840, 870, 880, 890, 1020, 1030, 1040, 1100, 1120, 1160, 1180, 1200, and 1210 kHz. In Alaska, these frequencies can be used by Class A stations subject to the conditions set forth in § 73.182(a)(1)(ii). On the channels listed in this paragraph, Class B and Class D stations may be assigned.
- (b) To each of the following channels there may be assigned Class A, Class B and Class D stations: 680, 710, 810, 850, 940, 1000, 1060, 1070, 1080, 1090, 1110, 1130, 1140, 1170, 1190, 1500, 1510, 1520, 1530, 1540, 1550, and 1560 kHz.

NOTE: Until superseded by a new agreement, protection of the Bahama Islands shall be in accordance with NARBA. Accordingly, a Class A, Class B or Class D station on 1540 kHz shall restrict its signal to a value no greater than $5\mu\text{V/m}$ groundwave or $25\mu\text{V/m}$ -10% skywave at any point of land in the Bahama Islands, and such stations operating nighttime (i.e. sunset to sunrise at the location of the U.S. station) shall be located not less than 650 miles from the nearest point of land in the Bahama Islands.

- (c) Class A, Class B and Class D stations may be assigned on 540, 690, 730, 740, 800, 860, 900, 990, 1010, 1050, 1220, 1540, 1570, and 1580 kHz.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.26 REGIONAL CHANNELS; CLASS B AND CLASS D STATIONS.*

(a) The following frequencies are designated as regional channels and are assigned for use by Class B and Class D stations: 550, 560, 570, 580, 590, 600, 610, 620, 630, 790, 910, 920, 930, 950, 960, 970, 980, 1150, 1250, 1260, 1270, 1280, 1290, 1300, 1310, 1320, 1330, 1350, 1360, 1370, 1380, 1390, 1410, 1420, 1430, 1440, 1460, 1470, 1480, 1590, 1600, 1610, 1620, 1630, 1640, 1650, 1660, 1670, 1680, 1690, and 1700 kHz.*

(b) Additionally, in Alaska, Hawaii, Puerto Rico, and the U.S. Virgin Islands the frequencies 1230, 1240, 1340, 1400, 1450, and 1490 kHz are designated as Regional channels, and are assigned for use by Class B stations. Stations formerly licensed to these channels in those locations as Class C stations are redesignated as Class B stations.*

(c) No application for new daytime-only stations will be accepted on the channels listed in paragraph (a) of this section. (Added 87-356, 12/1/87)

73.27 LOCAL CHANNELS: CLASS C STATIONS.*

Within the conterminous 48 states, the following frequencies are designated as local channels, and are assigned for use there by Class C stations: 1230, 1240, 1340, 1400, 1450, and 1490 kHz.

73.28 ASSIGNMENT OF STATIONS TO CHANNELS.

(a) The Commission will not make an AM station assignment that does not conform with international requirements and restrictions on spectrum use that the United States has accepted as a signatory to treaties, conventions, and other international agreements. See § 73.1650 for a list of pertinent treaties, conventions and agreements, and § 73.23 for procedural provisions relating to compliance with them. (Revised 91-303, 4/19/92)

(b) Engineering standards now in force domestically differ in some respects from those specified for international purposes. The engineering standards specified for international purposes (see § 73.1650, International Agreements) will be used to determine: (1) The extent to which interference might be caused by a proposed station in the United States to a station in another country; and (2) whether the United States should register an objection to any new or changed assignment notified by another country. The domestic standards in effect in the United States will be used to determine the extent to which interference exists or would exist from a foreign station where the value of such interference enters into a calculation of: (i) The service to be rendered by a proposed operation in the United States; or (ii) the permissible interfering signal from one station in the United States to another United States station. (Revised 91-303, 4/19/92)

*(Added 91-303, 4/19/92)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.29 CLASS C STATIONS ON REGIONAL CHANNELS.*

No license will be granted for the operation of a Class C station on a regional channel.*

73.30 PETITION FOR AUTHORIZATION OF AN ALLOTMENT IN THE 1605-1705 kHz BAND.*

(a) Any party interested in operating an AM broadcast station on one of the ten channels in the 1605-1705 kHz band must file a petition for the establishment of an allotment to its community of license. Each petition must include the following information:*

- (1) Name of community for which allotment is sought;*
- (2) Frequency and call letters of the petitioner's existing AM operation; and *
- (3) Statement as to whether or not AM stereo operation is proposed for the operation in the 1605-1705 kHz band.*

(b) Petitions are to be filed during a filing period to be determined by the Commission. For each filing period, eligible stations will be allotted channels based on the following steps:*

- (1) Stations are ranked in descending order according to the calculated improvement factor.*
- (2) The station with the highest improvement factor is initially allotted the lowest available channel.*
- (3) Successively, each station with the next lowest improvement factor, is allotted an available channel taking into account the possible frequency and location combinations and relationship to previously selected allotments. If a channel is not available for the subject station, previous allotments are examined with respect to an alternate channel, the use of which would make a channel available for the subject station.*
- (4) When it has been determined that, in accordance with the above steps, no channel is available for the subject station, that station is no longer considered and the process continues to the station with the next lowest improvement factor.*

*(Added 91-303, 4/19/92)

[Next Page is No. 14.1]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(c) If awarded an allotment, a petitioner will have sixty (60) days from the date of public notice of selection to file an application for construction permit on FCC Form 301. (See §§ 73.24 and 73.37(e) for filing requirements). Unless instructed by the Commission to do otherwise, the application shall specify Model I facilities. (See § 73.14). Upon grant of the application and subsequent construction of the authorized facility, the applicant must file a license application on FCC Form 302.*

NOTE 1: Until further notice by the Commission, the filing of these petitions is limited to licensees of existing AM stations (excluding Class C stations) operating in the 535-1605 kHz band. ~~Selection among competing petitions will be based on interference reduction. Notwithstanding the exception in Note 4, within each operational category, the station demonstrating the highest value of improvement factor will be afforded the highest priority for an allotment, with the next priority assigned to the station with the next lowest value, and so on, until available allotments are filled. First priority will be assigned to Class D stations located within the primary service contours of U.S. Class A stations that are licensed to serve communities of 100,000 or more for which there exists no local fulltime aural service.~~

NOTE 2: Selection among competing petitions will be based on interference reduction. Notwithstanding the exception contained in Note 5 of this section, within each operational category, the station demonstrating the highest value of improvement factor will be afforded the highest priority for an allotment, with the next priority assigned to the station with next lowest value, and so on, until available allotments are filled.

NOTE 3: The Commission will periodically evaluate the progress of the movement of stations from the 535-1605 kHz band to the 1605-1705 kHz band should continue to be administered on an allotment basis or modified to an assignment method. If appropriate, the Commission will later develop further procedures for use of the 1605-1705 kHz band by existing station licensees and others.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

NOTE 4: Other than the exception specified in note 1 of this section, existing fulltime stations are considered first for selection as described in note 2 of this section. In the event that an allotment availability exists for which no fulltime stations has filed a relevant petition, such allotment may be awarded to a licensed Class D station. If more than one Class D station applies for this migration opportunity, the following priorities will be used in the selection process: First priority— a Class D station located within the 0.5 mV/m—50% contour of a U.S. Class A station and licensed to serve a community of 100,000 or more, for which there exists no local fulltime aural service; Second priority—Class D stations ranked in order of improvement factor, from highest to lowest, considering only those stations with improvement factors greater than zero.

NOTE 5: The preference for AM stereo in the expanded band will be administered as follows: when an allotment under consideration (candidate allotment) conflicts with one or more previously selected allotments (established allotments) and cannot be accommodated in the expanded band, the candidate allotment will be substituted for the previously established allotment provided that: the petitioner for the candidate allotment has made a written commitment to the use of AM stereo and the petitioner for the established allotment has not; the difference between the ranking factors associated with the candidate and established allotments does not exceed 10% of the ranking factor of the candidate allotment; the substitution will not require the displacement of more than one established allotment; and both the candidate allotment and the established allotment are within the same priority group.

73.31 ROUNDING OF NOMINAL POWER SPECIFIED ON APPLICATIONS.

(a) An application filed with the FCC for a new station or for an increase in power of an existing station shall specify nominal power rounded to two significant figures as follows:

Nominal power (kW)	Rounded down to nearest figure (kW)
Below 0.25	0.001
0.25 to 0.99	0.01
1 to 9.9	0.1
10 to 50	1

[Next Page is No. 15]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(b) In rounding the nominal power in accordance with paragraph (a) of this section the RMS shall be adjusted accordingly. If rounding upward to the nearest figure would result in objectionable interference, the nominal power specified on the application is to be rounded downward to the next nearest figure and the RMS adjusted accordingly.

73.33 ANTENNA SYSTEMS; SHOWING REQUIRED.

(a) An application for authority to install a broadcast antenna shall specify a definite site and include full details of the antenna design and expected performance. (Revised 12/12/72)

(b) All data necessary to show compliance with the terms and conditions of the construction permit must be filed with the license application. If the station is using a directional antenna, a proof of performance must also be filed.

73.35 CALCULATION OF IMPROVEMENT FACTORS.

A petition for an allotment (See § 73.30) in the 1605-1705 kHz band filed by an existing fulltime AM station licensed in the 535-1605 kHz band will be ranked according to the station's calculated improvement factor. (See § 73.30). Improvement factors relate to both nighttime and daytime interference conditions and are based on two distinct considerations: (a) Service area lost by other stations due to interference caused by the subject station, and (b) service area of the subject station. These considerations are represented by a ratio. The ratio consists, where applicable, of two separate additive components, one for nighttime and one for daytime. For the nighttime component, to determine the numerator of the ratio (first consideration), calculate the RSS and associated service area of the stations (co- and adjacent channel) to which the subject station causes nighttime interference. Next, repeat the RSS and service area calculations excluding the subject station. The cumulative gain in the above service area is the numerator of the ratio. The denominator (second consideration) is the subject station's interference-free service area. For the daytime component, the composite amount of service lost by co-channel and adjacent channel stations, each taken individually, that are affected by the subject station, excluding the effects of other assignments during each study, will be used as the numerator of the daytime improvement factor. The denominator will consist of the actual daytime service area (0.56 mV/m contour) less any area lost to interference from other assignments. The value of this combined ratio will constitute the petitioner's improvement factor. Notwithstanding the requirements of § 73.153, for uniform comparisons and simplicity, measurement data will not be used for determining improvement factors and FCC figure M-3 ground conductivity values are to be used exclusively in accordance with the pertinent provisions of § 73.183(c)(1).

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.37 APPLICATIONS FOR BROADCAST FACILITIES, SHOWING REQUIRED.

(a) ~~Except as indicated in other paragraphs of this section, no~~ application will be accepted for a new station ~~(or change in frequency of an existing station)~~ if the proposed operation would involve overlap of signal strength contours with any other station as set forth below in this paragraph; and no application will be accepted for a change ~~(other than a change in frequency)~~ of the facilities of an existing station ~~(including the daytime facilities of an existing Class II-A station)~~ if the proposed change would involve such overlap where there is not already such overlap between the stations involved:

EDITOR'S NOTE: The following has been so completely revised, that the previous text is not shown.

Frequency separation (kHz)	Contour of proposed station (classes B, C and D) (mV/m)	Contour of any other station (mV/m)
0	0.005 0.025 0.500	0.100 (Class A). 0.500 (Other classes). 0.025 (All classes).
10	0.250 0.500	0.500 (All classes). 0.250 (All classes).
20	5 5	5 (All classes). 5 (All classes).
30	25	25 (All classes).

(b) In determining overlap received, an application for a new Class C station with daytime power of 250 watts, or greater, shall be considered on the assumption that both the proposed operation and all existing Class C stations operate with 250 watts and utilize non-directional antennas.

(c) If otherwise consistent with the public interest, an application requesting an increase in the daytime power of an existing Class C station on a local channel from 250 watts to a maximum of 1kW, or from 100 watts to a maximum of 500 watts, may be granted notwithstanding overlap prohibited by paragraph (a) of this section. In the case of a 100 watt Class C station increasing daytime power, the provisions of this paragraph shall not be construed to permit an increase in power to more than 500 watts, if prohibited overlap would be involved, even if successive applications should be tendered.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(d) In addition to demonstrating compliance with paragraphs (a), and, as appropriate, (b), and (c) of this section, an application for a new AM broadcast station, or for a major change (see § 73.3571(a)(1)) in an authorized AM broadcast station, as a condition for its acceptance, shall make a satisfactory showing, if new or modified nighttime operation by a Class B station is proposed, that objectionable interference will not result to an authorized station, as determined pursuant to § 73.182(1).

(e) An application for an authorization in the 1605-1705 kHz band which has been selected through the petition process (See § 73.30) is not required to demonstrate compliance with paragraph (a), (b), (c), or (d) of this section. Instead, the applicant need only comply with the terms of the allotment authorization issued by the Commission in response to the earlier petition for establishment of a station in the 1605-1705 kHz band. Within the allotment authorization, the Commission will specify the assigned frequency and the applicable technical requirements.

(f) Stations on 1580, 1590, and 1600 kHz. In addition to the rules governing the authorization of facilities in the 535-1605 kHz band, stations on these frequencies seeking facilities modifications must protect assignments in the 1610-1700 kHz band. Such protection shall be afforded in a manner which considers the spacings that occur or exist between the subject station and a station within the range 1605-1700 kHz. The spacings are the same as those specified for stations in the frequency band 1610-1700 kHz or the current separation distance, whichever is greater. Modifications that would result in a spacing or spacings that fails to meet any of the separations must include a showing that appropriate adjustment has been made to the radiated signal which effectively results in a site-to-site radiation that is equivalent to the radiation of a station with standard Model I facilities (10 kW-D, 1 kW-N, non-DA, 90 degree antenna ht. & ground system) operating in compliance with all of the above separation distances. In those cases where that radiation equivalence value is already exceeded, a station may continue to maintain, but not increase beyond that level.

NOTE 1: In the case of applications for changes in the facilities of AM broadcast stations covered by this section, an application will be accepted even though overlap of field strength contours as mentioned in this section would occur with another station in an area where such overlap does not already exist, if:

- (1) The total area of overlap with that station would not be increased;
- (2) There would be no net increase in the area of overlap with any other station; and
- (3) There would be created no area of overlap with any station with which overlap does not now exist.

[Next Page is No. 19]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

NOTE 2: The provisions of this section concerning prohibited overlap of field strength contours will not apply where:*

- (1) The area of overlap lies entirely over sea water; or*
- (2) The only overlap involved would be that caused to a foreign station, in which case the provisions of the applicable international agreement, as identified in § 73.1650, will apply. When overlap would be received from a foreign station, the provisions of this section will apply, except where there would be overlap with a foreign station with a frequency separation of 20 kHz, in which case the provisions of the international agreement will apply in lieu of this section.*

NOTE 3: In determining the number of "authorized" aural transmission facilities in a given community, applications for that community in hearing or otherwise having protected status under specified "cut-off" procedures shall be considered **as existing stations. In the event that there are two or more mutually exclusive protected applications seeking authorization for the proposed community it will be assumed that only one is "authorized."*

NOTE 4: A "transmission facility" for a community is a station licensed to the community. Such a station provides a "transmission service" for that community.*

*(Added 91-303, 4/19/92)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.44 AM TRANSMISSION SYSTEM EMISSION LIMITATIONS.

(a) The emissions of stations in the AM service shall be attenuated in accordance with the requirements specified in paragraph (b) of this section. Emissions shall be measured using a properly operated and suitable swept-frequency RF spectrum analyzer using a peak hold duration of 10 minutes, no video filtering, and a 300 Hz resolution bandwidth, except that a wider resolution bandwidth may be employed above 11.5 kHz to detect transient emissions. Alternatively, other specialized receivers or monitors with appropriate characteristics may be used to determine compliance with the provisions of this section, provided that any disputes over measurement accuracy are resolved in favor of measurements obtained by using a calibrated spectrum analyzer adjusted as set forth above. (Revised 89-118, 6/30/90)

(b) Emissions 10.2 kHz to 20 kHz removed from the carrier must be attenuated at least 25 dB below the unmodulated carrier level, emissions 20 kHz to 30 kHz removed from the carrier must be attenuated at least 35 dB below the unmodulated carrier level, emissions 30 kHz to 60 kHz removed from the carrier must be attenuated at least $[5 + 1 \text{ dB/kHz}]$ below the unmodulated carrier level, and emissions between 60 kHz and 75 kHz of the carrier frequency must be attenuated at least 65 dB below the unmodulated carrier level. Emissions removed by more than 75 kHz must be attenuated at least $43 + 10 \text{ Log (Power in watts)}$ or 80 dB below the unmodulated carrier level, whichever is the lesser attenuation, except for transmitters having power less than 158 watts, where the attenuation must be at least 65 dB below carrier level. (Revised 89-118, 6/30/90)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(c) Should harmful interference be caused to the reception of other broadcast or non-broadcast stations by out of band emissions, the licensee may be directed to achieve a greater degree of attenuation than specified in paragraphs (a) and (b) of this section. (Added 82-26, 2/19/82)

(d) Measurements to determine compliance with this section for transmitter type acceptance are to be made using signals sampled at the output terminals of the transmitter when operating into an artificial antenna of substantially zero reactance. Measurements made of the emissions of an operating station are to be made at ground level approximately 1 kilometer from the center of the antenna system. When a directional antenna is used, the carrier frequency reference field strength to be used in order of preference shall be: (Added 82-26, 2/19/82)

- (1) The measured non-directional field strength. (Added 82-26, 2/19/82)
- (2) The RMS field strength determined from the measured directional radiation pattern. (Added 82-26, 2/19/82)
- (3) The calculated expected field strength that would be radiated by a non-directional antenna at the station authorized power. (Added 82-26, 2/19/82)

(e) Licensees of stations complying with the ANSI/EIA-549-1988, NRSC-1 AM Preemphasis/Deemphasis and Broadcast Transmission Bandwidth Specifications (NRSC-1), prior to June 30, 1990 or from the original commencement of operation will, until June 30, 1994, be considered to comply with paragraphs (a) and (b) of this section, absent any reason for the Commission to believe otherwise. Such stations are waived from having to make the periodic measurements required in § 73.1590(a)(6) until June 30, 1994. However, licensees must make measurements to determine compliance with paragraphs (a) and (b) of this section upon receipt of an Official Notice of Violation or a Notice of Apparent Liability alleging noncompliance with those provisions, or upon specific request by the Commission.

73.45 AM ANTENNA SYSTEMS.

(a) All applicants for new, additional, or different AM station facilities and all licensees requesting authority to change the transmitting system site of an existing station must specify an antenna system, the efficiency of which complies with the requirements for the class and power of station. (See §§ 73.186 and 73.189.) (Revised 78-88, 11/20/78)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (1) An application for authority to install an AM broadcast antenna must specify a definite site and include full details of the antenna system design and expected performance.
- (2) All data necessary to show compliance with the terms and conditions of the construction permit must be filed with the application for the station license to cover the construction. If the station has constructed a directional antenna, a directional proof of performance must be filed. See §§ 73.150 through 73.157.

(b) The simultaneous use of a common antenna or antenna structure by more than one AM station, or by a station of any other type or service may be authorized provided: (Revised 78-788, 12/20/78)

- (1) Engineering data are submitted showing that satisfactory operation of each station will be obtained without adversely affecting the operation of the other station(s). (Revised 78-788, 11/20/78)
- (2) The minimum field strength for each AM station complies with § 73.189(b). (Revised 78-788, 11/20/78)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(c) Should any changes be made or otherwise occur which would possibly alter the resistance of the antenna system, the licensee must commence the determination of the operating power by a method described in § 73.51(a)(1) or (d). (If the changes are due to the construction of FM or TV transmitting facilities, see §§ 73.316 and 73.685, and 73.1692.) Upon completion of any necessary repairs or adjustments, or upon completion of authorized construction or modifications, the licensee must make a new determination of the antenna resistance using the procedures described in § 73.54. Operating power should then be determined by a direct method as described in § 73.51. Notification of the value of resistance of the antenna system must be filed with the FCC in Washington, D.C. as follows:

- (1) Whenever the measurements show that the antenna or common point resistance differs from that shown on the station authorization by more than 2%, FCC Form 302 must be filed with the information and measurement data specified in § 73.54(d). (Edit. Amdt. 7/22/86)
- (2) Whenever AM stations use direct reading power meters pursuant to § 73.51, a letter notification to the FCC in Washington, DC, Attention: Audio Services Division, Mass Media Bureau, must be filed in accordance with § 73.54(e).

73.49 AM TRANSMISSION SYSTEM FENCING REQUIREMENTS.

Antenna towers having radio frequency potential at the base (series fed, folded unipole, and insulated base antennas) must be enclosed within effective locked fences or other enclosures. Ready access must be provided to each antenna tower base for meter reading and maintenance purposes at all times. However, individual tower fences need not be installed if the towers are contained within a protective property fence. (Added 85-659, 2/18/86)

73.51 DETERMINING OPERATING POWER.

(a) Except in those circumstances described in paragraph (d) of this section, the operating power shall be determined by the direct method. The direct method consists of either: (Revised 84-628-12/12/84)

73.51(a)(1)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (1) using a suitable instrument for determining the antenna's input power directly from the RF voltage, RF current, and phase angle; or (Added 84-628, 12/12/84)
- (2) calculating the product of the licensed antenna or common point resistance at the operating frequency (see § 73.54), and the square of the indicated unmodulated antenna current at that frequency, measured at the point where the resistance has been determined. (Added 84-628, 12/12/84)

(b) The authorized antenna input power for each station shall be equal to the nominal power for such station, with the following exceptions: (Added 72-324, 5/19/72)

- (1) For stations with nominal powers of 5 kW, or less, the authorized antenna input power to directional antennas shall exceed the nominal power by 8 percent. (Revised 82-26, 2/19/83)
- (2) For stations with nominal powers in excess of 5 kW, the authorized antenna input power to directional antennas shall exceed the nominal power by 5.3 percent. (Revised 82-26, 2/19/83)
- (3) In specified cases, it may be necessary to limit the radiated field to a level below that which would result if normal power were delivered to the antenna. In such cases, excess power may be dissipated in the antenna feed circuit, the transmitter may be operated with power output at a level which is less than the rated carrier power, or a combination of the two methods may be used, subject to the conditions given in paragraph (c) of this section. (Revised 77-476, 7/18/77)
 - (i) Where a dissipative network is employed, the authorized antenna current and resistance, and the authorized antenna input power shall be determined at the input terminals of the dissipative network. (Added 72-324, 5/19/72)
 - (ii) Where the authorized antenna input power is less than the nominal power, subject to the conditions set forth in paragraph (c) of this section, the transmitter may be operated at the reduced power level necessary to supply the authorized antenna input power. (Added 72-324, 5/19/72)

[Next Page is No. 37]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(c) Applications for authority to operate with antenna input power which is less than nominal power and/or to employ a dissipative network in the antenna system shall be made on FCC Form 302. The technical information supplied on section II-A of this form shall be that applying to the proposed conditions of operation. In addition, the following information shall be furnished, as pertinent: (Revised 72-324, 5/19/72)

- (1) Full details of any network employed for the purpose of dissipating radio frequency energy otherwise delivered to the antenna (see § 73.54). (Revised 72-324, 5/19/72)
- (2) A showing that the transmitter has been type accepted or notified for operation at the proposed power output level, or, in lieu thereof: (Revised 84-21, 3/5/84)
 - (i) A full description of the means by which transmitter output power will be reduced. (Added 72-324, 5/19/72)
 - (ii) Where the proposed transmitter power output level(s) is less than 90% of the rated power of the transmitter, equipment performance measurements must be made to confirm that the station transmissions conform to the emission limitation specified in § 73.44, under all conditions of program operation. (Edit. Amdt. 4/2/87)
 - (iii) A showing that, at the proposed power output level, means are provided for varying the transmitter output within a tolerance of ± 10 percent, to compensate for variations in line voltage or other factors which may affect the power output level. (Revised 73-324, 5/19/72)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

EDITOR'S NOTE: Section 73.51(d) has been so completely revised by Amendment No. 84-628 that the previous wording is not shown.

(d) When it is not possible or appropriate to use the direct method of power determination due to technical reasons, the indirect method of determining operating power (see paragraphs (e) and (f) of this section) may be used on a temporary basis. A notation must be made in the station log indicating the dates of commencement and termination of measurement using the indirect method of power determination. (Added 84-628, 12/21/84)

(e) The antenna input power is determined indirectly by applying an appropriate factor to the input power to the last radio-frequency power amplifier stage of the transmitter, using the following formula: (Revised 79-369, 7/2/79)

$$\text{Antenna input power} = E_p \times I_p \times F$$

Where:

E_p = DC input voltage of final radio stage.

I_p = Total DC input current of final radio stage.

F = Efficiency factor.

- (1) If the formula is not appropriate for the design of the transmitter final amplifier, use a formula specified by the transmitter manufacturer with other appropriate operating parameters. (Added 79-369, 7/2/79)
- (2) The value of F applicable to each mode of operation must be determined and a record kept thereof with a notation as to its derivation. This factor is to be established by one of the methods described in paragraph (f) of this section and retained in the station records. (Edit. Amdt. 1/27/84)

(f) The value of F is to be determined by one of the following procedures listed in order of preference. (Revised 79-369, 7/2/79)

- (1) If the station had previously been authorized and operating by determining the antenna input power by the direct method, the factor F is the ratio of the antenna input power (determined by the direct method) to the corresponding final radio frequency power amplifier input power. (Revised 83-338, 9/19/83)

[Next Page is No. 40.3]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (2) If a station has not been previously in regular operation with the power authorized for the period of indirect power determination, if a new transmitter has been installed, or if, for any other reason, the determination of the factor F by the method described in (1) of this paragraph is impracticable: (Revised 79-369, 7/2/79)
 - (i) The factor F as shown in the transmitter manufacturer's test report, if such test report specified a unique value of F for the power level and frequency used; or, (Revised 83-338, 9/19/83)
 - (ii) The value determined by reference to the following table:

Factor (F)	Method of modulation	Maximum rated carrier power	Class of amplifier
0.70	Plate	1 kW or less	
.80	Plate	2.5 kW and over	
.35	Low level	0.25 kW and over	B
.65	Low level	0.25 kW and over	BC ¹
.35	Grid	0.25 kW and over	

¹All linear amplifier operation where efficiency approaches that of Class C operation. (Added 72-324, 5/19/72)

73.53 REQUIREMENTS FOR AUTHORIZATION OF ANTENNA MONITORS.

(a) ~~General requirements: Antenna monitors shall be verified for compliance with the technical requirements in this section. The procedure for verification is specified in subpart J of part 2 of the FCC's rules.~~

- (1) Antenna monitors shall be type approved or notified by the FCC. Effective March 5, 1984, only grants of notification will be issued for antenna monitors. (Added 84-21, 3/5/84)
- (2) Notification can be obtained by following the procedures specified in Subpart J of Part 2 of the FCC's Rules. (Added 84-21, 3/5/84)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (b) An antenna monitor ~~eligible for authorization by the FCC~~ shall meet the following specifications:
- (1) The monitor shall be designed to operate in the 535-1705 kHz band. (Revised 91-303, 4/19/92)

NOTE: In paragraph (b)(1) of this section, the requirement that monitors be capable of operation in the 535-1705 kHz band shall apply only to equipment manufactured after July 1, 1992. Use of a monitor in the 1605-1705 kHz band which is not approved for such operation will be permitted pending the general availability of 535-1705 kHz band monitors if a manufacturer can demonstrate, in the interim, that its monitor performs in accordance with the standards in this section on these 10 channels. (Added 91-303, 4/19/92)

- (2) The monitor shall be capable of indicating any phase difference between two RF voltages of the same frequency over a range of from 0° to 360°.
- (3) The monitor shall be capable of indicating the relative amplitude of two RF voltages.
- (4) The device used to indicate phase differences shall indicate in degrees, and shall be graduated in increments of 2°, or less. If a digital indicator is provided, the smallest increment shall be 0.5°, or less. (Added 73-40, 2/23/73)
- (5) The device used to indicate relative amplitudes shall be graduated in increments which are 1 percent, or less, of the full scale value. If a digital indicator is provided, the smallest increment shall be 0.1 percent, or less, of the full scale value. (Added 73-40, 2/23/73)
- (6) The monitor shall be equipped with means, if necessary, to resolve ambiguities in indication. (Added 73-40, 2/23/73)
- (7) If the monitor is provided with more than one RF input terminal in addition to a reference input terminal, appropriate switching shall be provided in the monitor so that the signal at each of these RF inputs may be selected separately for comparison with the reference input signal. (Added 73-40, 2/23/73)
- (8) Each RF input of the monitor shall provide a termination of such characteristics that, when connected to a sampling line of an impedance specified by the manufacturer, the voltage reflection coefficient shall be 3 percent or less. (Added 73-40, 2/23/73)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (9) The monitor, if intended for use by stations operating directional antenna systems by remote control, shall be designed so that the switching functions required by paragraph (b)(7) of this section may be performed from a point external to the monitor, and phase and amplitude indications be provided by external meters. The indications of external meters furnished by the manufacturer shall meet the specifications for accuracy and repeatability of the monitor itself, and the connection of these meters to the monitor, or of other indicating instruments with electrical characteristics meeting the specifications of the monitor manufacturer shall not affect adversely the performance of the monitor in any respect. (Revised 95-412, 12/1/95)
- (10) ~~The monitor must be accompanied by~~ complete and correct schematic diagrams and operating instructions ~~when submitted for type approval. When approved under notification, these materials shall be retained by the applicant party responsible for verification of the equipment and submitted to the FCC upon request. For the purpose of equipment authorization, and not submitted unless otherwise requested by the authorization,~~ these diagrams and instructions shall be considered as part of the monitor.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (11) When an RF signal of an amplitude within a range specified by the manufacturer is applied to the reference RF input terminal of the monitor, and another RF signal of the same frequency and of equal or lower amplitude is applied to any other selected RF input terminal, indications shall be provided meeting the following specifications: (Revised 85-659, 2/18/86)
- (i) The accuracy with which any difference in the phases of the applied signals is indicated shall be $\pm 1^\circ$, or better, for signal amplitude ratios of from 2:1 to 1:1, and $\pm 2^\circ$, or better, for signal amplitude ratios in excess of 2:1 and up to 5:1. (Added 73-40, 2/23/73)
 - (ii) The repeatability of indication of any difference in the phases of the applied signals shall be $\pm 1^\circ$, or better. (Added 73-40, 2/23/73)
 - (iii) The accuracy with which the relative amplitudes of the applied signals is indicated, over a range in which the ratio of these amplitudes is between 2:1 and 1:1, shall be ± 2 percent of the amplitude ratio, or better, and for amplitude ratios in excess of 2:1 and up to 5:1, ± 5 percent of the ratio, or better. (Added 73-40, 2/23/73)
 - (iv) The repeatability of indication of the relative amplitudes of the applied signals, over a range where the ratio of these amplitudes is between 5:1 and 1:1, shall be ± 2 percent of the amplitude ratio, or better. (Added 73-40, 2/23/73)
 - (v) The modulation of the RF signals by a sinusoidal wave of any frequency between 100 and 10,000 Hz, at any amplitude up to 90 percent shall cause no deviation in an indated phase difference from its value, as determined without modulation, greater than $\pm 0.5^\circ$. (Added 73-40, 2/23/73)
- (12) The performance specifications set forth in paragraph (c)(13) of this section, shall be met when the monitor is operated and tested under the following conditions. (Revised 85-659, 2/18/86)
- (i) After continuous operation for 1 hour, the monitor shall be calibrated and adjusted in accordance with the manufacturer's instructions. (Added 73-40, 2/23/73)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (ii) The monitor shall be subjected to variations in ambient temperature between the limits of 10 and 40°C; external meters furnished by the manufacturer will be subjected to variations between 15 and 30°C. (Added 73-40, 2/23/73)
- (iii) Powerline supply voltage shall be varied over a range of from 10 percent below to 10 percent above the rated supply voltage. (Added 73-40, 2/23/73)
- (iv) The amplitude of the reference signal shall be varied over the operating range specified by the manufacturer, and in any case over a range of maximum to minimum values of 3 to 1. (Added 73-40, 2/23/73)
- (v) The amplitude of the comparison signal shall be varied from a value which is 0.2 of the amplitude of the reference signal to a value which is equal in amplitude to the reference signal. (Added 73-40, 2/23/73)
- (vi) Accuracy shall be determined for the most adverse combination of conditions set forth above. (Added 73-40, 2/23/73)
- (vii) Repeatability shall be determined as that which may be achieved under the specified test conditions over a period of 7 days, during which no calibrations or adjustment of the instrument, subsequent to the initial calibration, shall be made. (Added 73-40, 2/23/73)
- (viii) The effects of modulation of the RF signal shall be separately determined, and shall not be included in established values for accuracy and repeatability. (Added 73-40, 2/23/73)

(c) A station determined to have a critical directional antenna must use an antenna monitor having high tolerance characteristics determined on an individual basis, and specified on the station authorization. Such monitors are not subject to the authorization. Such monitors are not subject to the authorization of paragraph (a), however they may be used only at the station for which they were specified.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.54 ANTENNA RESISTANCE AND REACTANCE MEASUREMENTS.

(a) The resistance of an omnidirectional series fed antenna is measured at either the base of the antenna without intervening coupling or tuning network, or at the point the transmission line connects to the output terminals of the transmitter. The resistance of a shunt excited antenna may be measured at the point the radio frequency energy is transferred to the feed wire circuit or at the output terminals of the transmitter. (Revised 83-659, 2/18/86)

(b) The resistance and reactance of a directional antenna shall be measured at the point of common radiofrequency input to the directional antenna system. The following conditions shall obtain: (Revised 69-1227, 12/18/69)

- (1) The antenna shall be finally adjusted for the required radiation pattern. (Revised 69-1227, 12/18/69)
- (2) The reactance at the operating frequency and at the point of measurement shall be adjusted to zero, or as near thereto as practicable. (Revised 69-1227, 12/18/69)

- (c) (1) The resistance of an antenna shall be determined by the following procedures: (Revised 69-1227, 12/18/69)

A series of discrete measurements shall be made over a band of frequencies extending from approximately 25 kHz below the operating frequency to approximately 25 kHz above that frequency, at intervals of approximately 5 kHz. The measured values shall be plotted on a linear graph, with frequency as the abscissa and resistance as the ordinate. A smooth curve shall be drawn through the plotted values. The resistance value corresponding to the point of intersection of the curve and the ordinate representing the operating frequency of the station shall be the resistance of the antenna. (Revised 69-1227, 12/18/69)

- (2) For a directional antenna, the reactance of the antenna shall be determined by a procedure similar to that described in subparagraph (1) of this paragraph. (Revised 69-1227, 12/18/69)

[Next Page is No. 41]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(d) A letter of nNotification must be filed with the FCC in Washington, DC, Attention: Audio Services Division, Mass Media Bureau, when determining power by the direct method pursuant to Section§ 73.51 and must specify the antenna or common point resistance at the operating frequency. The following information must also be kept on file at the station

- (1) A full description of the method used to make measurements. (Added 85-659, 2/18/86)
- (2) A schematic diagram showing clearly all components of coupling circuits, the point of resistance measurement, the location of the antenna ammeter, connections to and characteristics of all tower lighting isolation circuits, static drains, and any other fixtures connected to and supported by the antenna, including other antennas and associated networks. Any network or circuit component used to dissipate radio frequency power shall be specifically identified and the impedances of all components which control the level of power dissipation, and the effective input resistance of the network must be indicated. (Added 85-659, 2/18/86)

(e) AM stations using direct reading power meters in accordance with § 73.51, can either submit the information required by paragraph (d) of this section or submit a statement indicating that such a meter is being used. Subsequent station licenses will indicate the use of a direct reading power meter in lieu of the antenna resistance value in such a situation. (Edit. Amdt. 7/22/86)

73.57 REMOTE READING ANTENNA AND COMMON POINT AMMETERS.

Remote reading antenna and common point ammeters may be used without further authority according to the following conditions: (Added 76-789, 9/8/76)

- (a) Remote reading antenna or common point ammeters may be provided by: (Added 76-789, 9/8/76)
 - (1) Inserting second radio frequency current sensing device directly in the antenna circuit with remote leads to the indicating instruments. (Added 76-789, 9/8/76)
 - (2) Inductive coupling to radio frequency current sensing device for providing direct current to indicating instrument. (Added 76-789, 9/8/76)
 - (3) Capacity coupling to radio frequency current sensing device for providing direct current to indicating instrument. (Added 76-789, 9/8/76)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (4) Current transformer connected to radio frequency current sensing device for providing current to indicating instrument. (Added 76-789, 9/8/76)
 - (5) Using transmission line current meter at transmitter as remote reading ammeter. See paragraph (c) of this section. (Added 76-789, 9/8/76)
 - (6) Using the indications of the antenna (phase) monitor, provided that when the monitor is used to obtain remote reading indication of non-directional antenna base current, the monitor calibration can be independently made and maintained for each mode of operation. (Added 76-789, 9/8/76)
- (b) Devices used for obtaining remote reading antenna or common point current indications, except antenna monitor coupling elements, shall be located at the same point as, but below (transmitter side) the associated main ammeter. (Added 76-789, 9/8/76)
 - (c) In the case of shunt-excited antennas, the transmission line current meter at the transmitter may be considered as the remote antenna ammeter provided the transmission line is terminated directly into the excitation circuit feed line, which shall employ series tuning only (no shunt circuits of any type shall be employed) and insofar as practicable, the type and scale of the transmission line meter should be the same as those of the excitation circuit feed line meter (meter in slant wire feed line or equivalent). (Added 76-789, 9/8/76)
 - (d) Each remote reading ammeter shall be accurate to within 2 percent of the value read on its corresponding regular ammeter.
 - (e) All remote reading ammeters shall conform with the specifications for regular antenna ammeters. (Added 76-789, 9/8/76)

[Next Page is No. 42.1]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(f) If conditions beyond the control of the licensee prevent the restoration of the meter to service within the above allowed period, information requested in accordance with § 73.3549 may be filed with the FCC in Washington, DC. Attention: Audio Services Division, Mass Media Bureau, to request ~~Engineer in Charge of the radio district in which the station is located for~~ such additional time as may be required to complete repairs of the defective instrument.

73.61 AM DIRECTIONAL ANTENNA FIELD STRENGTH MEASUREMENTS.

(a) Each AM station using a directional antenna must make field strength measurements at the monitoring point locations specified in the instrument of authorization, as often as necessary to ensure that the field at those points does not exceed the values specified in the station authorization. Additionally, stations not having an approved sampling system must make the measurements once each calendar quarter at intervals not exceeding 120 days. The provision of this paragraph supersedes any schedule specified on a station license issued prior to January 1, 1986. The results of the measurements are to be entered into the station log pursuant to the provisions of § 73.1820. (Added 85-590, 1/1/86)

(b) Partial proof of performance measurements using the procedures described in § 73.154 must be made whenever the licensee has reason to believe that the radiated field may be exceeding the limits for which the station was most recently authorized to operate. (Added 85-590, 1/1/86)

(c) A station may be directed to make a partial proof of performance by the FCC whenever there is an indication that the antenna is not operating as authorized. (Added 85-590, 1/1/86)

73.62 DIRECTIONAL ANTENNA SYSTEM TOLERANCES.

(a) Each AM station operating a directional antenna must maintain the indicated relative amplitudes of the antenna base currents and antenna monitor currents within 5% of the values specified therein. Directional antenna relative phase currents must be maintained to within $\pm 3^\circ$ of the values specified on the instrument of authorization, unless other tolerances are specified therein. (Edit. Amdt. 7/31/85)

(b) Whenever the operating parameters of a directional antenna cannot be maintained within the tolerances specified in paragraph (a) of this section, the following procedures will apply: (Added 95-412, 12/1/95)

- (1) The licensee shall measure and log every monitoring point at least once for each mode of directional operation. Subsequent variations in operating parameters will require the remeasuring and logging of every monitoring point to assure that the authorized monitoring point limits are not being exceeded. (Added 95-412, 12/1/95)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (2) Provided each monitoring point is within its specified limit, operation may continue for a period up to 30 days before a request for Special Temporary Authority (STA) must be filed, pursuant to paragraph (b)(4) of this section, to operate with parameters at variance from the provisions of paragraph (a) of this section.
- (3) If any monitoring point exceeds its specified limit, the licensee must either terminate operation within 3 hours or reduce power in accordance with the applicable provisions of § 73.1350(d), in order to eliminate any possibility of interference or excessive radiation in any direction.
- (4) If operation pursuant to paragraph (b)(3) of this section is necessary, or before the 30 day period specified in paragraph (b)(2) of this section expires, the licensee must request a Special Temporary Authority (STA) in accordance with § 73.1635 to continue operation with parameters at variance and/or with reduced power along with a statement certifying that all monitoring points will be continuously maintained within their specified limits.
- (5) The licensee will be permitted 24 hours to accomplish the actions specified in paragraph (b)(1) of this section; *provided that*, the date and time of the failure to maintain proper operating parameters has been recorded in the station log.

(c) In any other situation in which it might reasonably be anticipated that the operating parameters might vary out of tolerance (such as planned array repairs or adjustment and proofing procedures), the licensee shall, *before such activity is undertaken*, obtain an STA in accordance with § 73.1635 in order to operate with parameters at variance and/or with reduced power as required to maintain all monitoring points within their specified limits.

73.68 SAMPLING SYSTEMS FOR ANTENNA MONITORS.

(a) Each AM station permittee authorized to construct a new directional antenna system, must install the sampling system in accordance with the following specifications: (Added 85-590, 1/1/86)

- (1) Devices used to extract or sample the current and the transmission line connecting the sampling elements to the antenna monitor must provide accurate and stable signals to the monitor (e.g., rigidly mounted and non-rotatable loops and all system components protected from physical and environmental disturbances). (Added 85-590, 1/1/86)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (2) Sampling lines for critical directional antennas (see § 73.14) must be of uniform length. Sampling lines for non-critical directional antennas may be of different lengths provided the phase differences of signals at the monitor are less than 0.5° between the shortest and longest cable lengths due to temperature variations to which the system is exposed. (Added 85-590, 1/1/86)
- (3) Other configurations of sampling systems may be used upon demonstration of stable operation to the FCC. (Added 85-590, 1/1/86)

(b) A station having an antenna sampling system constructed according to the specifications given in paragraph (a) of this section, may obtain approval of that system by submitting an informal letter request to the FCC in Washington, DC, Attention: Audio Services Division, Mass Media Bureau. The request for approval, signed by the licensee or authorized representative, must contain sufficient information to show that the sampling system is in compliance with all requirements of paragraph (a) of this section.

NOTE: A public notice dated December 9, 1985 giving additional information on approval of antenna sampling systems is available through the Internet at <http://www.fcc.gov/mmb/asd/decdoc/letter/1985-12-09-sample.html>, upon request ~~from the FCC's current copy contractor.~~

(c) In the event that the antenna monitor sampling system is temporarily out of service for repair or replacement, the station may be operated, pending completion of repairs or replacement, for a period not exceeding 120 days without further authority from the FCC if all other operating parameters and the field monitoring point values are within the limits specified on the station authorization. (Added 85-590, 1/1/86)

(d) If the antenna sampling system is modified or components of the sampling system are replaced, the following procedure shall be followed: (Added 85-590, 1/1/86)

- (1) Special Temporary Authority (see § 73.1635) shall be requested and obtained from the Commission's Audio Services Division, Mass Media Bureau in Washington to operate with parameters at variance with licensed values pending issuance of a modified license specifying parameters subsequent to modification or replacement of components.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (2) Immediately prior to modification or replacement of components of the sampling system not on the towers, and after a verification that all monitoring point values, base current ratios and operating parameters are within the limits or tolerances specified in the instrument of authorization or the pertinent rules, the following indications must be read for each radiation pattern: Final plate current and plate voltage, common point current, base currents and their ratios, antenna monitor phase and current indications, and the field strength at each monitoring point. Subsequent to these modifications or changes the above procedure must be repeated. (Added 85-590, 1/1/86)
- (3) If that portion of the sampling system above the base of the towers is modified or components replaced, a partial proof of performance shall be executed in accordance with § 73.154 subsequent to these changes. The partial proof of performance shall be accompanied by common point impedance measurements made in accordance with § 73.54.
- (4) Request for modification of license shall be submitted to the FCC in Washington, DC, within 30 days of the date of sampling system modification or replacement. Such request shall specify the transmitter plate voltage and plate current, common point current, base currents and their ratios, antenna monitor phase and current indications, and all other data obtained pursuant to this paragraph. (Edit. Amdt., 3/24/86)

(e) If an existing sampling system is found to be patently of marginal construction, or where the performance of a directional antenna is found to be unsatisfactory, and this deficiency reasonably may be attributed, in whole or in part, to inadequacies in the antenna monitoring system, the FCC may require the reconstruction of the sampling system in accordance with requirements specified above. (Added 85-590, 1/1/86)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.69 ANTENNA MONITORS.

(a) Each station using a directional antenna must have in operation at the transmitter site an FCC authorized antenna monitor. However, if the station authorization sets specific tolerances within which the phase and amplitude relationships must be maintained, or requires the use of a monitor of specified repeatability, resolution or accuracy, the antenna monitor used will be authorized on an individual basis. (Revised 84-21, 3/5/84)

- (1) Normally, the antenna monitor is to be installed immediately adjacent to the transmitter and antenna phasing equipment. ~~When the phasing equipment is located within the antenna field at a distance from the transmitter, However, the monitor may be located with the phasing equipment in suitable housing such that the temperature variation elsewhere provided that its environment~~ is maintained at all times within those limits under which the monitor was type-approved. Additionally, remote switching and metering must be installed so that all required monitor indications can be observed at the position(s) where the duty operator is located.
- (2) The antenna monitor installed at a station operating a directional antenna by remote control, ~~using extension meters to read and log the monitor indications~~ or when the monitor is installed in the antenna field at a distance from the transmitter, must be designed and authorized for such use in accordance with the provisions of § 73.53(b)(9).

(b) In the event that the antenna monitor sampling system is temporarily out of service for repair or replacement, the station may be operated, pending completion of repairs or replacement, for a period not exceeding 120 days without further authority from the FCC if all other operating parameters, and the field monitoring point values are within the limits specified on the station authorization. (Added 85-590, 1/1/86)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(c) If conditions beyond the control ~~of~~ for the licensee prevent the restoration of the monitor to service within the allowed period, informal ~~letter~~ request in accordance with § 73.3549 of the Commission's rules must be filed with the FCC, Attention: Audio Services Division, Mass Media Bureau in Washington, DC ~~Engineer in Charge of the radio district in which the station is located~~ for such additional time as may be required to complete repairs of the defective instrument.

(d) If an authorized antenna monitor is replaced by another antenna monitor, the following procedure shall be followed: (Added 75-665, 6/18/75)

- (1) Temporary authority shall be requested and obtained from the Commission in Washington to operate with parameters at variance with licensed values, pending issuance of a modified license specifying new parameters. (Added 75-665, 6/18/75)
- (2) Immediately prior to the replacement of the antenna monitor, after a verification that all monitoring point values and base current ratios are within the limits or tolerances specified in the instrument of authorization or the pertinent rules, the following indications must be read for each radiation pattern: Final plate current and plate voltage, common point current, base currents, antenna monitor phase and current indications, and the field strength at each monitoring point. (Revised 83-338, 9/19/83)
- (3) With the new monitor substituted for the old, all indications specified in paragraph (d)(2) of this section, again must be read. If no change has occurred in the indication for any parameter other than the indications of the antenna monitor the new antenna monitor indications must be deemed to be those reflecting correct array adjustments. (Revised 83-338, 9/19/83)
- (4) If it cannot be established by the observations required in paragraph (d)(2) of this section that base current ratios and monitoring point values are within the tolerances or limits prescribed by the rules and the instrument of authorization, or if the substitution of the new antenna monitor for the old results in changes in these parameters, a partial proof of performance shall be executed and analyzed in accordance with § 73.154. (Revised 91-303, 4/19/92)

[Next Page is No. 48.5]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (5) An informal letter request for modification of license shall be submitted to the FCC, Attention: Audio Services Division, Mass Media Bureau in Washington, DC Commission in Washington, D.C., within 30 days of the date of monitor replacement. Such request shall specify the make, type, and serial number of the replacement monitor, phase and sample current indications, and other data obtained pursuant to this paragraph (d) of this section.

(e) The antenna monitor must be calibrated according to manufacturer's instructions as often as necessary to ensure its proper operation. (Revised 83-338, 9/19/83)

73.72 OPERATING DURING THE EXPERIMENTAL PERIOD.

(a) An AM station may operate during the experimental period (the time between midnight and sunrise, local time) on its assigned frequency and with its authorized power for the routine testing and maintenance of its transmitting system, and for conducting experimentation under an experimental authorization, provided no interference is caused to other stations maintaining a regular operating schedule within such period. (Revised 91-303, 4/19/92)

(b) No station licensed for "daytime" or "specified hours" of operation may broadcast any regular or scheduled program during this period.

(c) The licensee of an AM station shall operate or refrain from operating its station during the experimental period as directed by the FCC to facilitate frequency measurements or for the determination of interference. (Revised 78-502, 8/1/78)

[Next Page is No. 53]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.88 BLANKETING INTERFERENCE.

The licensee of each broadcast station is required to satisfy all reasonable complaints of blanketing interference within the 1 V/m.

NOTE: For more detailed instructions concerning operational responsibilities of licensees and permits under this section, see § 73.318(b), (c) and (d).

[Next Page is No. 55]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.99 PRESUNRISE SERVICE AUTHORIZATION (PSRA) AND POSTSUNSET SERVICE AUTHORIZATION (PSSA).*

(a) To provide maximum uniformity in early morning operation compatible with interference considerations, and to provide for additional service during early evening hours for Class D stations, provisions are made for presunrise service and postsunset service. The permissible power for presunrise or postsunset service authorizations shall not exceed 500 watts, or the authorized daytime or critical hours power** (whichever is less). Calculation of the permissible power shall consider only co-channel stations for interference protection purposes.*

(b) Presunrise service authorizations (PSRA) permit:*

- (1) Class D stations operating on Mexican, Bahamian, and Canadian priority Class A clear channels to commence PSRA operation at 6 a.m. local time and to continue such operation until sunrise times specified in their basic instruments of authorization.*
- (2) Class D stations situated outside 0.5 mV/m-50% skywave contours of co-channel U.S. Class A stations to commence PSRA operation at 6 a.m. local time and to continue such operation until sunrise times specified in their basic instruments of authorization.*
- (3) Class D stations located within co-channel 0.5 mV/m-50% skywave contours of U.S. Class A stations, to commence PSRA operation either at 6 a.m. local time, or at sunrise at the nearest Class A station located east of the Class D station (whichever is later), and to continue such operation until the sunrise times specified in their basic instruments of authorization.*
- (4) Class B and Class D stations on regional channels to commence PSRA operation at 6 a.m. local time and to continue such operation until local sunrise times specified in their basic instruments of authorization.*

(c) Extended daylight saving time pre-sunrise authorizations:*

- (1) Between the first Sunday in April and the end of the month of April, Class D stations will be permitted to conduct pre-sunrise operation beginning at 6 a.m. local time with a maximum power of 500 watts (not to exceed the station's regular daytime or critical hours power), reduced as necessary to comply with the following requirements:
 - (i) Full protection is to be provided as specified in applicable international agreements.*

*(Revised 91-303, 4/19/92)

73.99(c)(1)(ii)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (ii) Protection is to be provided to the 0.5 mV/m groundwave signals of co-channel U.S. Class A stations; protection to the 0.5 mV/m-50% sky-wave contours of these stations is not required.*
 - (iii) In determining the protection to be provided, the effect of each interfering signal will be evaluated separately. The presence of interference from other stations will not reduce or eliminate the required protection.*
 - (iv) Notwithstanding the requirements of paragraph (c)(1)(ii) and (iii) of this section, the stations will be permitted to operate with a minimum power of 10 watts unless a lower power is required by international agreement.*
- (2) The Commission will issue appropriate authorizations to Class D stations not previously eligible to operate during this period. Class D stations authorized to operate during this presunrise period may continue to operate under their current authorization.*
- (d) Postsunset service authorizations (PSSA) permit:*
- (1) Class D stations located on Mexican, Bahamian, and Canadian priority Class A clear channels to commence PSSA operation at sunset times specified in their basic instruments of authorization and to continue for two hours after such specified times.*
 - (2) Class D stations situated outside 0.5 mV/m-50% skywave contours of cochannel U.S. Class A Stations to commence PSSA operations at sunset times specified in their basic instruments of authorization and to continue for two hours after such specified times.*
 - (3) Class D stations located within co-channel 0.5 mV/m-50% skywave contours of U.S. Class A stations to commence PSSA operation at sunset times specified in their basic instruments of authorization and to continue such operation until two hours past such specified times, or until sunset at the nearest Class A station located west of the Class D station, whichever is earlier. Class D stations located west of the Class A station do not qualify for PSSA operation.*
 - (4) Class D stations on regional channels to commence PSSA operation at sunset times specified in their basic instruments of authorization and to continue such operation until two hours past such specified times.*

*(Revised 91-303, 4/19/92)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(e) Procedural Matters.

- (1) Applications for PSRA and PSSA operation are not required. Instead, the FCC will calculate the periods of such operation and the power to be used pursuant to the provisions of this section and the protection requirements contained in applicable international agreements. Licensees will be notified of permissible power and times of operation. Presunrise and Postsunset service authority permits operation on a secondary basis and does not confer license rights. No request for such authority need be filed. However, stations intending to operate PSRA or PSSA shall submit by letter, signed as specified in § 73.3513, the following information:
 - (i) Licensee name, station call letters and station location.
 - (ii) Indication as to whether PSRA operation, PSSA operation, or both, is intended by the station.
 - (iii) A description of the method whereby any necessary power reduction will be achieved.
- (2) Upon submission of the required information, such operation may begin without further authority.

(f) Technical criteria. Calculations to determine whether there is objectionable interference will be determined in accordance with the AM Broadcast Technical Standards, §§ 73.182 through 73.190, and applicable international agreements. Calculations will be performed using daytime antenna systems, or critical hours antenna systems when specified on the license. In performing calculations to determine assigned power and times for commencement of PSRA and PSSA operation, the following standards and criteria will be used:

- (1) Class D stations operating in accordance with paragraphs (b)(1), (b)(2), (d)(1), and (d)(2) of this section are required to protect the nighttime 0.5 mV/m-50% skywave contours of co-channel Class A stations. Where a 0.5 mV/m-50% skywave signal from the Class A station is not produced, the 0.5 mV/m groundwave contour shall be protected.
- (2) Class D stations are required to fully protect foreign Class B and Class C stations when operating PSRA and PSSA; Class D stations operating PSSA are required to fully protect U.S. Class B stations. For purposes of determining protection, the nighttime RSS limit will be used in the determination of maximum permissible power.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (3) Class D stations operating in accordance with paragraphs (d)(2) and (d)(3) of this section are required to restrict maximum 10% skywave radiation at any point on the daytime 0.1 mV/m groundwave contour of a co-channel Class A station to 25 uV/m. The location of the 0.1 mV/m contour of the Class A station will be determined by use of Figure M3, *Estimated Ground Conductivity in the United States*. When the 0.1 mV/m contour extends beyond the national boundary, the international boundary shall be considered the 0.1 mV/m contour.
- (4) Class B and Class D stations on regional channels operating PSRA and PSSA (Class D only) are required to provide full protection to co-channel foreign Class B and Class C stations.
- (5) Class D stations on regional channels operating PSSA beyond 6 p.m. local time are required to fully protect U.S. Class B stations.
- (6) The protection that Class D stations on regional channels are required to provide when operating PSSA until 6 p.m. local time is as follows:
 - (i) For the first half-hour of PSSA operation, protection will be calculated at sunset plus 30 minutes at the site of the Class D station:
 - (ii) For the second half-hour of PSSA operation, protection will be calculated at sunset plus one hour at the site of the Class D station:
 - (iii) For the second hour of PSSA operation, protection will be calculated at sunset plus two hours at the site of the Class D station;
 - (iv) Minimum powers during the period until 6 p.m. local time shall be permitted as follows:

Calculated power	Adjusted minimum power
From 1 to 45 watts	50 watts.
Above 45 to 70 watts	75 watts.
Above 70 to 100 watts	100 watts.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (7) For protection purposes, the nighttime 25% RSS limit will be used in the determination of maximum permissible power.

(g) Calculations made under paragraph (d) of this section may not take outstanding PSRA or PSSA operations into account, nor will the grant of a PSRA or PSSA confer any degree of interference protection on the holder thereof.*

(h) Operation under a PSRA or PSSA is not mandatory, and will not be included in determining compliance with the requirements of § 73.1740. To the extent actually undertaken, however, presunrise operation will be considered by the FCC in determining overall compliance with past programming representations and station policy concerning commercial matter.*

(i) The PSRA or PSSA is secondary to the basic instrument of authorization with which it is to be associated. The PSRA or PSSA may be suspended, modified, or withdrawn by the FCC, without prior notice or right to hearing, if necessary to resolve interference conflicts, to implement agreements with foreign governments, or in other circumstances warranting such action. Moreover, the PSA or PSSA does not extend beyond the term of the basic authorization.*

(j) The Commission will periodically recalculate maximum permissible power and times for commencing PSRA and PSSA for each Class D station operating in accordance with paragraph (c) of this section. The Commission will calculate the maximum power at which each individual station may conduct presunrise operations during extended daylight saving time and shall issue conforming authorizations. These original notifications and subsequent notifications should be associated with the station's authorization. Upon notification of new power and time of commencing operation, affected stations shall make necessary adjustments within 30 days.*

*(Added 91-303, 4/19/92)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(k) A PSRA and PSSA does not require compliance with §§ 73.45, 73.182 and 73.1560 where the operation might otherwise be considered as technically substandard. Further, the requirements of paragraphs (a)(5), (b)(2), (c)(2), and (d)(2) of § 73.1215 concerning the scale ranges of transmission system indicating instruments are waived for PSRA and PSSA operation except for the radio frequency ammeters used in determining antenna input power. *

- (1) A station having an antenna monitor incapable of functioning at the authorized PSRA and PSSA power when using a directional antenna shall take the monitor reading using an unmodulated carrier at the authorized daytime power immediately prior to commencing PSRA or PSSA operations. Special conditions as the FCC may deem appropriate may be included for PSRA or PSSA to insure operation of the transmitter and associated equipment in accordance with all phases of good engineering practice.*

*(Added 91-303, 4/19/92)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.127 USE OF MULTIPLEX TRANSMISSION.

The licensee of an AM broadcast station may use its AM carrier to transmit signals not audible on ordinary consumer receivers, for ~~utility-load management~~ both broadcast and non-broadcast purposes subject to the following requirements:

- (a) Such use does not disrupt or degrade the station's own programs or the programs of other broadcast stations. (Added 82-227, 7/1/82)
- (b) AM carrier services that are common carrier in nature are subject to common carrier regulation. Licensees operating such services are required to apply to the FCC for the appropriate authorization and to comply with all polices and rules applicable to the service. Responsibility for making the initial determinations of whether a particular activity is common carriage rests with the AM station licensee. Initial determinations by licensees are subject to FCC examination and may be reviewed at the FCC's discretion. AM carrier services that are private carrier in nature must notify the Licensing Division of the Private Radio Bureau at Gettysburg, Pennsylvania 17325, by letter, prior to initiating service certifying compliance with 47 CFR Parts 90 and 94.
- (c) AM carrier services are of a secondary nature under the authority of the AM station authorization, and the authority to provide such communications services may not be retained or transferred in any manner separate from the station's authorization. The grant or renewal of an AM station permit or license is not furthered or promoted by proposed or past service. The permittee or licensee must establish that the broadcast operation is in the public interest wholly apart from the subsidiary communications services provided.
- (d) The station identification, delayed recording, and sponsor identification announcements required by §§ 73.1201, 73.1208, and 73.1212 are not applicable to leased communications services transmitted via services that are not of a general broadcast program nature.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (e) The licensee or permittee must retain control over all material transmitted in a broadcast mode via the station's facilities, with the right to reject any material that it deems inappropriate or undesirable. (Added 84-301, 9/20/84)
- (f) Installation of the multiplex transmitting equipment must conform with the requirements of § 73.1690(e)(6).

73.128 AM STEREOPHONIC BROADCASTING.

(a) An AM broadcast station may, without specific authority from the FCC, transmit stereophonic programs upon installation of type accepted stereophonic transmitting equipment and the necessary measuring equipment to determine that the stereophonic transmissions conform to the modulation characteristics specified in paragraphs (b) and (c) of this section. ~~for the Stations transmitting stereophonic transmission system in use.~~ programs prior to March 21, 1994 may continue to do so until March 21, 1995 as long as they continue to comply with the rules in effect prior to March 21, 1994

(b) ~~The FCC does not specify the composition of the transmitted stereophonic signal.~~ However, The following limitations on the transmitted wave must be met to insure compliance with the occupied bandwidth limitations, compatibility with AM receivers using envelope detectors, and any applicable international agreements to which the ~~United States~~ FCC is a party:

- (1) The transmitted wave must meet the occupied bandwidth specifications of § 73.44 under all possible conditions of program modulation. Compliance with requirement shall be demonstrated either by the following specific modulation tests or other documented test procedures that are to be fully described in the application for type acceptance and the transmitting equipment instruction manual. (See § 2.983(d)(8) and (j)).
 - (i) Main channel (L+R) under all conditions of amplitude modulations for the stereophonic system but not exceeding amplitude modulation on negative peaks of 100%.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (ii) Stereophonic ~~subchannel~~ (L-R) modulated with audio tones of the same amplitude at the transmitter input terminals as in paragraph (b)(i) of this section but with the phase of either the L or R channel reversed.
- (iii) Left and Right Channel only, under all conditions of modulation for the stereophonic system in use but not exceeding amplitude modulation on negative peaks of 100%.

(c) Effective on December 20, 1994, stereophonic transmissions shall conform to the following additional modulation characteristics:

- (1) The audio response of the main (L+R) channel shall conform to the requirements of the ANSI/EIA-549-1988, NRSC-1 AM Preemphasis/Deemphasis and Broadcast Transmission Bandwidth Specifications (NRSC-1).
- (2) The left and right channel audio signals shall conform to frequency response limitations dictated by ANSI/EIA-549-1988.
- (3) The stereophonic difference (L-R) information shall be transmitted by varying the phase of the carrier in accordance with the following relationship:

$$\phi = \tan^{-1} \left(\frac{m(L(t)-R(t))}{1+m(L(t)+R(t))} \right)$$

Where:

L(t)=audio signal left channel,
R(t)=audio signal right channel,
m=modulation factor, and
 $m_{\text{peak}}(L(t)+R(t))=1$ for 100% amplitude modulation,
 $m_{\text{peak}}(L(t)-R(t))=1$ for 100% phase modulation.

- (4) The carrier phase shall advance in a positive direction when a left channel signal causes the transmitter envelope to be modulated in a positive direction. The carrier phase shall likewise retard (negative phase change) when a right channel signal causes the transmitter envelope to be modulated in a positive direction. The phase modulation shall be symmetrical for the condition of difference (L-R) channel information sent without the presence of envelope modulation.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (5) Maximum angular modulation, which occurs on negative peaks of the left or right channel with no signal present on the opposite channel ($L(t)=-0.75$, $R(t)=0$, or $R(t)=-0.75$, $L(t)=0$) shall not exceed 1.25 radians.
- (6) A peak phase modulation of ± 0.785 radians under the condition of difference (L-R) channel modulation and the absence of envelope (L+R) modulation and pilot signal shall represent 100% modulation of the difference channel.
- (7) The composite signal shall contain a pilot tone for indication of the presence of stereophonic information. The pilot tone shall consist of a 25 Hz tone, with 3% or less total harmonic distortion and a frequency tolerance of $\pm 0.1 H_2$, which modulates the carrier phase ± 0.05 radians peak, corresponding to 5% L-R modulation when no other modulation is present. The injection level shall be 5%, with a tolerance of ± 1 , -1%.
- (8) The composite signal shall be described by the following expression:

$$E_c = A_c \left[1 + m \sum_{n=1}^{\infty} C_{sn} \cos(\omega_{sn} t + \phi_{sn}) \right]$$

$$\cos \left[\omega_c t + \tan^{-1} \frac{m \sum_{n=1}^{\infty} C_{dn} \cos(\omega_{dn} t + \phi_{dn}) + 0.05 \sin 50\pi t}{1 + m \sum_{n=1}^{\infty} C_{sn} \cos(\omega_{sn} t + \phi_{sn})} \right]$$

where:

A=the unmodulated carrier voltage

m=the modulation index

C_{sn} =the magnitude of the nth term of the sum signal

C_{dn} =the magnitude of the nth term of the difference signal

ω_{sn} =the nth order angular velocity of the sum signal

ω_{dn} =the nth order angular velocity of the difference signal

ω_c =the angular velocity of the carrier

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

$$\phi_{sn} = \text{the angle of the } n\text{th order term} = \tan^{-1} \left| \frac{B_{sn}}{A_{sn}} \right|$$

$$\phi_{dn} = \text{the angle of the } n\text{th order term} = \tan^{-1} \left| \frac{B_{dn}}{A_{dn}} \right|$$

A_{sn} and B_{sn} are the n^{th} sine and cosine coefficients of C_{sn}

A_{dn} and B_{dn} are the n^{th} sine and cosine coefficients of C_{dn}

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.132 TERRITORIAL EXCLUSIVITY.

No licensee of an AM broadcast station shall have any arrangement with a network organization which prevents or hinders another station serving substantially the same area from broadcasting the network's programs not taken by the former station, or which prevents or hinders another station serving a substantially different area from broadcasting any program of the network organization: Provided, however, That this section does not prohibit arrangements under which the station is granted first call within its primary service area upon the network's programs. The term "network organization" means any organization originating program material, with or without commercial messages, and furnishing the same to stations interconnected so as to permit simultaneous broadcast by all or some of them. However, arrangements involving only stations under common ownership, or only the rebroadcast by one station or programming from another with no compensation other than a lump-sum payment by the station rebroadcasting, are not considered arrangements with a network organization. The term "arrangement" means any contract, arrangement or understanding, expressed or implied.

- 73.140 REMOVED (85-653, 2/5/86)
- 73.142 REMOVED (85-653, 2/5/86)
- 73.144 REMOVED (85-653, 2/5/86)
- 73.146 REMOVED (85-653, 2/5/86)

[Next Page is No. 75]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.150 DIRECTIONAL ANTENNA SYSTEMS.

(a) For each station employing a directional antenna, all determinations of service provided and interference caused shall be based on the inverse distance fields of the standard radiation pattern for that station. (As applied to nighttime operation the term "standard radiation pattern" shall include the radiation pattern in the horizontal plane, and radiation patterns at angles above this plane.) ~~, as required by paragraph (b)(1) of this section. In the event of a discrepancy between the calculated and plotted values of a standard pattern, the calculated values will (notified) values will prevail with respect to protection of foreign stations.~~ (Revised 75-511, 7/15/76)

- (1) Parties submitting directional antenna patterns pursuant to this section and § 73.152 (Modified standard pattern) must submit patterns which are tabulated and plotted in units of millivolts per meter at 1 kilometer. (Added 85-659, 2/18/86)

NOTE: Applications for new stations and for changes (both minor and major) in existing stations must use a standard pattern. (Revised 81-45, 3/17/81)

(b) The following data shall be submitted with an application for authority to install a directional antenna: (Added 71-39, 2/22/71)

- (1) The standard radiation pattern for the proposed antenna in the horizontal plane, and where pertinent, tabulated values for the azimuthal radiation patterns for angles of elevation up to and including 60° degrees, with a separate pattern section for each increment of 5° degrees.

- (i) The standard radiation pattern shall be based on the theoretical radiation pattern. The theoretical radiation pattern shall be calculated in accordance with the following mathematical expression:

$$E(\phi, \theta)_{th} = \left| k \sum_{i=1}^n F_i f_i(\theta) / S_i \cos \theta \cos(\phi_i - \phi) + \psi_i \right|$$

(Eq. 1)

where:

$E(\phi, \theta)_{th}$ represents the theoretical inverse distance fields at one kilometer for the given azimuth and elevation.

The standard radiation pattern shall be constructed in accordance with the following mathematical expression:

$$E(\phi, \theta)_{std} = 1.05 \sqrt{[E(\phi, \theta)_{th}]^2 + Q^2}$$

(Eq. 2)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

where:

$E(\phi, \theta)_{std}$ represents the inverse distance fields at one kilometer which are produced by the directional antenna in the horizontal and vertical planes. $E(\phi, \theta)_{th}$ represents the theoretical inverse distance fields at one kilometer as computed in accordance with Eq. 1 above.

Q is the greater of the following two quantities:
 $0.025(g)(\theta) E_{rss}$ or $10.0g(\theta) \sqrt{P_{kw}}$

where:

$g(\theta)$ is the vertical plane distribution factor, $f(\theta)$, for the shortest element in the array (see Eq. 2, above; also see § 73.190, Figure 5). If the shortest element has an electrical height in excess of 0.5 wavelength, $g(\theta)$ shall be computed as follows:

$$g(\theta) = \frac{\sqrt{\{f(\theta)\}^2 + 0.0625}}{1.030776}$$

E_{rss} is the root sum square of the amplitudes of the inverse fields of the elements of the array in the horizontal plane, as used in the expression for $E(\phi, \theta)_{th}$ (see Eq. 1, above), and is computed as follows:

$$E_{rss} = k \sqrt{\sum_{i=1}^n F_i^2}$$

[Next Page is No. 76.1]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

P_{kw} is the nominal station power expressed in kilowatts, see § 73.14. If the nominal power is less than one kilowatt, $P_{kw}=1$ five degrees, beginning with zero degrees representing true north, and, shall be plotted to the largest scale possible on unglazed letter-size paper (main engraving approximately 7" x 10") using only scale divisions and subdivisions of 1,2,2.5, or 5 times 10^{nth} . The horizontal plane pattern shall be plotted on polar coordinate paper, with the zero degree point corresponding to true north. Patterns for elevation angles above the horizontal plane may be plotted in polar or rectangular coordinates, with the pattern for each angle of elevation on a separate page. Rectangular plots shall begin and end at true north, with all azimuths labeled in increments of not less than 20 degrees. If a rectangular plot is used, the ordinate showing the scale for radiation may be logarithmic. Such patterns for elevation angles above the horizontal plane need be submitted only upon specific request by Commission staff. Minor lobe and null detail occurring between successive patterns for specific angles of elevation need not be submitted. Values of field strength on any pattern less than ten percent of the maximum field strength plotted on that pattern shall be shown on an enlarged scale. Rectangular plots with a logarithmic ordinate need not utilize an expanded scale unless necessary to show clearly the minor lobe and null detail.*

- (ii) Where the orthogonal addition of the factor Q to $E(\phi,\theta)_{th}$ results in a standard pattern whose minimum fields are lower than those found necessary or desirable, these fields may be increased by appropriate adjustment of the parameters of $E(\phi,\theta)_{th}$.

*(Revised 91-303, 4/19/92)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (2) All patterns shall be computed for integral multiples of five degrees, beginning with zero degrees representing true north, and, shall be plotted to the largest scale possible on unglazed letter-size paper (main engraving approximately 7" x 10") using only scale divisions and subdivisions of 1, 2, 2.5, or 5 times 10^{th} . The horizontal plane pattern and other azimuthal patterns shall be plotted on polar coordinate paper, with the zero degree point corresponding to true north. Patterns for elevation angles above the horizontal plane may be plotted in polar or rectangular coordinates, with the pattern for each angle of elevation on a separate page. Rectangular plots shall begin and end at true north, with all azimuths labelled in increments of not less than 20 degrees. If a rectangular plot is used, the ordinate showing the scale for radiation may be logarithmic. Minor lobe and null detail occurring between successive patterns for specific angles of elevation need not be submitted. Values of field on any pattern less than ten percent of the maximum field strength plotted on that pattern shall be shown on an enlarged scale. Rectangular plots with a logarithmic ordinate need not utilize an expanded scale unless necessary to show clearly the minor lobe and null detail. The direction and distance toward each existing station with which interference may be involved shall be indicated on the horizontal plane pattern, and as appropriate, on patterns for other angles of elevation, with all directions referred to true north.
- (3) The effective (RMS) field strength in the** horizontal plane of $E(\phi, \theta)_{\text{std}}$, $E(\phi, \theta)_{\text{th}}$ and the root-sum-square (RSS) value of the inverse distance fields of the array elements at 1 kilometer, derived from the equation for $E(\phi, \theta)_{\text{th}}$. These values shall be tabulated on the page on which the horizontal plane pattern is plotted, which shall be specifically labeled as the Standard Horizontal Plane Pattern.*
- (4) Physical description of the array, showing: (Added 71-39, 2/22/71)
- (i) Number of elements. (Added 71-39, 2/22/71)
 - (ii) Type of each element (i.e., guyed or self-supporting, uniform cross section or tapered (specifying base dimensions), grounded or insulated, etc.) (Added 71-39, 2/22/71)

*(Revised 91-303, 4/19/92)

[Next Page is No. 76.2a]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (iii) Details of top loading, or sectionalizing, if any. (Added 71-39, 2/22/71)
 - (iv) Height of radiating portion of each element in feet (height above base insulator, or base, if grounded). (Added 71-39, 2/22/71)
 - (v) Overall height of each element above ground. (Added 71-39, 2/22/71)
 - (vi) Sketch of antenna site, indicating its dimensions, the location of the antenna elements thereon, their spacing from each other, and their orientation with respect to each other and to true north, the number and length of the radials in the ground system about each element, the dimensions of ground screens, if any, and bonding between towers and between radial systems. (Added 71-39, 2/22/71)
- (5) Electrical description of the array, showing: (Added 71-39, 2/22/71)
- (i) Relative amplitudes of the fields of the array elements. (Added 71-39, 2/22/71)
 - (ii) Relative time phasing of the fields of the array elements in degrees leading [+] or lagging [-]. (Added 71-39, 2/22/71)
 - (iii) Space phasing between elements in degrees. (Added 71-39, 2/22/71)
 - (iv) Where waiver of the content of this section is requested or upon request of the Commission staff, all assumptions made and the basis therefor, particularly with respect to the electric height of the elements, current distribution along elements, efficiency of each element, and ground conductivity. (Revised 91-303, 4/19/92)
 - (v) Where waiver of the content of this section is requested, or upon request of the Commission staff, those formulas used for computing $E(\phi, \theta)_{th}$ and $E(\phi, \theta)_{std}$. Complete tabulation of final computed data used in plotting patterns, including data for the determination of the RMS value of the pattern, and the RSS field of the array. (Revised 91-303, 4/19/92)

[Next Page is No. 76.3]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (vi) Sketch of antenna site, indicating its dimensions, the location of the antenna elements, thereon, their spacing from each other, and their orientation with respect to each other and to true north, the number and length of the radials in the ground system about each element, the dimensions of ground screens, if any, and bonding between towers and between radial systems.
- (6) The values used in specifying the parameters which describe the array must be specified to no greater precision that can be achieved with available monitoring equipment. Use of greater precision raises a rebuttable presumption of instability of the array. Following are acceptable values of precision; greater precision may be used only upon showing that the monitoring equipment to be installed gives accurate readings with the specified precision.
- (i) Field Ratio: *3 significant figures.
 - (ii) Phasing: to the nearest 0.1 degree.
 - (iii) Orientation (with respect to a common point in the array, or with respect to another tower): to the nearest 0.1 degree.
 - (iv) Spacing (with respect to a common point in the array, or with respect to another tower); to the nearest 0.1 degree.
 - (v) Electrical Height (for all parameters listed in Section 73.160): to the nearest 0.1 degree.
 - (vi) Theoretical RMS (to determine pattern size): 4 significant figures.
 - (vii) Additional requirements relating to modified standard patterns appear in § 73.152 ~~(b)(5)(c)(3)~~ and (c)(4).

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.151 FIELD STRENGTH MEASUREMENTS TO ESTABLISH PERFORMANCE OF DIRECTIONAL ANTENNAS.

(a) In addition to the information required by the license application form, the following showing must be submitted to establish, for each mode of directional operation, that the effective measured field strength (RMS) at 1 ~~kilometer (km) - mile~~ is not less than 85 percent of the effective measured field strength (RMS) specified for the standard radiation pattern, ~~for that mode of directional operation~~, or less than that specified in § 73.189(b) for the class of station involved, whichever is the higher value, and that the measured field strength at 1 ~~km - mile~~ in any direction does not exceed the field shown in that direction on the standard radiation pattern for that mode of directional operation:

- (1) A tabulation of inverse field strengths in the horizontal plane at 1 ~~km - mile~~, as determined from field strength measurements taken and analyzed in accordance with § 73.186, and a statement of the effective measured field strength (RMS), ~~based on these measurements~~. Measurements shall be made in at least the following directions:
 - (i) Those specified in the instrument of authorization. (Added 71-39, 2/22/71)
 - (ii) In major lobes. Generally at least three radials are necessary to establish a major lobe; however, additional radials may be required. (Added 71-39, 2/22/71)
 - (iii) Along sufficient number of other radials to establish the effective field. In the case of a relatively simple directional antenna pattern, approximately five radials in addition to those in subdivision (i) and (ii) of this subparagraph are sufficient. However, when more complicated patterns are involved, that is, patterns having several or sharp lobes or nulls, measurements shall be taken along as many radials as may be necessary, to definitely establish the pattern(s). (Added 71-39, 2/22/71)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (2) A tabulation of: (Added 71-39, 2/22/71)
- (i) The phase difference of the current in each other element with respect to the reference element, and whether the current leads (+) or lags (-) the current in the reference element, as indicated by the station's phase monitor. (Added 71-39, 2/22/71)
 - (ii) The ratio of the amplitude of the current in each other element to the current in the reference element, and indicated on the station's antenna monitor. (Revised 77-476, 7/18/77)
 - (iii) The value of the radio frequency current at the base of each element, and the ratio of the current in each other element, to the current in the reference element. If there are substantial differences between the ratios established in subdivision (ii) of this subparagraph and the ratios computed in this subdivision (iii) and/or if there are substantial differences between the parameters established in subdivision (i) and (ii) of this subparagraph and this subdivision (iii), and those used in the design of the standard radiation pattern, a full explanation of the reasons for these differences shall be given. (Revised 77-476, 7/18/77)
- (3) The actual field strength measured at each monitoring point established in the various directions for which a limiting field was specified in the instrument of authorization together with accurate and detailed description of each monitoring point together with ordinary snapshots, clear and sharp, taken with the field strength meter in its measuring position and with the camera so located that its field of view takes in as many pertinent landmarks as possible. In addition, the directions for proceeding to each monitoring point together with a rough sketch or map upon which has been indicated the most accessible approaches to the monitoring points should be submitted. (Edit. Amdt. 8/1/85)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(b) For stations authorized to operate with simple directional antenna systems (e.g., two towers) in the 1605-1705 kHz band, the measurements to support pattern RMS compliance referred to in paragraphs (a)(1)(ii) and (a)(1)(iii) of this section are not required. In such cases, measured radials are required only in the direction of short-spaced allotments, or in directions specifically identified by the Commission.

73.152 MODIFICATION OF DIRECTIONAL ANTENNA DATA.

(a) If, after construction and final adjustment of a directional antenna, a measured inverse distance field in any direction exceeds the field shown on the standard radiation pattern for the pertinent mode of directional operation, an application shall be filed, specifying a modified standard radiation pattern and/or such changes as may be required in operating parameters so that all measured effective fields will be contained within the modified standard radiation pattern. (Added 81-45, 3/17/81)

(b) Normally, a modified standard pattern is not acceptable at the initial construction permit stage, before a proof-of-performance has been completed. However, in certain cases, where it can be shown that modification is necessary, a modified standard pattern will be acceptable at the initial construction permit stage. Following is a non-inclusive list of items to be considered in determining whether a modification is acceptable at the initial construction permit stage: (Added 81-45, 3/17/81)

- (1) When the proposed pattern is essentially the same as an existing pattern at the same antenna site. (e.g., A DA-D station proposing to become a DA-1 station.) (Added 81-45, 3/17/81)
- (2) Excessive reradiating structures, which should be shown on a plat of the antenna site and surrounding area. (Added 81-45, 3/17/81)
- (3) Other environmental factors; they should be fully described. (Added 81-45, 3/17/81)
- (4) Judgment and experience of the engineer preparing the engineering portion of the application. This must be supported with a full discussion of the pertinent factors. (Added 81-45, 3/17/81)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(c) The following general principles shall govern the situations in paragraphs (a) and (b) in this section: (Revised 81-45, 3/17/81)

- (1) Where a measured field in any direction will exceed the authorized standard pattern, the license application may specify the level at which the input power to the antenna shall be limited to maintain the measured field at a value not in excess of that shown on the standard pattern, and shall specify the common point current corresponding to this power level. This value of common point current will be specified on the license for that station. (Revised 81-45, 3/17/81)
- (2) Where any excessive measured field does not result in objectionable interference to another station, a modification of construction permit application may be submitted with a modified standard pattern encompassing all measured fields. The modified standard pattern shall supersede the previously submitted standard radiation pattern for that station in the pertinent mode of directional operation. Following are the possible methods of creating a modified standard pattern: (Revised 81-45, 3/17/81)
 - (i) The modified pattern may be computed by making the entire pattern larger than the original pattern (i.e., have a higher RMS value) if the measured fields systematically exceed the confines of the original pattern. The larger pattern shall be computed by using a larger multiplying constant, k , in the theoretical pattern equation (Eq. 1) in § 73.150(b)(1). (Revised 81-45, 3/17/81)
 - (ii) Where the measured field exceeds the pattern in discrete directions, but objectionable interference does not result, the pattern may be expanded over sectors including these directions. When this "augmentation" is desired, it shall be achieved by application of the following equation: (Revised 81-45, 3/17/81)

$$E(\phi, \theta)_{\text{aug}} = \sqrt{\{E(\phi, \theta)_{\text{std}}\}^2 + A \{g(\theta) \cos(180 \frac{D_A}{S})\}^2}$$

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

where: (Revised 81-45, 3/17/81)

$E(\phi, \theta)_{std}$ is the standard pattern field at some particular azimuth and elevation angle, before augmentation, computed pursuant to Eq. 2, § 73.150(b)(1)(i).

$E(\phi, \theta)_{aug}$ is the field in the direction specified above, after augmentation.

$A = E(\phi', \theta)_{aug}^2 - E(\phi', \theta)_{std}^2$ in which ϕ' is the central azimuth of augmentation. $E(\phi, \theta)_{aug}$ and $E(\phi', \theta)_{std}$ are the fields in the horizontal plane at the central azimuth of augmentation.

NOTE: "A" must be positive, except during the process of converting non-standard patterns to standard patterns pursuant to the REPORT AND ORDER IN DOCKET NO. 21473, and in making minor changes to stations with patterns developed during the conversion. However, even when "A" is negative, "A" cannot be so negative that $E(\phi, \theta)_{aug}$ is less than $E(\phi, \theta)_{th}$ at any azimuth or vertical elevation angle. (Added 81-45, 3/17/81)

$g(\theta)$ is defined in § 73.150(b)(1)(i). (Added 81-45, 3/17/81)

S is the angular range, or "span", over which augmentation is applied. The span is centered on the central azimuth of augmentation. At the limits of the span, the augmented pattern merges into the unaugmented pattern. Spans may overlap. (Added 81-45, 3/17/81)

DA is the absolute horizontal angle between the azimuth at which the augmented pattern value is being computed and the central azimuth of augmentation. (DA cannot exceed $\frac{1}{2} S$.) (Added 81-45, 3/17/81)

In the case where there are spans which overlap, the above formula shall be applied repeatedly, once for each augmentation, in ascending order of central azimuth of augmentation, beginning with zero degrees representing true North. Note that, when spans overlap, there will be, in effect, an augmentation of an augmentation. And, if the span of an earlier augmentation overlaps the central azimuth of a later augmentation, the value of "A" for the later augmentation will be different than the value of "A" without the overlap of the earlier span. (Added 81-45, 3/17/81)

(iii) A combination of (i) and (ii), of this section, with (i) being applied before (ii) is applied. (Added 81-45, 3/17/81)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (iv) Where the measured inverse distance field exceeds the value permitted by the standard pattern, and augmentation is allowable under the terms of this section, the requested amount of augmentation shall be centered upon the azimuth of the radial upon which the excessive radiation was measured and shall not exceed the following:
- (A) The actual measured inverse distance field value, where the radial does not involve a required monitoring point.
- (B) 120% of the actual measured inverse field value, where the radial has a monitoring point required by the instrument of authorization. Whereas some pattern smoothing can be accommodated, the extent of the requested span(s) shall be minimized and in no case shall a requested augmentation span extend to a radial azimuth for which the analyzed measurement data does not show a need for augmentation.
- (3) A Modified Standard Pattern shall be specifically labeled as such, and shall be plotted in accordance with the requirements of subparagraph (2) of paragraph (b) of § 73.150. The effective (RMS) field intensity in the horizontal plane of $E(\phi, \theta)_{std}$, $E(\phi, \theta)_{th'}$ and the root sum square (RSS) value of the inverse fields of the array elements (derived from the equation for $E(\phi, \theta)_{th'}$) shall be tabulated on the page on which the horizontal plane pattern is plotted. Where sector augmentation has been employed in designing the modified pattern, the direction of maximum augmentation (i.e., the central azimuth of augmentation) shall be indicated on the horizontal plane pattern for each augmented sector, and the limits of each sector shall also be shown. Field values within an augmented sector, computed prior to augmentation, shall be depicted by a broken line. (Revised 81-45, 3/17/81)
- (4) There must be submitted, for each modified standard pattern, complete tabulations of final computed data used in plotting the pattern. In addition, for each augmented sector, the central azimuth of augmentation, span, and radiation at the central azimuth of augmentation ($E(\phi, \theta)_{aug}$) shall be tabulated. (Revised 81-45, 3/17/81)

73.152(c)(5)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(5) The parameters used in computing the modified standard pattern shall be specified with realistic precision. Following is a list of the maximum acceptable precision: (Revised 81-45, 3/17/81)

(i) Central Azimuth of Augmentation: to the nearest 0.1 degree. (Revised 81-45, 3/17/81)

(ii) Span: to the nearest 0.1 degree. (Revised 81-45, 3/17/81)

(iii) Radiation at Central Azimuth of Augmentation: 4 significant figures. (Revised 81-45, 3/17/81)

(d) Sample calculations for a modified standard pattern follow. First, assume the existing standard pattern in § 73.150(c). Then, assume the following augmentation parameters: (Revised 81-45, 3/17/81)

Augmentation number	Central azimuth	Span	Radiation at central azimuth
1.....	110	40	1,300
2.....	240	50	52
3.....	250	10	130

Following is a tabulation of part of the modified standard pattern:

Azimuth	0	30	60	Vertical angle
0.....	28.86	68.05	72.06
105.....	1,299.42	872.14	254.21
235.....	39.00	35.74	38.71
247.....	100.47	66.69	32.78

[Next Page is No. 78.4a]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.153 FIELD STRENGTH MEASUREMENTS IN SUPPORT OF APPLICATIONS OR EVIDENCE AT HEARINGS.

In the determination of interference, groundwave field strength measurements will take precedence over theoretical values, provided such measurements are properly taken and presented. When measurements of groundwave signal strength are presented, they shall be sufficiently complete in accordance with § 73.186 to determine the field strength at 1 mile in the pertinent directions for that station. The antenna resistance measurements required by § 73.186 need not be taken or submitted. (Revised 79-369, 7/2/79)

73.154 AM DIRECTIONAL ANTENNA PARTIAL PROOF OF PERFORMANCE MEASUREMENTS.

(a) A partial proof of performance consists of at least 10 field strength measurements made on each of the radials established in the latest complete proof of performance of the directional antenna system. (Revised 85-590, 1/1/86)

(b) The measurements are to be made within 2 to 10 miles (3 to 16 kilometers) from the center of the antenna array. When a monitoring point as designated on the station authorization on a particular radial, one of the radial measurements must be made at that point. (Revised 85-590, 1/1/86)

(c) The results of the measurements are to be analyzed in either of two methods. Either the arithmetic average or the logarithmic average of the ratios of the field strength at each measurement point along each radial to the corresponding field strength in the most recent complete proof of performance may be used to establish the inverse distance fields. (The logarithmic average for each radial is the antilogarithm of the mean of the logarithms of the ratios of field strength (new to old) for each measurement location along a given radial). (Revised 85-590, 1/1/86)

(d) The result of the most recent partial proof of performance measurements and analysis is to be retained in the station records available to the FCC upon request. (Revised 85-590, 1/1/86)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.157 ANTENNA TESTING DURING DAYTIME.

(a) The licensee of a station using a directional antenna during daytime or nighttime hours may, without further authority, operate during daytime hours with the licensed nighttime directional facilities or with a nondirectional antenna when conducting monitoring point field strength measurements or antenna proof of performance measurements. (Edit. Amdt. 7/31/85)

(b) Operation pursuant to this section is subject to the following conditions: (Edit. Amdt. 7/31/85)

- (1) No harmful interference will be caused to any other station. (Edit. Amdt. 7/31/85)
- (2) The FCC may notify the licensee to modify or cease such operation to resolve interference complaints or when such action may appear to be in the public interest, convenience and necessity. (Edit. Amdt. 7/31/85)
- (3) Such operation shall be undertaken only for the purpose of taking monitoring point field strength measurements or antenna proof of performance measurements, and shall be restricted to the minimum time required to accomplish the measurements. (Edit. Amdt. 7/31/85)
- (4) Operating power in the nondirectional mode shall be adjusted to the same power as was utilized for the most recent nondirectional proof of performance covering the licensed facilities. (Edit. Amdt. 7/31/85)

73.158 DIRECTIONAL ANTENNA MONITORING POINTS.

(a) When a license of a station using a directional antenna system finds that a field monitoring point, as specified on the station authorization, is no longer accessible for use or is unsuitable because of nearby construction or other disturbances to the measured field, an informal application to change the monitoring point location is to be promptly submitted to the FCC in Washington, D.C. The application must include the following information: (Edit. Amdt. 7/7/82)

- (1) A partial proof of performance conducted on the radial containing the monitoring point to be changed. (Edit. Amdt. 7/7/82)
- (2) A written description of the routing to the new selected monitoring point. (Edit. Amdt. 7/7/82)
- (3) A map showing the location and routing to the new selected monitoring point. (Edit. Amdt. 7/7/82)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (4) A photograph showing the new monitoring point in relation to nearby permanent landmarks that can be used in locating the point accurately at all times throughout the year. Do not use seasonal or temporary features in either the written descriptions or photographs as landmarks for locating field points. (Edit. Amdt. 7/7/82)

(b) When the descriptive routing to reach any of the monitoring points as shown on the station license is no longer correct due to road or building construction or other changes, the licensee must prepare and file with the FCC, in Washington, D.C., a request for a corrected station license showing the new routing description. A copy of the description is to be posted with the existing station license. The notification is to include the information specified in paragraphs (2) and (3) of this section. (Edit. Amdt. 7/7/82)

[Next Page is No. 78.5]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.160 VERTICAL PLANE RADIATION CHARACTERISTICS,
 $f(\theta)$.

(a) The vertical plane radiation characteristics show the relative field being radiated at a given vertical angle, with respect to the horizontal plane. The vertical angle, represented as θ , is 0 degrees in the horizontal plane, and 90 degrees when perpendicular to the horizontal plane. The vertical plane radiation characteristic is referred to as $f(\theta)$. The generic formula for $f(\theta)$ is:

$$f(\theta) = E(\theta)/E(0)$$

where:

$E(\theta)$ is the radiation from the tower at angle θ .

$E(0)$ is the radiation from the tower in the horizontal plane.

(b) Listed below are formulas for $f(\theta)$ for several common towers.

- (1) For a typical tower, which is not top-loaded or sectionalized, the following formula shall be used:

$$f(\theta) = \frac{\cos(G \sin \theta) - \cos G}{(1 - \cos G) \cos \theta}$$

where:

G is the electrical height of the tower, not including the base insulator and pier. (In the case of a folded unipole tower, the entire radiating structure's electrical height is used.)

- (2) For a top-loaded tower, the following formula shall be used:

$$f(\theta) = \frac{\cos B \cos(A \sin \theta) - \sin \theta \sin B \sin(A \sin \theta) - \cos(A+B)}{\cos \theta (\cos B - \cos(A+B))}$$

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

where:

- A is the physical height of the tower, in electrical degrees, and
- B is the difference, in electrical degrees, between the apparent electrical height (G, based on current distribution) and the actual physical height.
- G is the apparent electrical height: the sum of A and B; A+B.

See Figure 1 of this section.

- (3) For a sectionalized tower, the following formula shall be used:

$$f(\theta) = \frac{\sin B [\cos D \cos(C \sin \theta) - \sin \theta \sin D \sin(C \sin \theta) - \cos \Delta \cos(A \sin \theta)] + \sin \Delta [\cos B \cos(A \sin \theta) - \cos G]}{\cos \theta [\sin \Delta (\cos B - \cos G) + \sin B (\cos D - \cos \Delta)]}$$

where:

- A is the physical height, in electrical degrees, of the lower section of the tower.
- B is the difference between the apparent electrical height (based on current distribution) of the lower section of the tower and the physical height of the lower section of the tower.
- C is the physical height of the entire tower, in electrical degrees.
- D is the difference between the apparent electrical height of the tower (based on current distribution of the upper section) and the physical height of the entire tower. D will be zero if the sectionalized tower is not top-loaded.
- G is the sum of A and B; A+B.
- H is the sum of C and D; C+D.
- Δ is the difference between H and A; H-A.

See Figure 2 of this section.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(c) One of the above $f(\theta)$ formulas *must* be used in computing radiation in the vertical plane, unless the applicant submits a special formula for a particular type of antenna. If a special formula is submitted, it must be accompanied by a complete derivation and sample calculations. Submission of values for $f(\theta)$ only in a tabular or graphical format (i.e., without a formula) is not acceptable.

(d) Following are sample calculations. (The number of significant figures shown here should *not* be interpreted as a limitation on the number of significant figures used in actual calculations.)

- (1) For a typical tower, as described in paragraph (b)(1) of this section, assume that $G = 120$ electrical degrees:

θ	$f(\theta)$
0	1.0000
30	0.7698
60	0.3458

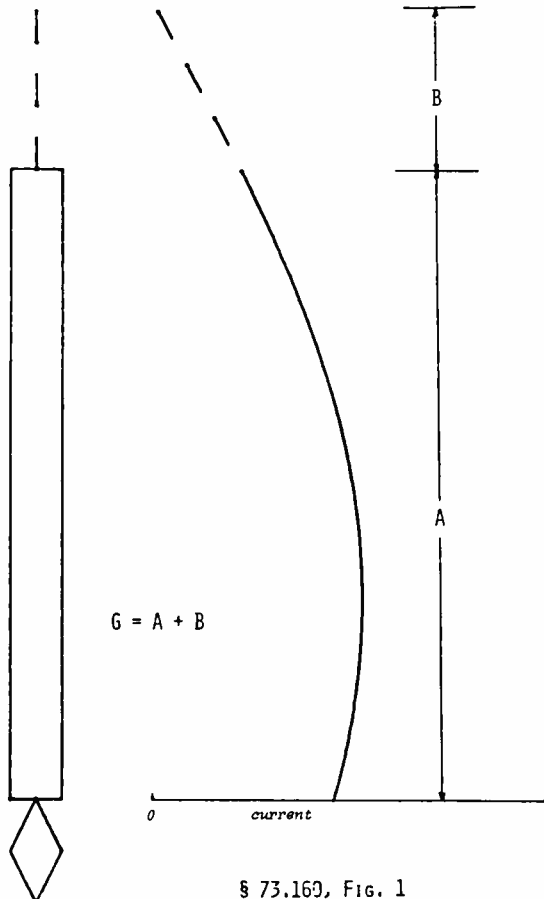
- (2) For a top-loaded tower, as described in paragraph (b)(2) of this section, assume $A = 120$ electrical degrees, $B = 20$ electrical degrees, and $G = 140$ electrical degrees, (120+20):

θ	$f(\theta)$
0	1.000
30	0.7364
60	0.2960

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

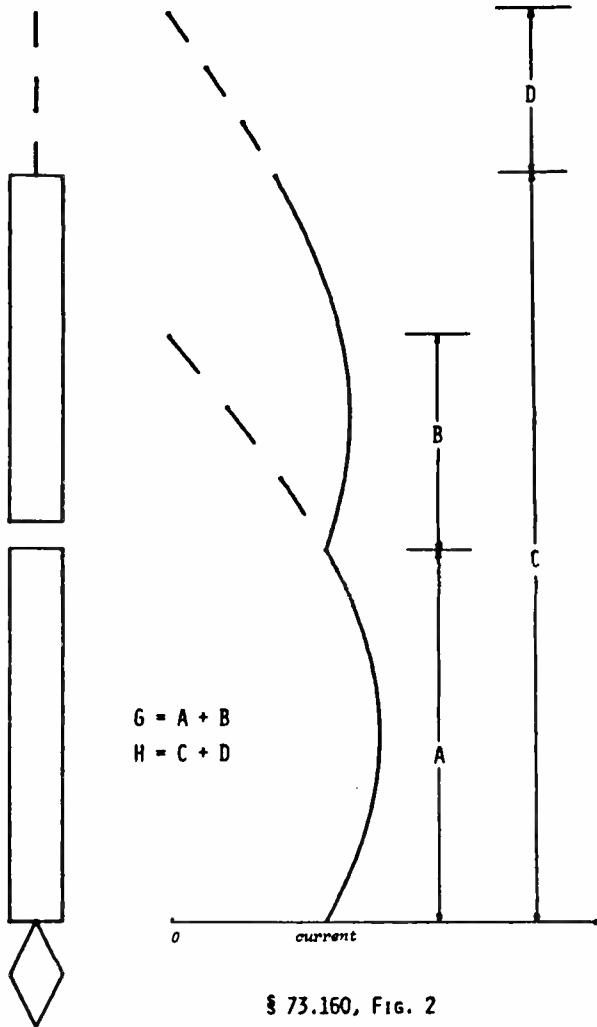
- (3) For a sectionalized tower, as described in paragraph (b)(3) of this section, assume A = 120 electrical degrees, B = 20 electrical degrees, C = 220 electrical degrees, D = 15 electrical degrees, G = 140 electrical degrees (120+20), and H = 235 electrical degrees (220+15), and Δ = 115 electrical degrees (235-120):

θ	$f(\theta)$
0	1.000
30	0.5930
60	0.1423



§ 73.160, FIG. 1

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73



§ 73.160, FIG. 2

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.182 ENGINEERING STANDARDS OF ALLOCATION.

(a) Sections 73.21 to 73.37, inclusive, govern allocation of facilities in the AM broadcast band 535-1705 kHz § 73.21 establishes three classes of channels in this band, namely, clear, regional and local. The classes and power of AM broadcast stations which will be assigned to the various channels are set forth in § 73.21. The classifications of the AM broadcast stations are as follows:

- (1) Class A stations operate on clear channels with powers no less than 10kW nor greater than 50 kW. These stations are designed to render primary and secondary service over an extended area, with their primary services areas protected from objectionable interference from other stations on the same and adjacent channels. Their secondary service areas are protected from objectionable interference from co-channel stations. For purposes of protection, Class A stations may be divided into two groups, those located in any of the contiguous 48 States and those located in Alaska in accordance with § 73.25.
 - (i) The mainland U.S. Class A stations are those assigned to the channels allocated by § 73.25. The power of these stations shall be 50 kW. The Class A stations in this group are afforded protection as follows:
 - (A) Daytime. To the 0.1 mV/m groundwave contour from stations on the same channel, and to the 0.5 mV/m groundwave contour from stations on adjacent channels.
 - (B) Nighttime. To the 0.5 mV/m-50% skywave contour from stations on the same channels.
 - (ii) Class A stations in Alaska operate on the channels allocated by § 73.25 with a minimum power of 10 kW, a maximum power of 50 kW, and an antenna efficiency of 282 mV/m/kW at 1 kilometer. Stations operating on these channels in Alaska which have not been designated as Class A stations in response to licensee request will continue to be considered as Class B stations. During daytime hours a Class A station in Alaska is protected to the 100 μ V/m groundwave contour from co-channel stations. During nighttime hours, a Class A station in Alaska is protected to the 100 μ V/m-50 percent skywave contour from co-channel stations. The 0.5 mV/m groundwave contour is protected both daytime and nighttime from stations on adjacent channels.

[Next Page is No. 79]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

NOTE: In the Report and Order in MM Docket No. 83-807, the Commission designated 15 stations operating on U.S. clear channels as Alaskan Class A stations. Eleven of these stations already have Alaskan Class A facilities and are to be protected accordingly. Permanent designation of the other four stations as Alaskan Class A is conditioned on their constructing minimum Alaskan Class A facilities no later than December 31, 1989. Until that date or until such facilities are obtained, these four stations shall be temporarily designated as Alaskan Class A stations, and calculations involving these stations should be based on existing facilities but with an assumed power of 10 kW. Thereafter, these stations are to be protected based on their actual Alaskan Class A facilities. If any of these stations does not obtain Alaskan Class A facilities in the period specified, it is to be protected as a Class B station based on its actual facilities. These four stations may increase power to 10 kW without regard to the impact on co-channel Class B stations. However, power increases by these stations above 10 kW (or by existing Alaskan Class A stations beyond their current power level) are subject to applicable protection requirements for co-channel Class B stations. Other stations not on the original list but which meet applicable requirements may obtain Alaskan Class A status by seeking such designation from the Commission. If a power increase or other change in facilities by a station not on the original list is required to obtain minimum Alaskan Class A facilities, any such application shall meet the interference protection requirements applicable to an Alaskan Class A proposal on the channel.

- (2) Class B stations are stations which operate on clear and regional channels with powers not less than 0.25 kW nor more than 50 kW. These stations render primary service only, the area of which depends on their geographical location, power, and frequency. It is recommended that Class B stations be located so that the interference received from other stations will not limit the service area to a groundwave contour value greater than 2.0 mV/m nighttime and to the 0.5 mV/m groundwave contour daytime, which are the values for the mutual protection between this class of stations and other stations of the same class.

NOTE: See §§ 73.21(b)(1) and 73.26(b) concerning power restrictions and classifications relative to Class B, Class C, and Class D stations in Alaska, Hawaii, Puerto Rico and the U.S. Virgin Islands. Stations in the above-named places that are reclassified from Class C to Class B stations under § 73.26(b) shall not be authorized to increase power to levels that would increase the nighttime interference-free limit of co-channel Class C stations in the conterminous United States.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (3) Class C stations operate on local channels, normally rendering primary service to a community and the suburban or rural areas immediately contiguous thereto, with powers not less than 0.25 kW, nor more than 1 kW, except as provided in § 73.21(c)(1). Such stations are normally protected to the daytime 0.5 mV/m contour. On local channels the separation required for the daytime protection shall also determine the nighttime separation. Where directional antennas are employed daytime by Class C stations operating with more than 0.25 kW power, the separations required shall in no case be less than those necessary to afford protection, assuming nondirectional operation with 0.25 kW. In no case will 0.25 kW or greater nighttime power be authorized to a station unable to operate nondirectionally with a power of 0.25 kW during daytime hours. The actual nighttime limitation will be calculated. For nighttime protection purposes, Class C stations in the 48 contiguous United States may assume that stations in Alaska, Hawaii, Puerto Rico, and the U.S. Virgin Islands operating on 1230, 1240, 1340, 1400, 1450, and 1490 kHz are Class C stations.
- (4) Class D stations operate on clear and regional channels with daytime powers of not less than 0.25 kW (or equivalent RMS field of 141 mV/m at one kilometer if less than 0.25 kW) and not more than 50 kW. Class D stations have previously received nighttime authority operate with powers of less than 0.25 kW (or equivalent RMS fields of less than 141 mV/m at one kilometer) are not required to provide nighttime coverage in accordance with § 73.24(j) and are not protected from interference during nighttime hours. Such nighttime authority is permitted on the basis of full nighttime protection being afforded to all Class A and Class B stations.

(b) When a station is already limited by interference from other stations to a contour value greater than that normally protected for its class, the individual received limits shall be the established standard for such station with respect to interference from each other station.

[Next Page is No. 80.1]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(c) The four classes of AM broadcast stations have in general three types of service areas, i.e., primary, secondary and intermittent. (See § 73.14 for the definitions of primary, secondary, and intermittent service areas.) Class A stations render service to all three areas. Class B stations render service to a primary area but the secondary and intermittent service areas may be materially limited or destroyed due to interference from other stations, depending on the station assignments involved. Class C and Class D stations usually have only primary service areas. Interference from other stations may limit intermittent service areas and generally prevents any secondary service to those stations which operate at night. Complete intermittent service may still be obtained in many cases depending on the station assignments involved.

(d) The groundwave signal strength required to render primary service is 2 mV/m for communities with populations of 2,500 or more and 0.5 mV/m for communities with populations of less than 2,500. See § 73.184 for curves showing distance to various groundwave field strength contours for different frequencies and ground conductivities, and also see § 73.183, "Groundwave signals."

(e) A Class C station may be authorized to operate with a directional antenna during daytime hours providing the power is at least 0.25 kW. In computing the degrees of protection which such antenna will afford, the radiation produced by the directional antenna system will be assumed to be no less, in any direction, than that which would result from non-directional operation using a single element of the directional array, with 0.25 kW.

(f) All classes of broadcast stations have primary service areas subject to limitation by fading and noise, and interference from other stations to the contours set out for each class of station.

(g) Secondary service is provided during nighttime hours in areas where the skywave field strength, 50% or more of the time is 0.5 mV/m or greater (0.1 mV/m in Alaska). Satisfactory secondary service to cities is not considered possible unless the field strength of the skywave signal approaches or exceeds the value of the groundwave field strength that is required for primary service. Secondary service is subject to some interference and extensive fading whereas the primary service area of a station is subject to no objectionable interference or fading. Only Class A stations are assigned on the basis of rendering secondary service.

NOTE: Standards have not been established for objectionable fading because of the relationship to receiver characteristics. Selective fading causes audio distortion and signal strength reduction below the noise level, objectionable characteristics inherent in many modern receivers. The AVC circuits in the better designed receivers generally maintain the audio output at a sufficiently constant level to permit satisfactory reception during most fading conditions.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(h) Intermittent service is rendered by the groundwave and begins at the outer boundary of the primary service area and extends to a distance where the signal strength decreases to a value that is too low to provide any service. This may be as low as a few $\mu\text{V}/\text{m}$ in certain areas and as high as several millivolts per meter in other areas of high noise level, interference from other stations, or objectionable fading at night. The intermittent service area may vary widely from day to night and generally varies over shorter intervals of time. Only Class A stations are protected from interference from other stations to the intermittent service area.

(i) Broadcast stations are licensed to operate unlimited time, limited time, daytime, share time, and specified hours. (See §§ 73.1710, 73.1725, 73.1720, 73.1715, and 73.1730.) Applications for new stations shall specify unlimited time operation only.

(j) Section 73.24 sets out the general requirements for modifying the facilities of a licensed station and for establishing a new station. Sections 73.24(b) and 73.37 include interference related provisions that be considered in connection with an application to modify the facilities of an existing station or to establish a new station. Section 73.30 describes the procedural steps required to receive an authorization to operate in the 1605-1705 kHz band.

(k) Objectionable nighttime interference from a broadcast station occurs when, at a specified field strength contour with respect to the desired station, the field strength of an undesired station (co-channel or first adjacent channel, after application of proper protection ratio) exceeds for 10% or more of the time the values set forth in these standards. The value derived from the root-sum-square of all interference contributions represents the extent of a station's interference-free coverage.

- (1) With respect to the root-sum-square (RSS) values of interfering field strengths referred to in this section, calculation of nighttime interference-free service is accomplished by considering the signals on the three channels of concern (co- and first adjacencies) in order of decreasing magnitude, adding the squares of the values and extracting the square root of the sum, excluding those signals which are less than 50% of the RSS values of the higher signals already included.
- (2) With respect to the root-sum-square values of interfering field strengths referred to in this section, calculation of nighttime interference for non-coverage purposes is accomplished by considering the signals on the three channels of concern (co- and first adjacencies) in order of decreasing magnitude, adding the squares of the values and extracting the square root of the sum, excluding those signals which are less than 25% of the RSS values of the higher signals already included.

[Next Page is No. 81]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (3) With respect to the root-sum-square values of interfering field strengths referred to in this section, calculation is accomplished by considering the signals on the three channels of concern (co- and first adjacencies) in order of decreasing magnitude, adding the squares of the values and extracting the square root of the sum. The 0% exclusion method applies only to the determination of an improvement factor value for evaluating a station's eligibility for migration to the band 1605-1705 kHz.
- (4) The RSS value ~~of the nighttime interference-free contour~~ will not be considered to be increased when a new interfering signal is added which is less than 50% the appropriate exclusion percentage as applied to the RSS value of the RSS value of the interference from existing stations, and which at the same time is not greater than the smallest signal included in the RSS value of interference from existing stations.
- (5) It is recognized that application of the above "50% exclusion" method (or any exclusion method using a per cent value greater than zero) of calculating the RSS interference may result in some cases in anomalies wherein the addition of a new interfering signal or the increase in value of an existing interfering signal will cause the exclusion of a previously included signal and may cause a decrease in the calculated RSS value of interference. In order to provide the Commission with more realistic information regarding gains and losses in service (as a basis for determination of the relative merits of a proposed operation) the following alternate method for calculating the proposed RSS values of interference will be employed wherever applicable.
- (6) In the cases where it is proposed to add a new interfering signal which is not less than 50% (or 25%, depending on which study is being performed) of the RSS value of interference from existing stations or which is greater than the smallest signal already included to obtain this RSS value, the RSS limitation after addition of the new signal shall be calculated without excluding any signal previously included. Similarly, in cases where it is proposed to increase the value of one of the existing interfering signals which has been included in the RSS value, the RSS limitation after the increase shall be calculated without excluding the interference from any source previously included.

*(Added 91-303, 4/19/92)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(7) If the new or increased signal proposed in such cases is ultimately authorized, the RSS values of interference to other stations affected will thereafter be calculated by the "50% exclusion" (or 25% exclusion, depending on which study is being performed) method without regard to this alternate method of calculation.

(8) Examples of RSS interference calculations:

(i) Existing interferences:

Station No. 1-1.00 mV/m.
Station No. 2-0.60 mV/m.
Station No. 3-0.59 mV/m.
Station No. 4-0.58 mV/m.

The RSS value from Nos. 1, 2 and 3 is 1.31 mV/m; therefore interference from No. 4 is excluded for it is less than 50% of 1.31 mV/m.

(ii) Station A receives interferences from:

Station No. 1-1.00 mV/m.
Station No. 2-0.60 mV/m.
Station No. 3-0.59 mV/m.

It is proposed to add a new limitation, 0.68 mV/m. This is more than 50% of 1.31 mV/m, the RSS value from Nos. 1, 2 and 3. The RSS value of Station No. 1 and of the proposed station would be 1.21 mV/m which is more than twice as large as the limitation from Station No. 2 or No. 3. However, under the above provision the new signal and the three existing interferences are nevertheless calculated for purposes of comparative studies, resulting in an RSS value of 1.47 mV/m. However, if the proposed station is ultimately authorized, only No. 1 and the new signal are included in all subsequent calculations for the reason that Nos. 2 and 3 are less than 50% of 1.21 mV/m, the RSS value of the new signal and No. 1.

(iii) Station A receives interferences from:

Station No. 1-1.00 mV/m.
Station No. 2-0.60 mV/m.
Station No. 3-0.59 mV/m.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

No. 1 proposes to increase the limitation it imposes on Station A to 1.21 mV/m. Although the limitations from stations Nos. 2 and 3 are less than 50% of the 1.21 mV/m limitation, under the above provision they are nevertheless included for comparative studies, and the RSS limitation is calculated to be 1.47 mV/m. However, if the increase proposed by Station No. 1 is authorized, the RSS value then calculated is 1.21 mV/m because Stations Nos. 2 and 3 are excluded in view of the fact that the limitations they impose are less than 50% of 1.21 mV/m.

NOTE: The principles demonstrated in the previous examples for the calculation of the 50% exclusion method also apply to calculations using the 25% exclusion method after appropriate adjustment.

(l) Objectionable nighttime interference from a station shall be considered to exist to a station when, at the field strength contour specified in paragraph (q) of this section with respect to the class to which the station belongs, the field strength of an interfering station operating on the same channel or on the first adjacent channel after signal adjustment using the proper protection ratio, exceeds for 10% or more of the time the value of the permissible interfering signal set forth opposite such class in paragraph (q) of this section.

(m) For the purpose of estimating the coverage and the interfering effects of stations in the absence of field strength measurements, use shall be made of Figure 8 of § 73.190, which describes the estimated effective field (for 1 kW power input) of simple vertical omnidirectional antennas of various heights with ground systems having at least 120 quarter-wavelength radials. Certain approximations, based on the curve or other appropriate theory, may be made when other than such antennas and ground systems are employed, but in any event the effective field to be employed shall not be less than the following:

Class of station	Effective field (at 1 km)
All Class A (except Alaskan)	362 mV/m.
Class A (Alaskan), B and D	282 mV/m.
Class C	241 mV/m.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

NOTE (1): When a directional antenna is employed, the radiated signal of a broadcasting station will vary in strength in different directions, possibly being greater than the above values in certain directions and less in other directions depending upon the design and adjustment of the directional antenna system. To determine the interference in any direction, the measured or calculated radiated field (unattenuated field strength at 1 kilometer from the array) must be used in conjunction with the appropriate propagation curves. (See § 73.185 for further discussion and solution of a typical directional antenna case.)

NOTE (2): For Class B stations in Alaska, Hawaii, Puerto Rico and the U.S. Virgin Islands, 241 mV/m shall be used.

(n) The existence or absence of objectionable groundwave interference from stations on the same or adjacent channels shall be determined by actual measurements made in accordance with the method described in § 73.186, or in the absence of such measurements, by reference to the propagation curves of § 73.184. The existence or absence of objectionable interference due to skywave propagation shall be determined by reference to Formula 2 in § 73.190.

(o) COMPUTATION OF SKYWAVE FIELD STRENGTH VALUES:

- (1) Fifty Percent Skywave Field Strength Values (Clear Channel). In computing the fifty percent skywave field strength values of a Class A clear channel station, use shall be made of Formula 1 of § 73.190, entitled "Skywave Field Strength" for 50 percent of the time.
- (2) Ten Percent Skywave Field Strength Values. In computing the 10% skywave field strength for stations on a single signal or an RSS basis, Formula 2 in § 73.190 shall be used.
- (3) Determination of Angles of Departure. In calculating skywave field strength for stations on all channels, the pertinent vertical angle shall be determined by use of the formula in § 73.190(d).

(p) The distance to any specified groundwave field strength contour for any frequency may be determined from the appropriate curves in § 73.184 entitled "Ground Wave Field Strength vs. Distance."

(q) Normally protected service contours and permissible interference signals for broadcast stations are as follows (for Class A stations, see also paragraph (a) of this section):

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

Class of station	Class of channel used	Signal strength contour of area protected from objectionable interference ¹ ($\mu\text{V}/\text{m}$)		Permissible interfering signal (vV/m)	
		Day ²	Night	Day ²	Night ³
A	Clear	SC 100 AC500	SC 500 50% SW AC 500 GW	SC 5 AC 250	SC 25 AC 250
A (Alaskan)	do	SC 100 AC 500	SC 100 50% SW AC 500 GW	SC 5 AC 250	SC 5 AC 250
B	Clear Regional	500	2000 ²	25 AC 250	25 250
C	Local	500	Not presc. ⁴	SC25	Not presc.
D	Clear Regional	500	Not presc.	SC25 AC 250	Not presc. presc.

¹When a station is already limited by interference from other stations to a contour of higher value than that normally protected for its class, this higher value contour shall be the established protection standard for such station. Changes proposed by Class A and B stations shall be required to comply with the following restrictions. Those interferers that contribute to another station's RSS using the 50% exclusion method are required to reduce their contribution to that RSS by 10%. Those lesser interferers that contribute to a station's RSS using the 25% exclusion method but do not contribute to that station's RSS using the 50% exclusion method may make changes not to exceed their present contribution. Interferers not included in a station's RSS using the 25% exclusion method are permitted to increase radiation as long as the 25% exclusion threshold is not equaled or exceeded. In no case will a reduction be required that would result in a contributing value that is below the pertinent value specified in the table. This note does not apply to Class C stations; or to the protection of Class A stations which are normally protected on a single signal, non-RSS basis.*

²Groundwave.*

³Skywave field strength for 10 percent or more of the time.*

⁴During nighttime hours, Class C stations in the contiguous 48 States may treat all Class B stations assigned to 1230, 1240, 1340, 1400, 1450 and 1490 kHz in Alaska, Hawaii, Puerto Rico and the U.S. Virgin Islands as if they were Class C stations.*

NOTE: SC=Same channel; AC=Adjacent channel; SW=Skywave; GW=Groundwave.*

*(Revised 91-303, 4/19/92)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(r) The following table of logarithmic expressions is to be used as required for determining the minimum permissible ratio of the field strength of a desired to an undesired signal. This table shall be used in conjunction with the protected contours specified in paragraph (q) of this section.*

Frequency separation of desired to undesired signals (kHz)	Desired Groundwave to:		Desired 50% Skywave to Undesired 10% Skywave (dB)
	Undesired groundwave (dB)	Undesired 10% Skywave (dB)	
0	26	26	26
10	6	6	not presc.

(s) Two stations, one with a frequency twice of the other, should not be assigned in the same groundwave service area unless special precautions are taken to avoid interference from the second harmonic of the station operating on the lower frequency. Additionally, in selecting a frequency, consideration should be given to the fact that occasionally the frequency assignment of two stations in the same area may bear such a relation to the intermediate frequency of some broadcast receivers as to cause "image" interference. However, since this can usually be rectified by readjustment of the intermediate frequency of such receivers, the Commission, in general, will not take this kind of interference into consideration when authorizing stations.*

(t) The groundwave service of two stations operating with synchronized carriers and broadcasting identical programs will be subject to some distortion in areas where the signals from the two stations are of comparable strength. For the purpose of estimating coverage of such stations, areas in which the signal ratio is between 1:2 and 2:1 will not be considered as receiving satisfactory service.*

NOTE: Two stations are considered to be operated synchronously when the carriers are maintained within 0.2 Hz of each other and they transmit identical programs.*

*(Revised 91-303, 4/19/92)

[Next Page is No. 91]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.183 GROUNDWAVE SIGNALS.

(a) Interference that may be caused by a proposed assignment or an existing assignment during daytime hours should be determined, when possible, by measurements on the frequency involved or on another frequency over the same terrain and by means for the curves in § 73.184 entitled "Ground Wave Field Strength versus Distance." (Revised 79-369, 7/2/79)

NOTE: Groundwave field strength measurements will not be accepted or considered for the purpose of establishing that interference to a station in a foreign country other than Canada, or that the field strength at the border thereof, would be less than indicated by the use of the ground conductivity maps and engineering standards contained in this part and applicable international agreements. Satisfactory groundwave measurements offered for the purpose of demonstrating values of conductivity other than those shown by Figure M3 in problems involving protection of Canadian stations will be considered only if, after review thereof, the appropriate agency of the Canadian government notifies the Commission that they are acceptable for such purpose.

~~(b) In determining interference based upon field strength measurements, it is necessary to do the following: First, establish the outer boundary of the protected service area of the desired station in the direction of the station that may cause interference to it. Second, at this boundary, measure the interfering signal from the undesired station. The ratio of the desired to the undesired signal given in § 73.182(t) should be applied to the measured signals and if the required ratio is observed, no objectionable interference is foreseen. When measurements of both the desired and undesired stations are made in one area to determine the point where objectionable interference from groundwave signals occur or to establish other pertinent contours, several measurements of each station shall be made within a few miles of this point or contour. The effective field of the antennas in the pertinent directions of the stations must be established and all measurements must be made in accordance with § 73.186. (Edit. Amdt. 3/24/86)~~

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

NOTE: ~~International have not been established for determining ground conductivity by field strength measurements. Therefore, groundwave field strength measurements will not be accepted or considered for the purpose of establishing that interference to a station in a foreign country other than Canada, or that the signal strength at the border thereof, would be less than indicated by the application of the ground conductivity maps and engineering standards contained in this part and applicable international agreements. Satisfactory groundwave measurements offered for the purpose of demonstrating values of conductivity other than those shown by Figure M3 in problems involving protection of Canadian stations will be considered only if, after review thereof, the appropriate agency of the Canadian government notifies the Commission that they are acceptable for such purpose. (Edit. Amdt. 9/28/89)~~

- (b) (e) (1) In all cases where measurements taken in accordance with the requirements are not available, the groundwave strength must be determined by means of the pertinent map of ground conductivity and the groundwave curves of field strength versus distance. The conductivity of a given terrain may be determined by measurements of any broadcast signal traversing the terrain involved. Figure M3 (See Note 1) shows the conductivity throughout the United States by general areas of reasonably uniform conductivity. When it is clear that only one conductivity value is involved, Figure R3 of § 73.190, may be used. It is a replica of Figure M3, and is contained in these standards. In all other situations Figure M3 must be employed. It is recognized that in areas of limited size or over a particular path, the conductivity may vary widely from the values given; therefore, these maps are to be used only when accurate and acceptable measurements have not been made.

[Next Page is No. 92.1]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (2) For determinations of interference and service requiring a knowledge of ground conductivities in other countries, the ground conductivity maps comprising Appendix 1 to Annex 2 of each of the following international agreements may be used:
- (i) For Canada, the U.S.-Canada AM Agreement, 1984;
 - (ii) For Mexico, the U.S.-Mexico AM Agreement, 1986; and
 - (iii) For other Western Hemisphere countries, the Regional Agreement for the Medium Frequency Broadcasting Service in Region 2.

Where different conductivities appear in the maps of two countries on opposite sides of the border, such differences are to be considered as real, even if they are not explained by geophysical cleavages.

NOTE 1: Figure R3 in § 73.190 is a replica of Figure M3. Figure M3, which is incorporated in these Standards by reference, was derived by indicating ground conductivity values in the United States on the United States Albers equal area projection map (based on standard parallels 29-1/2° and 45-1/2°; North American datum; scale 1/2, 500,000). (Edit. Amdt. 3/4/83)

NOTE 2: Copies of "Ground Conductivity Map" may be obtained by contacting the Chief, Broadcast Applications Engineering Division, Department of Communications, 300 Slater Street, Ottawa, Ontario K1A 0C8, Canada. Cost is \$100.00, Canadian. Remittance should be made by check or money payable to Receiver General for Canada. (Edit. Amdt. 3/4/83)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(c) Example of determining interference by the graphs in § 73.184.*

It is desired to determine whether objectionable interference exists between a proposed 5 kW Class B station on 990 kHz** and an existing 1 kW Class B station on first adjacent channel, 1000 kHz. The distance between the two stations is 260 kilometers and both stations operate nondirectionally with antenna systems that produce a horizontal effective field of 282 in mV/m** at one kilometer. (See § 73.185 regarding θ ** use of directional antennas.) The ground conductivity at the site of each station and along the intervening terrain is 6 mS/m. The protection to Class B stations during daytime is to the 500 μ V/m (0.5 Vm) contour using a 6 dB protection factor. The distance to the 500 μ V/m groundwave contour of the 1 kW station is determined by the use of the appropriate curve in § 73.184. Since the curve is plotted for 100 mV/m at a 1 kilometer, to find the distance of the 0.5 mV/m contour of the 1 kw station, it is necessary to determine the distance to the 0.1773 m/Vm contour.*

$$(100 \times 0.5 / 282 = **0.1773)*$$

Using the 6 mS/m curve, the estimated radius of the 0.5 mV/m contour is 62.5 kilometers. Subtracting this distance from the distance between the two stations leaves 197.5 kilometers. Using the same propagation curve, the signal from the 5 kW station at this distance is seen to be 0.059 mV/m. Since a protection ratio of 6 dB, desired to undesired signal, applies to stations separated by 10 kHz, the undesired signal could have had a value of up to 0.25 mV/m without causing objectionable interference. For co-channel studies, a desired to undesired signal ratio of no less than 20:1 (26 dB) is required to avoid causing objectionable interference.*

*(Revised 91-303, 4/19/92)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(d) Where a signal traverses a path over which different conductivities exist, the distance to a particular groundwave field strength contour shall be determined by the use of the equivalent distance method. Reasonably accurate results may be expected in determining field strengths at a distance from the antenna by application of the equivalent distance method when the unattenuated field of the antenna, the various ground conductivities and the location of discontinuities are known. This method considers a wave to be propagated across a given conductivity according to the curve for a homogeneous earth of that conductivity. When the wave crosses from a region on one conductivity into a region of a second conductivity, the equivalent distance of the receiving point from the transmitter changes abruptly but the field strength does not. From a point just inside the second region the transmitter appears to be at that distance where, on the curve for a homogeneous earth of the second conductivity, the field strength equals the value that occurred just across the boundary in the first region. Thus the equivalent distance from the receiving point to the transmitter may be either greater or less than the actual distance. An imaginary transmitter is considered to exist at that equivalent distance. This technique is not intended to be used as a means of evaluating unattenuated field or ground conductivity by the means of evaluating unattenuated field or ground conductivity by the analysis of measured data. The method to be employed for such determinations is set out in § 73.186.*

(e) Example of the use of the equivalent distance method;*

It is desired to determine the distance to the 0.5 mV/m and 0.025 mV/m contours of a station on a frequency of 1000 kHz with an inverse distance field of 100 mV/m at one kilometer being radiated over a path having a conductivity of 10 mS/m for a distance of 20 kilometers, 5 mS/m for the next 30 kilometers and 15 mS/m** thereafter. Using the appropriate curve in § 73.184, Graph 12, at a distance of 20 kilometers on the curve for 10 mS/m, the field strength is found to be 2.84 mV/m. On the 5 mS/m curve, the equivalent distance to this field strength is 14.92 kilometers, which is 5.08 (20-14.92) kilometers nearer to the transmitter. Continuing on the propagation curve, the distance to a field strength of 0.5 mV/m is found to be 36.11 kilometers.*

The actual length of the path traveled, however, is 41.19 (36.11+5.08) kilometers. Continuing on this propagation curve to the conductivity change at 44.92 (50.00—5.08) kilometers, the field strength is found to be 0.304 mV/m. On the 15 mS/m propagation curve, the equivalent distance to this field strength is 82.94 kilometers, which changes the effective path length by 38.02 (82.94—44.92) kilometers. Continuing on this propagation curve, the distance to a field strength of 0.025 mV/m is seen to be 224.4 kilometers. The actual length of the path traveled, however, is 191.46 (224.4+5.08—38.02) kilometers.*

*(Revised 91-303, 4/19/92)

[Next Page is No. 93]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.184 GROUNDWAVE FIELD STRENGTH CHARTS.

(a) Graphs 1 to 20 show, for each of 20 frequencies, the computed values of groundwave field strength as a function of groundwave conductivity and distance from the source of radiation. The groundwave field strength is considered to be that part of the vertical component of the electric field which has not been reflected from the ionosphere nor from the troposphere. These 20 families of curves are plotted on log-log graph paper and each is to be used for the range of frequencies shown thereon. Computations are based on a dielectric constant of the ground (referred to air as unity) equal to 15 for land and 80 for sea water and for the ground conductivities (expressed in mS/m) given on the curves. The curves show the variation of the groundwave field strength with distance to be expected for transmission from a vertical antenna at the surface of a uniformly conducting spherical earth with the groundwave constants shown on the curves. The curves are for an antenna power of such efficiency and current distribution that the inverse distance (unattenuated) field is 100 mV/m at 1 kilometer. The curves are valid for distances that are large compared to the dimensions of the antenna for other than short vertical antennas.*

(b) The inverse distance field (100 mV/m divided by the distance in kilometers) corresponds to the groundwave field strength to be expected from an antenna with the same radiation efficiency when it is located over a perfectly conducting earth. To determine the value of the groundwave field strength corresponding to a value of inverse distance field other than 100 mV/m at 1 kilometer, multiply the field strength as given on these graphs by the desired value of inverse distance field at 1 kilometer divided by 100; for example, to determine the groundwave field strength for a station with an inverse distance field of 2700 mV/m at 1 kilometer, simply multiply the values given on the charts by 27. The value of the inverse distance field to be used for a particular antenna depends upon the power input to the antenna, the nature of the ground in the neighborhood of the antenna, and the geometry of the antenna. For methods of calculating the interrelations between these variables and the inverse distance field, see "The Propagation of Radio Waves Over the Surface of the Earth and in the Upper Atmosphere," Part II, by Mr. K.A. Norton, Proc. I.R.E., Vol. 25, September 1937, pp. 1203-1237. (Added 85-150, 6/3/85)

NOTE: The computed values of field strength versus distance used to plot Graphs 1 to 20 are available in tabular form. For information on obtaining copies of these tabulations call or write the Consumer Affairs Office, Federal Communications Commission, Washington, DC 20554, (202)632-7000.*

*(Revised 91-303, 4/19/92)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(c) Provided the value of the dielectric constant is near 15, the ground conductivity curves of Graphs 1 to 20 may be compared with actual field strength measurement data to determine the appropriate values of the ground conductivity and the inverse distance field strength at 1 kilometer. This is accomplished by plotting the measured field strengths on transparent log-log graph paper similar to that used for Graphs 1 to 20 and superimposing the plotted graph over the Graph corresponding to the frequency of the station measured. The plotted graph is then shifted vertically until the plotted measurement data is best aligned with one of the conductivity curves on the Graph; the intersection of the inverse distance line on the Graph with the 1 kilometer abscissa on the plotted graph determines the inverse distance field strength at 1 kilometer. For other values of dielectric constant, the following procedure may be used to determine the dielectric constant of** the ground, the ground conductivity and the inverse distance field strength at 1 kilometer. Graph 21 gives the relative values of groundwave field strength over a plane earth as a function of the numerical distance p and phase angle b . On graph paper with coordinates similar to those of Graph 21, plot the measured values of field strength as ordinates versus the corresponding distances from the antenna in kilometers as abscissae. The data should be plotted only for distances greater than one wavelength (or, when this is greater, five times the vertical height of the antenna in the case of a nondirectional antenna or 10 times the spacing between the elements of a directional antenna) and for distances less than $80f^{1/3}$ MHz kilometers (i.e., 80 kilometers at 1 MHz). Then, using a light box, place the plotted graph over Graph 21 and shift the plotted graph vertically and horizontally (making sure that the vertical lines on both sheets are parallel) until the best fit with the data is obtained with one of the curves on Graph 21. When the two sheets are properly lined up, the value of the field strength corresponding to the intersection of the inverse distance line of Graph 21 with the 1 kilometer abscissa on the data sheet is the inverse distance field strength at 1 kilometer, and the values of the numerical distance at 1 kilometer, p_1 , and of b are also determined. Knowing the values of b and p_1 (the numerical distance at one kilometer), we may substitute in the following approximate values of the ground conductivity and dielectric constant. *

$$** \quad x \approx \frac{\pi}{p} \cdot \left(\frac{R}{\lambda}\right)_1 \cdot \cos b \quad (\text{Eq. 1})^*$$

$(R/\lambda)_1$ = Number of wavelengths in 1 kilometer,*

* * * * *

f_{MHz} = frequency expressed in megahertz,*

$$\underline{\underline{\epsilon}} \approx x \tan b - 1 \quad (\text{Eq. 3})^*$$

ϵ = dielectric constant on the ground referred to air as unity.*

*(Revised 91-303, 4/19/92)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

First solve for x by substituting the known values of p_1 , $(R/\lambda)_1$, and $\cos b$ in equation (1). Equation (2) may then be solved for δ and equation (3) for ϵ . At distances greater than $80/f^{1/3}$ MHz kilometers the curves of Graph 21 do not give the correct relative values of field strength since the curvature of the earth weakens the field more rapidly than these plane earth curves would indicate. Thus, no attempt should be made to fit experimental data to these curves at the larger distances.

NOTE: For other values of dielectric constant, use can be made of the computer program which was employed by the FCC in generating the curves in Graphs 1 to 20. For information on obtaining a printout of this program, call or write the Consumer Affairs Office, Federal Communications Commission, Washington, DC 200554, (202) 632-7000.

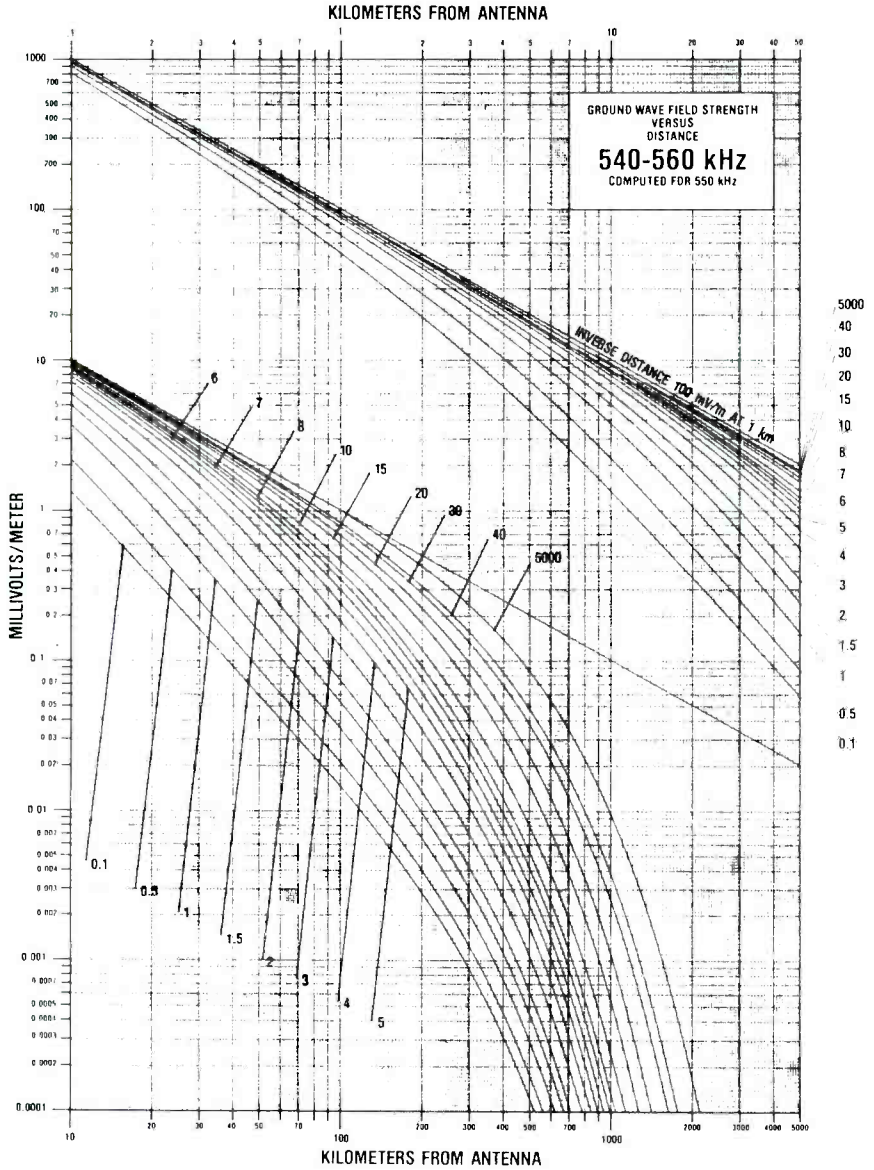
(d) At sufficiently short distances (less than 55 kilometers at AM broadcast frequencies), such that the curvature of the earth does not introduce an additional attenuation of the waves, the curves of Graph 21 may be used to determine the groundwave field strength of transmitting and receiving antennas at the surface of the earth for any radiated power, frequency, or set of ground constants. First, trace the straight inverse distance line corresponding to the power radiated on transparent log-log graph paper similar to that of Graph 21, labeling the ordinates of the chart in terms of field strength, and the abscissae in terms of distance. Next, using the formulas given on Graph 21, calculate the value of the numerical distance, p , at 1 kilometer, and the value of b . Then superimpose the log-log graph paper over Graph 21 shifting it vertically until both inverse distance lines coincide and shifting it horizontally until the numerical distance at 1 kilometer on Graph 21 coincides with 1 kilometer on the log-log graph paper. The curve of Graph 21 corresponding to the calculated value of b is then traced on the log-log graph paper giving the field strength versus distance in kilometers.

(e) This paragraph consists of the following Graphs 1 to 20 and 21.

NOTE: The referenced graphs are not published in the CFR, nor will they be included in the Commission's automated rules system. For information on obtaining copies of the graphs, call or write the Consumer Affairs Office, Federal Communications Commission, Washington, DC 20054, Telephone: (202)632-7000.

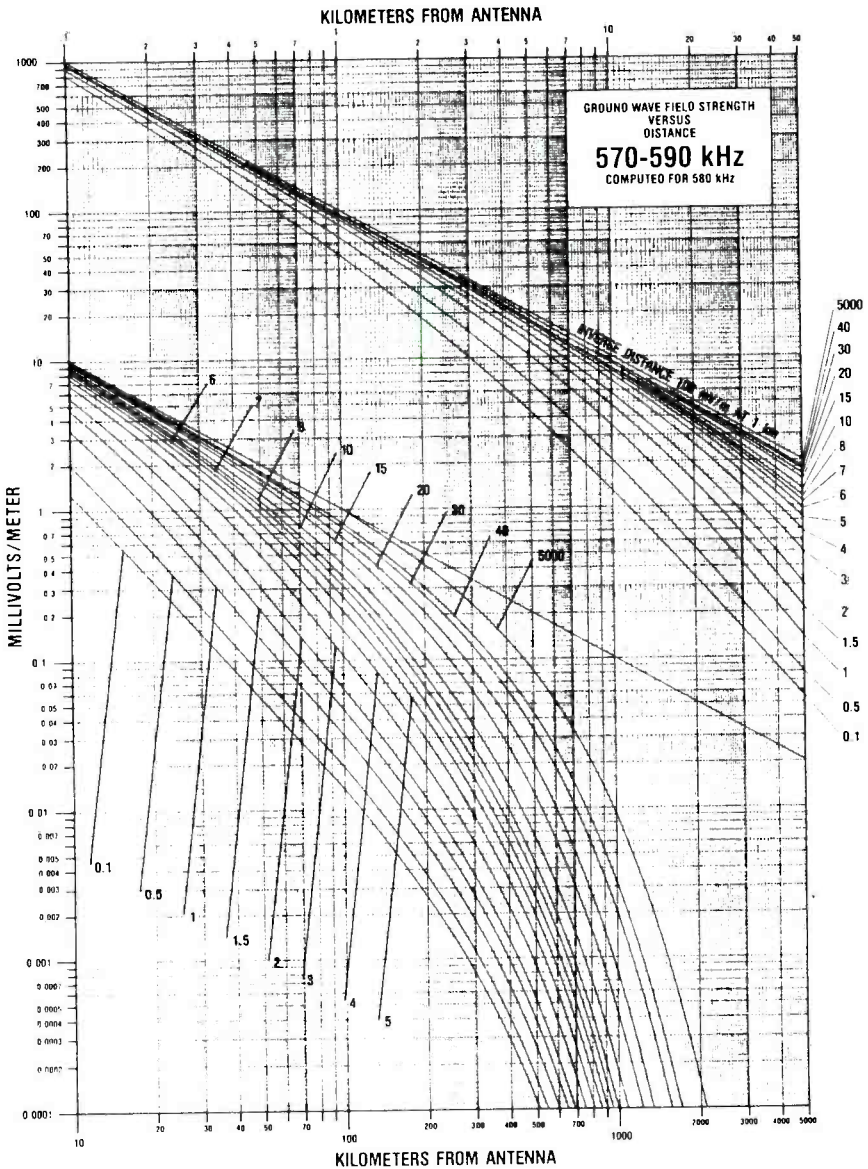
[Next Page is No. 107]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73



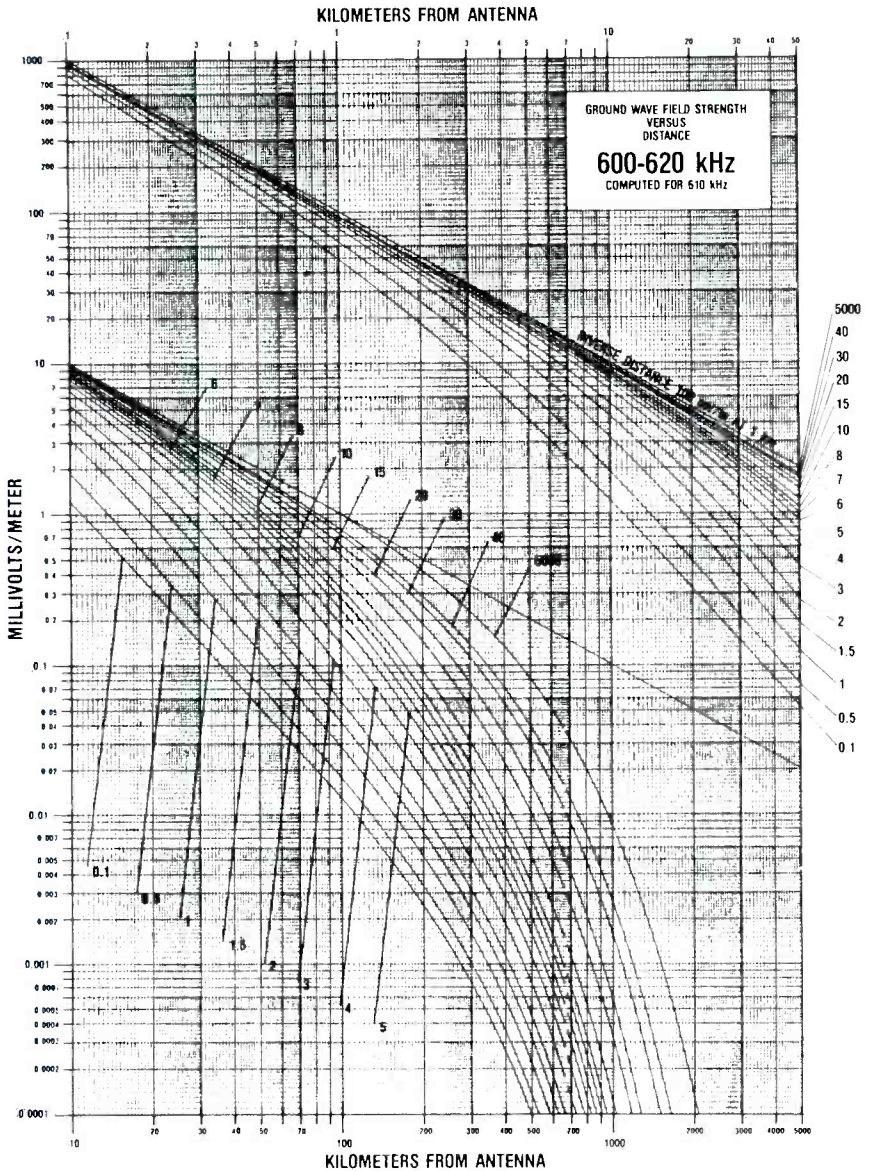
GRAPH 1

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73



GRAPH 2

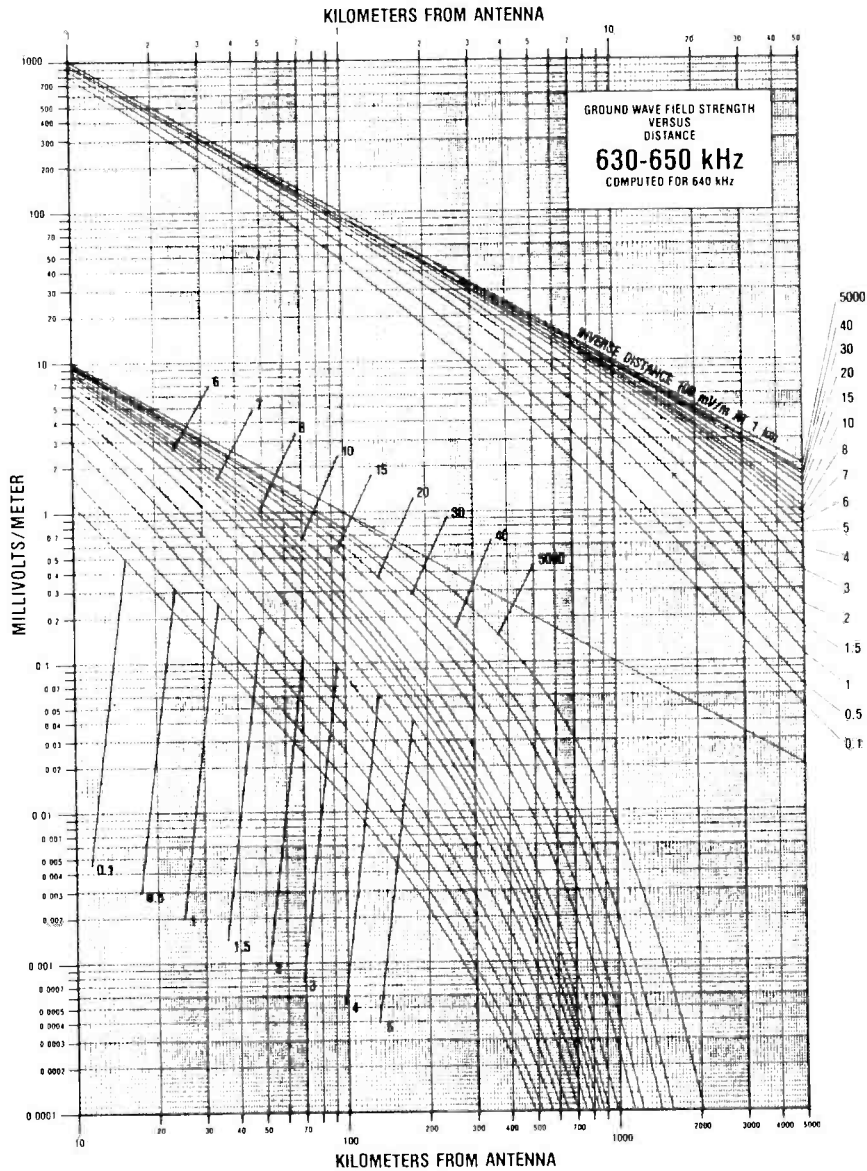
FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73



GRAPH 3

The curves are labeled with the ground conductivities in millisiemens/ meter. All curves except the 5000 mS/m (Sea Water) curve are derived for a relative dielectric constant of 15. The sea water curve is derived for a dielectric constant of 80.

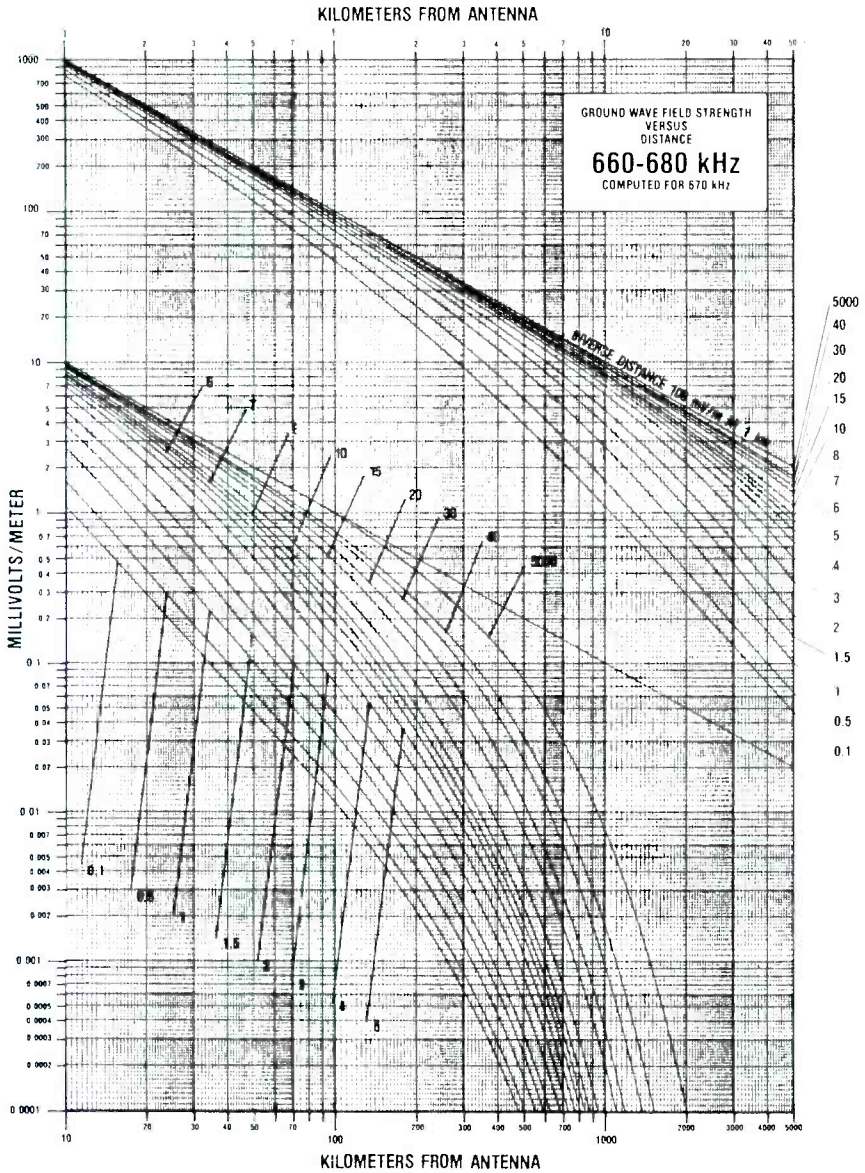
FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73



GRAPH 4

The curves are labeled with the ground conductivities in millisiemens/ meter. All curves except the 5000 mS/m (Sea Water) curve are derived for a relative dielectric constant of 15. The sea water curve is derived for a dielectric constant of 80.

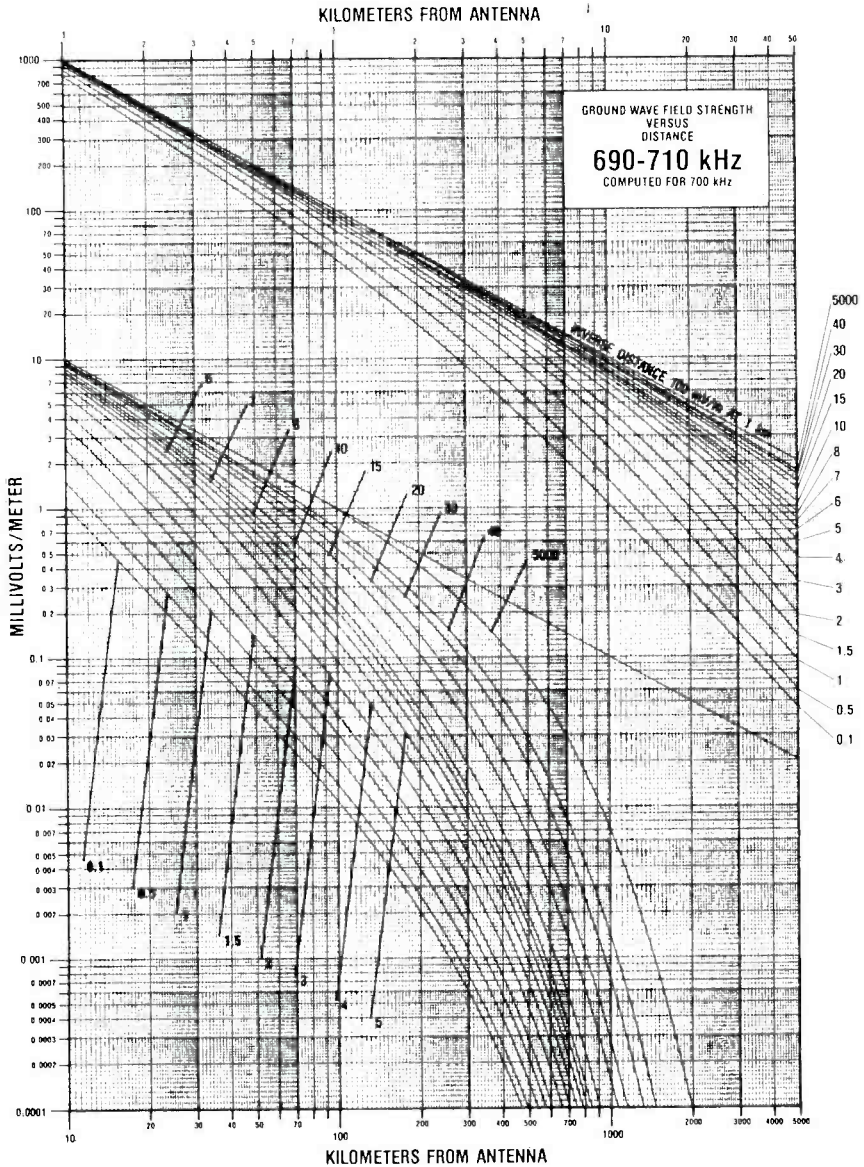
FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73



GRAPH 5

The curves are labeled with the ground conductivities in millisiemens/ meter. All curves except the 5000 mS/m (Sea Water) curve are derived for a relative dielectric constant of 15. The sea water curve is derived for a dielectric constant of 80.

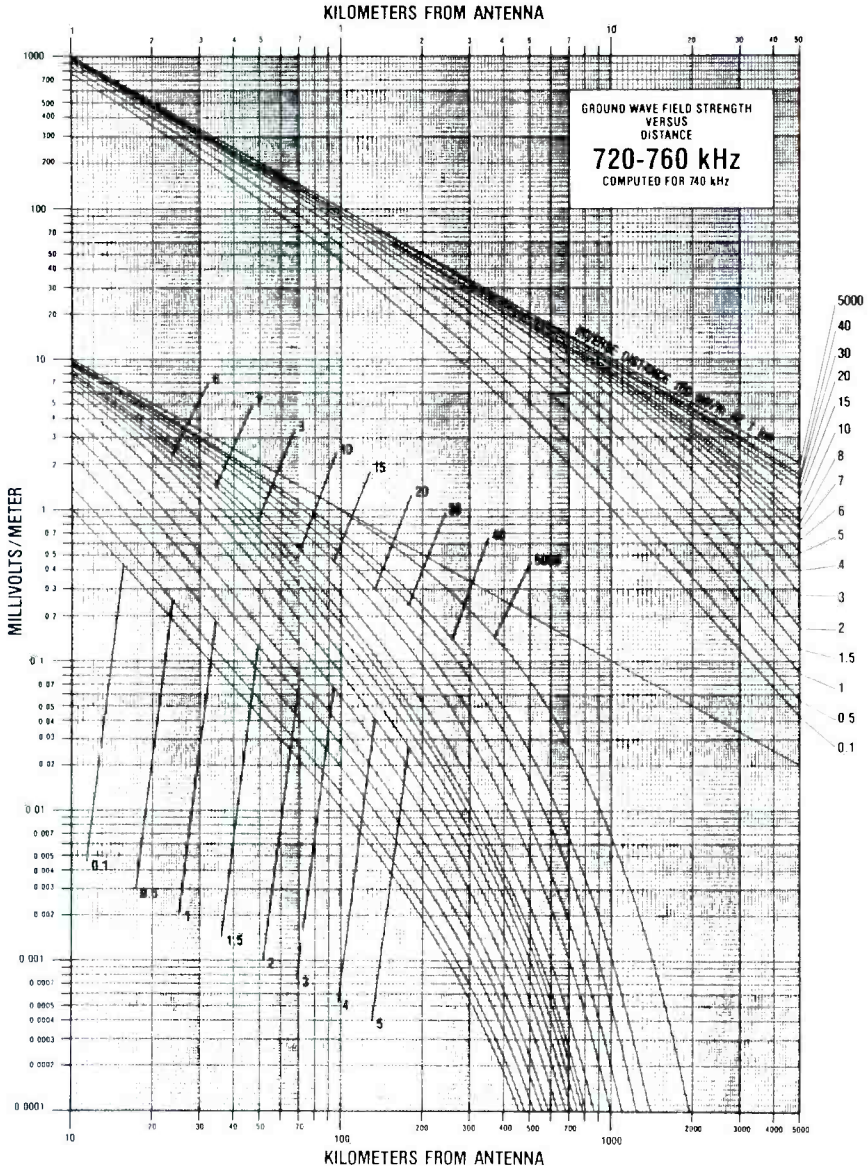
FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73



GRAPH 6

The curves are labeled with the ground conductivities in millisiemens/ meter. All curves except the 5000 mS/m (Sea Water) curve are derived for a relative dielectric constant of 15. The sea water curve is derived for a dielectric constant of 80.

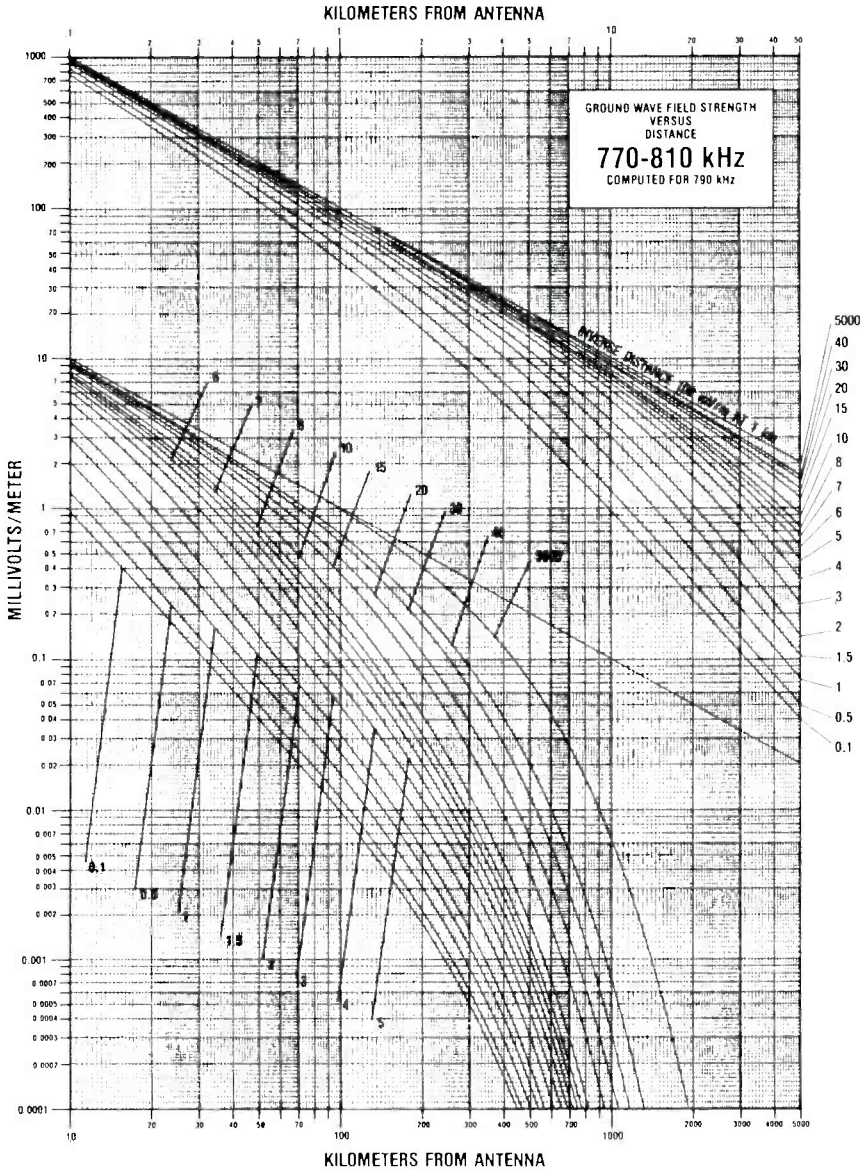
FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73



GRAPH 7

The curves are labeled with the ground conductivities in millisiemens/ meter. All curves except the 5000 mS/m (Sea Water) curve are derived for a relative dielectric constant of 15. The sea water curve is derived for a dielectric constant of 80.

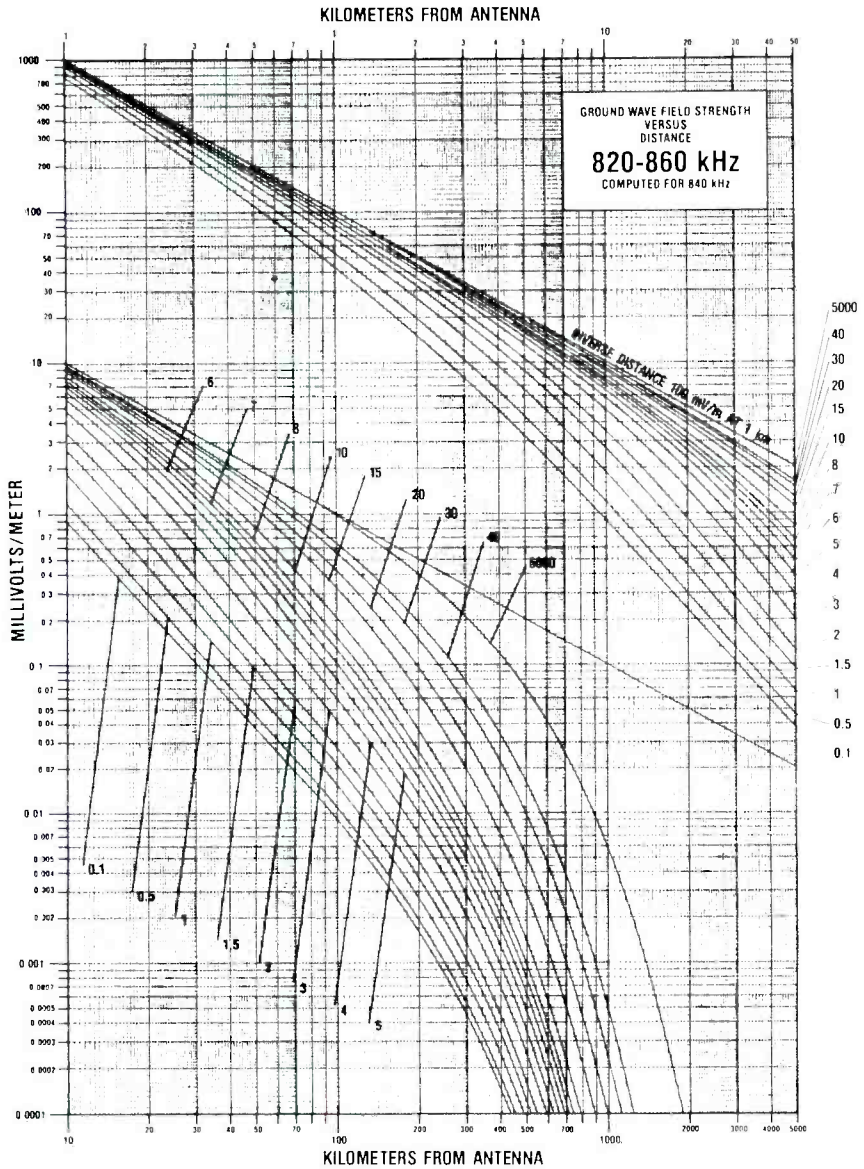
FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73



GRAPH 8

The curves are labeled with the ground conductivities in millisiemens/ meter. All curves except the 5000 mS/m (Sea Water) curve are derived for a relative dielectric constant of 15. The sea water curve is derived for a dielectric constant of 80.

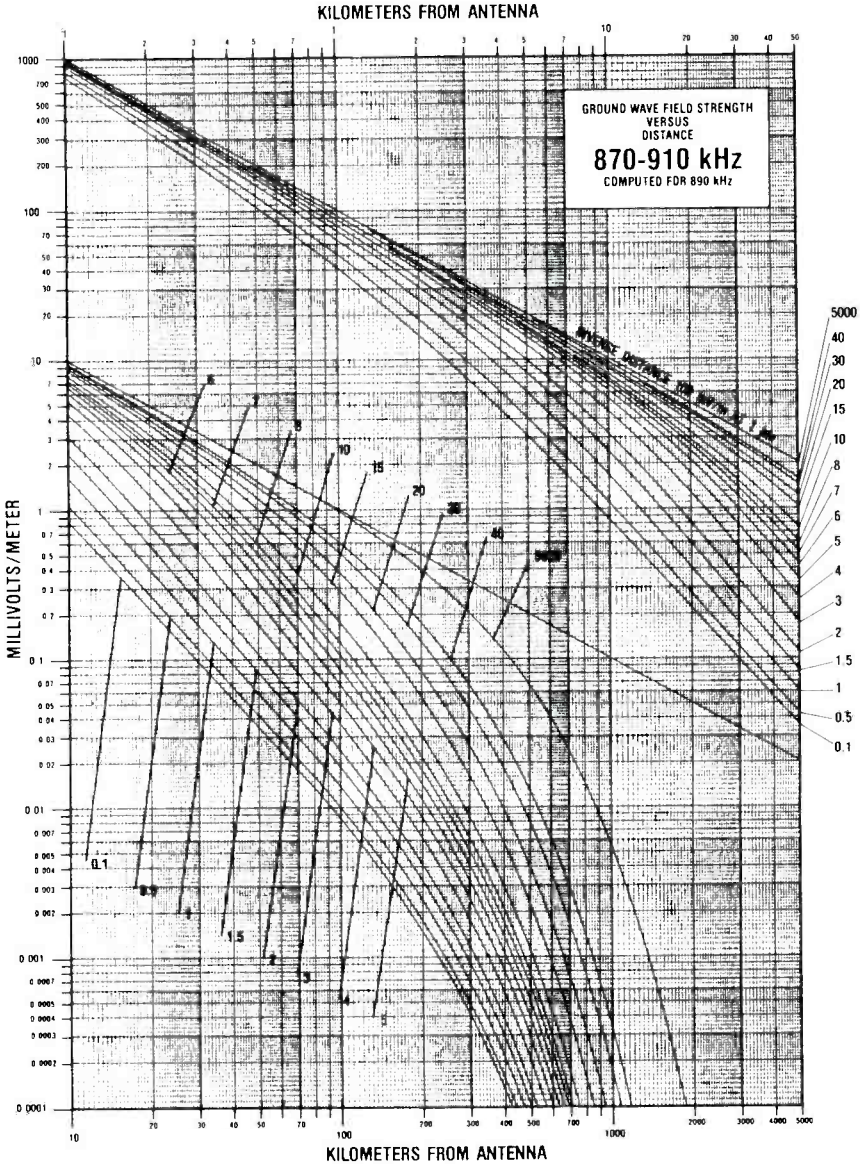
FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73



GRAPH 9

The curves are labeled with the ground conductivities in millisiemens/ meter. All curves except the 5000 mS/m (Sea Water) curve are derived for a relative dielectric constant of 15. The sea water curve is derived for a dielectric constant of 80.

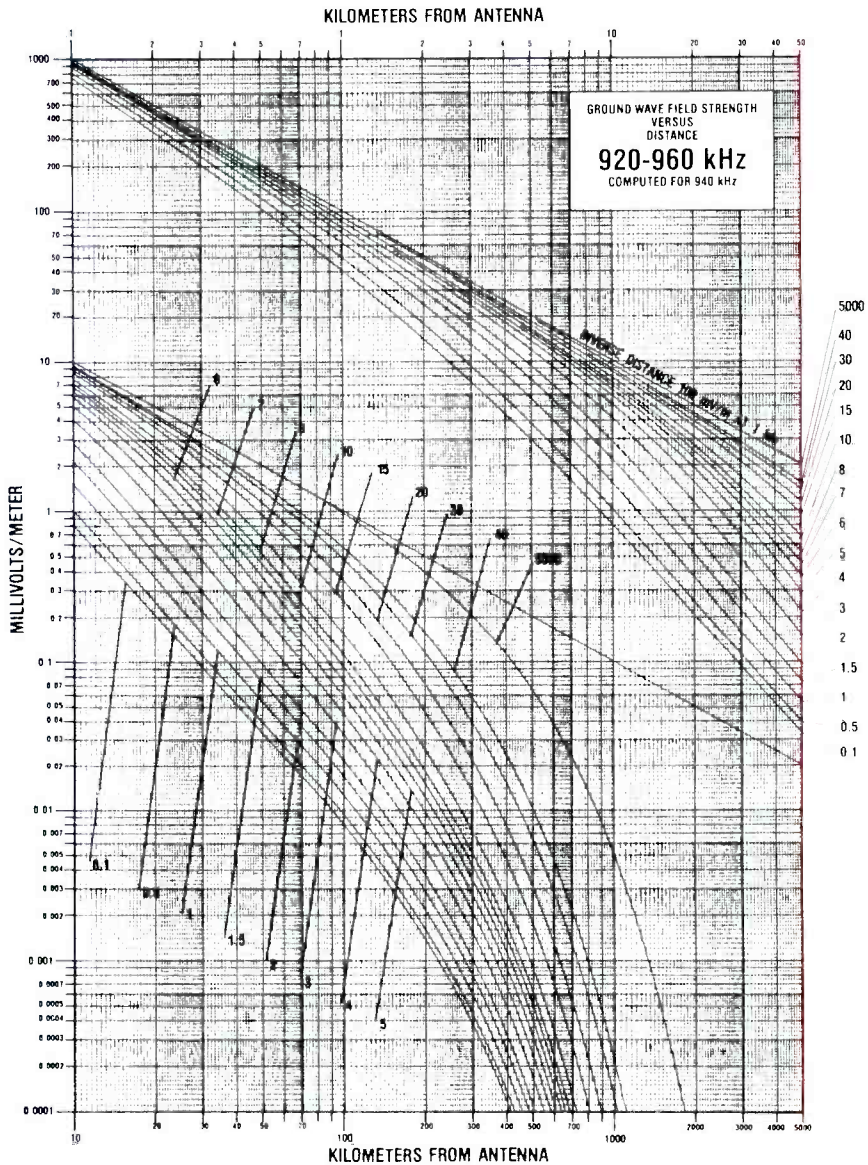
FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73



GRAPH 10

The curves are labeled with the ground conductivities in millisiemens/ meter. All curves except the 5000 mS/m (Sea Water) curve are derived for a relative dielectric constant of 15. The sea water curve is derived for a dielectric constant of 80.

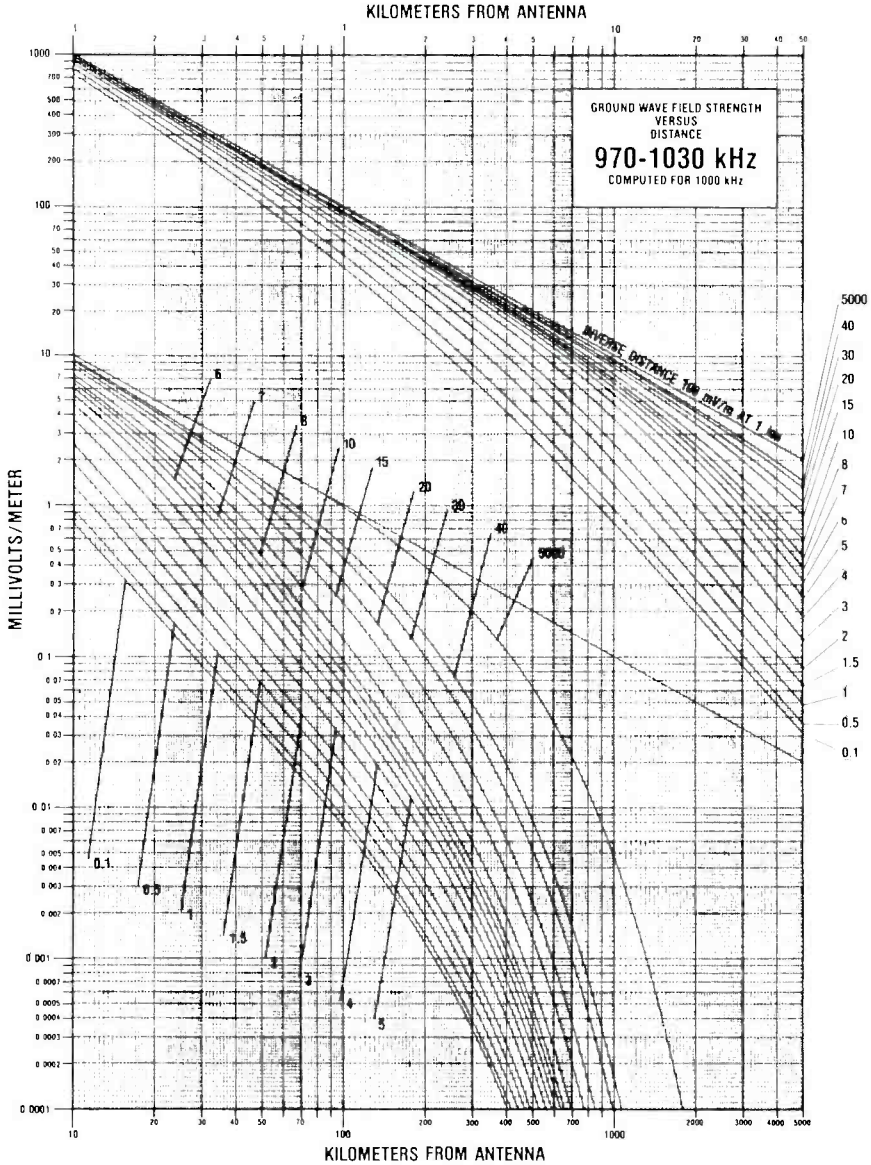
FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73



GRAPH 11

The curves are labeled with the ground conductivities in millisiemens/ meter. All curves except the 5000 mS/m (Sea Water) curve are derived for a relative dielectric constant of 15. The sea water curve is derived for a dielectric constant of 80.

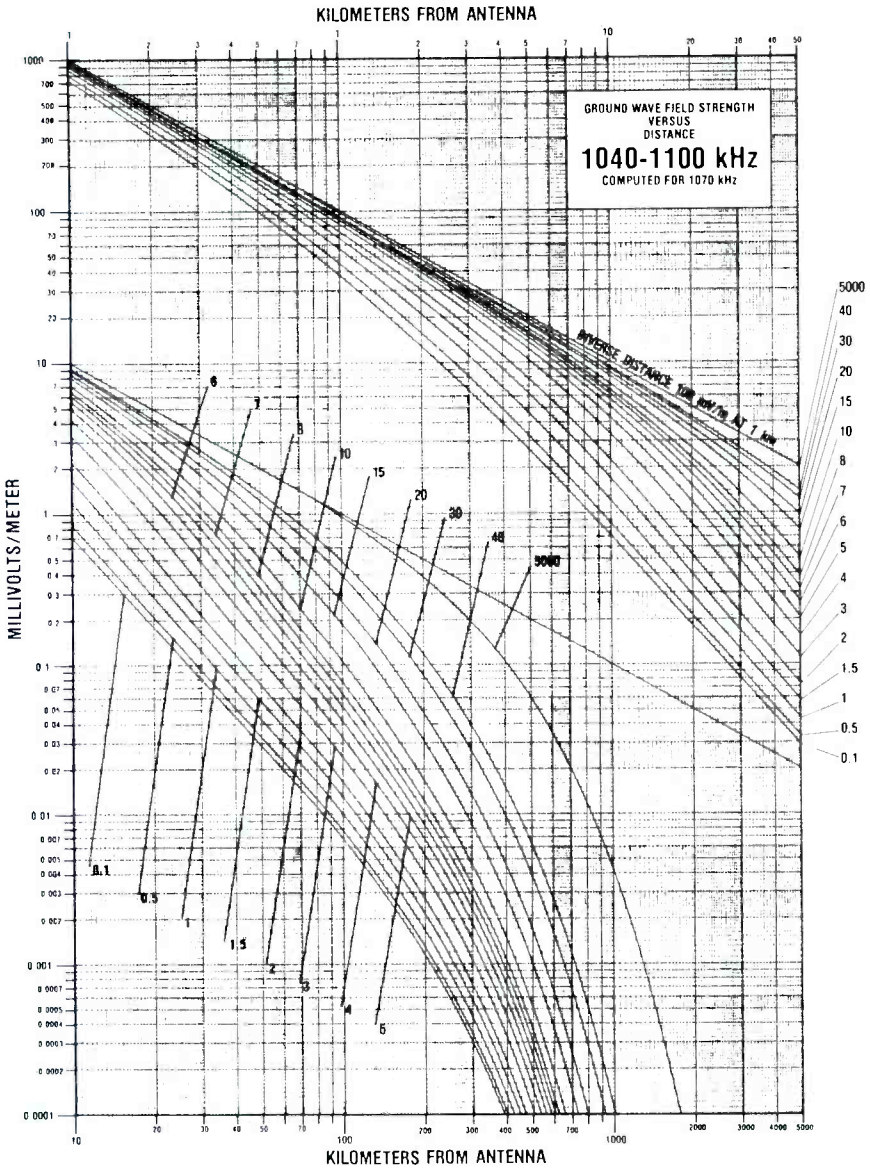
FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73



GRAPH 12

The curves are labeled with the ground conductivities in millisiemens/ meter. All curves except the 5000 mS/m (Sea Water) curve are derived for a relative dielectric constant of 15. The sea water curve is derived for a dielectric constant of 80.

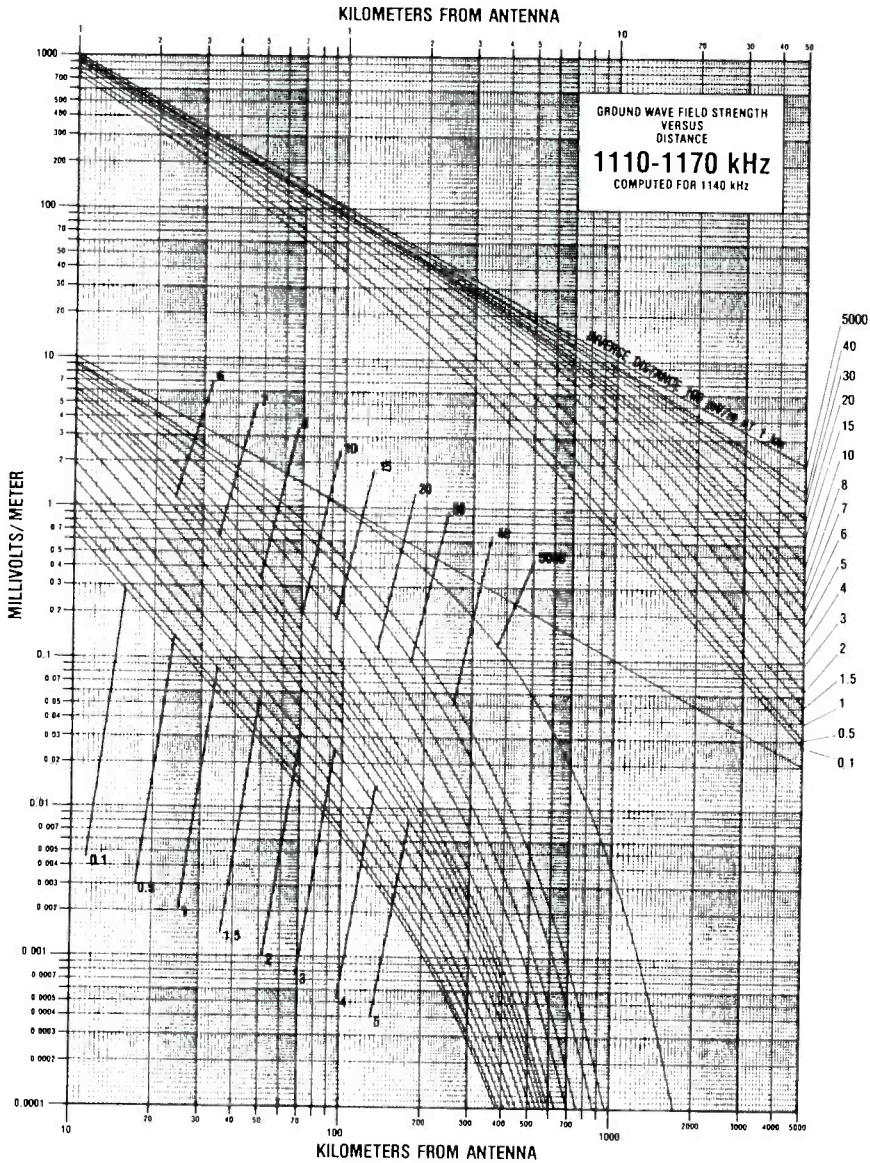
FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73



GRAPH 13

The curves are labeled with the ground conductivities in millisiemens/ meter. All curves except the 5000 mS/m (Sea Water) curve are derived for a relative dielectric constant of 15. The sea water curve is derived for a dielectric constant of 80.

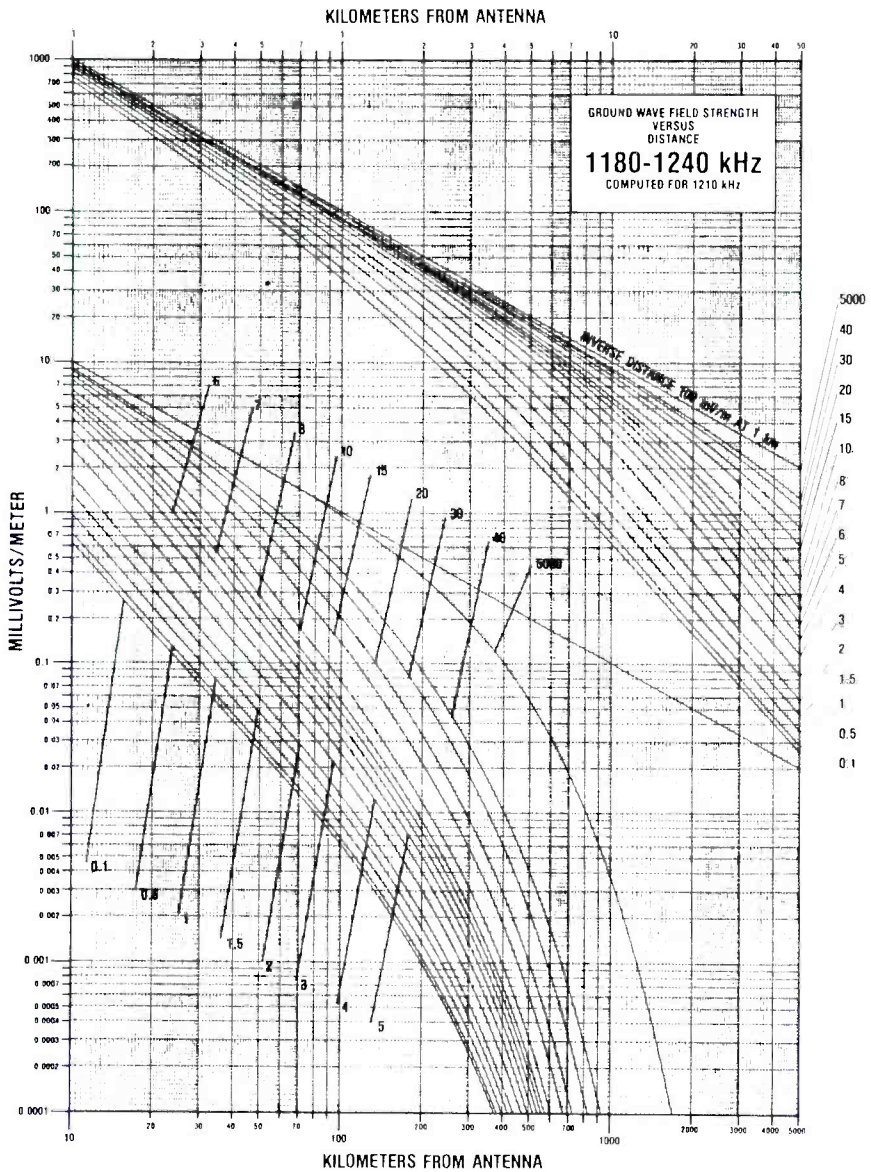
FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73



GRAPH 14

The curves are labeled with the ground conductivities in millisiemens/ meter. All curves except the 5000 mS/m (Sea Water) curve are derived for a relative dielectric constant of 15. The sea water curve is derived for a dielectric constant of 80.

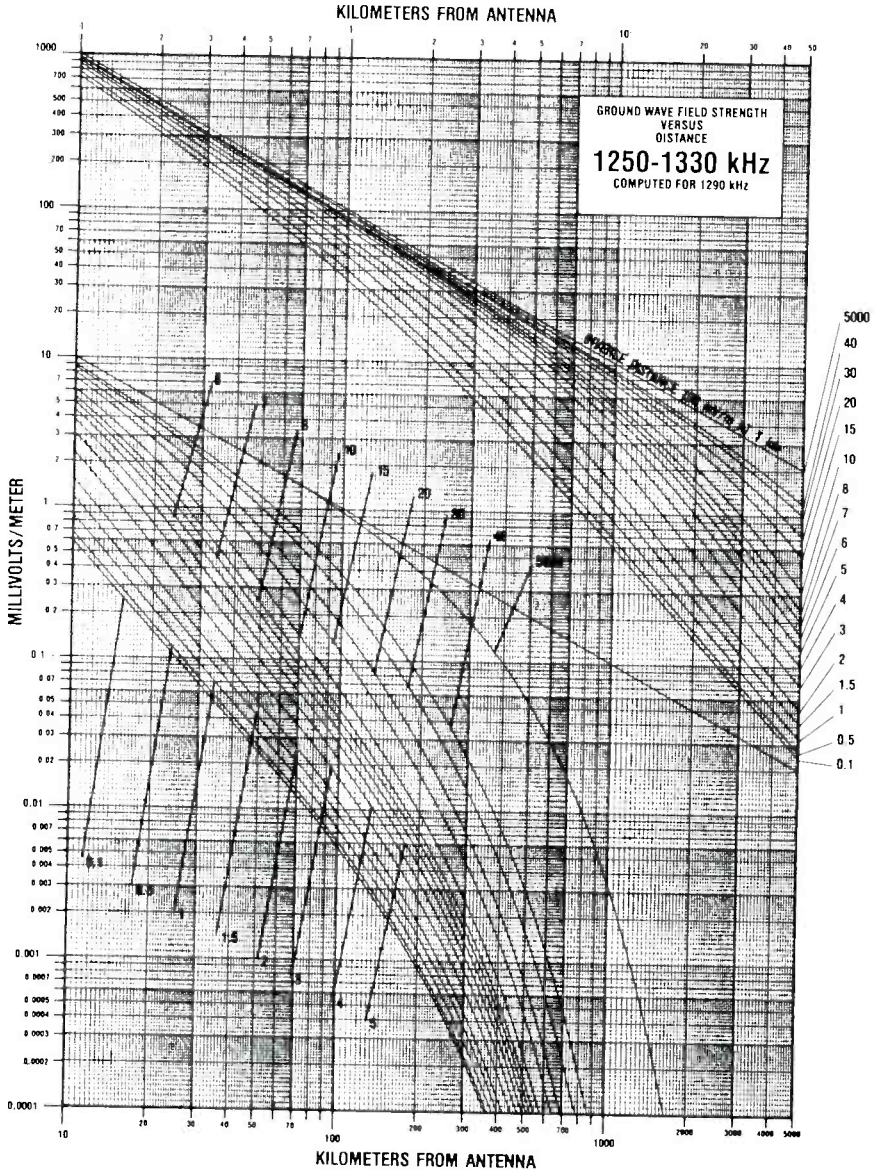
FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73



GRAPH 15

The curves are labeled with the ground conductivities in millisiemens/ meter. All curves except the 5000 mS/m (Sea Water) curve are derived for a relative dielectric constant of 15. The sea water curve is derived for a dielectric constant of 80.

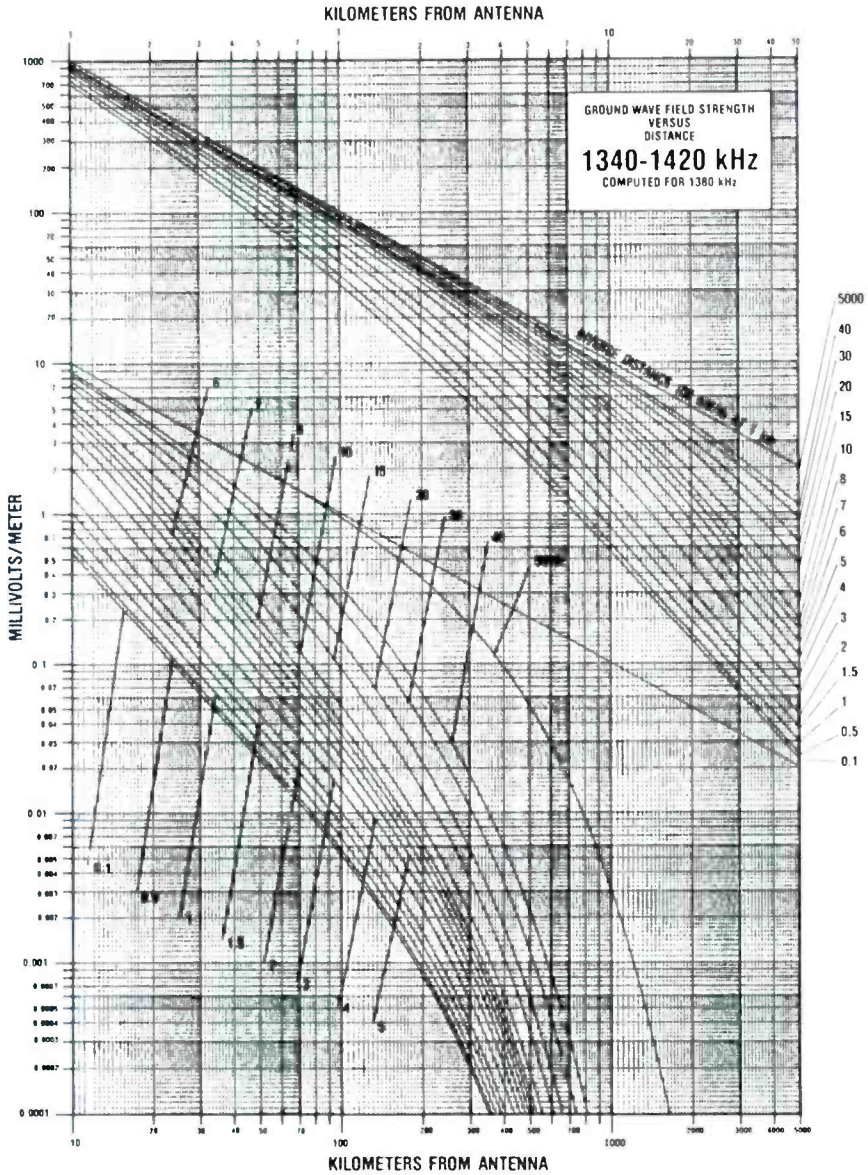
FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73



GRAPH 16

The curves are labeled with the ground conductivities in millisiemens/ meter. All curves except the 5000 mS/m (Sea Water) curve are derived for a relative dielectric constant of 15. The sea water curve is derived for a dielectric constant of 80.

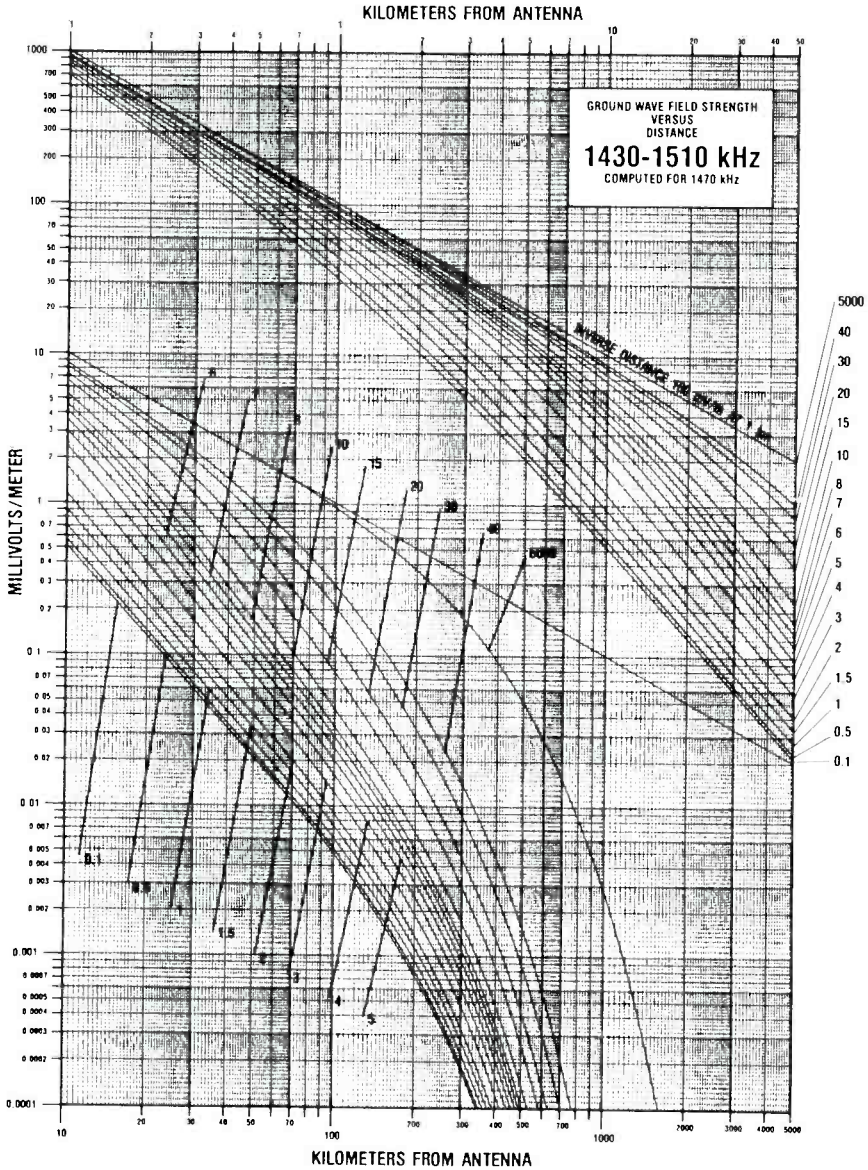
FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73



GRAPH 17

The curves are labeled with the ground conductivities in millisiemens/ meter. All curves except the 5000 mS/m (Sea Water) curve are derived for a relative dielectric constant of 15. The sea water curve is derived for a dielectric constant of 80.

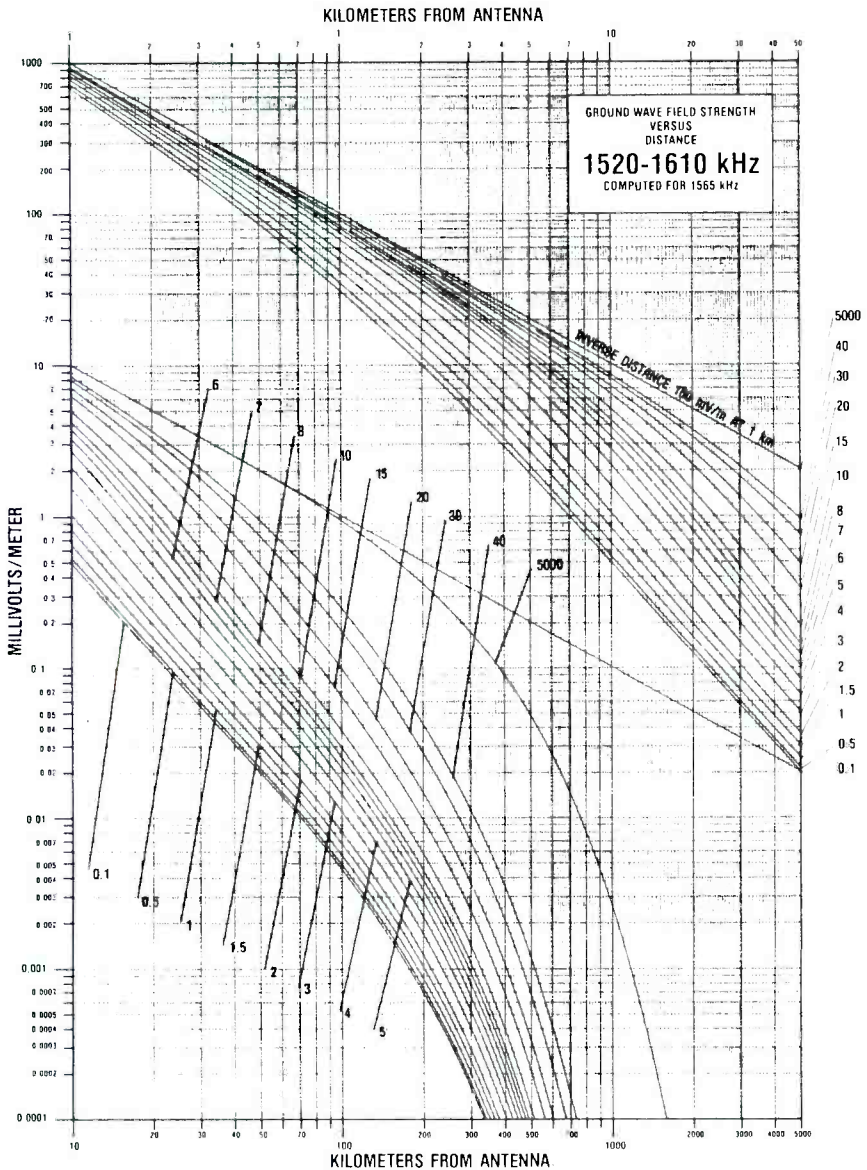
FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73



GRAPH 18

The curves are labeled with the ground conductivities in millisiemens/ meter. All curves except the 5000 mS/m (Sea Water) curve are derived for a relative dielectric constant of 15. The sea water curve is derived for a dielectric constant of 80.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

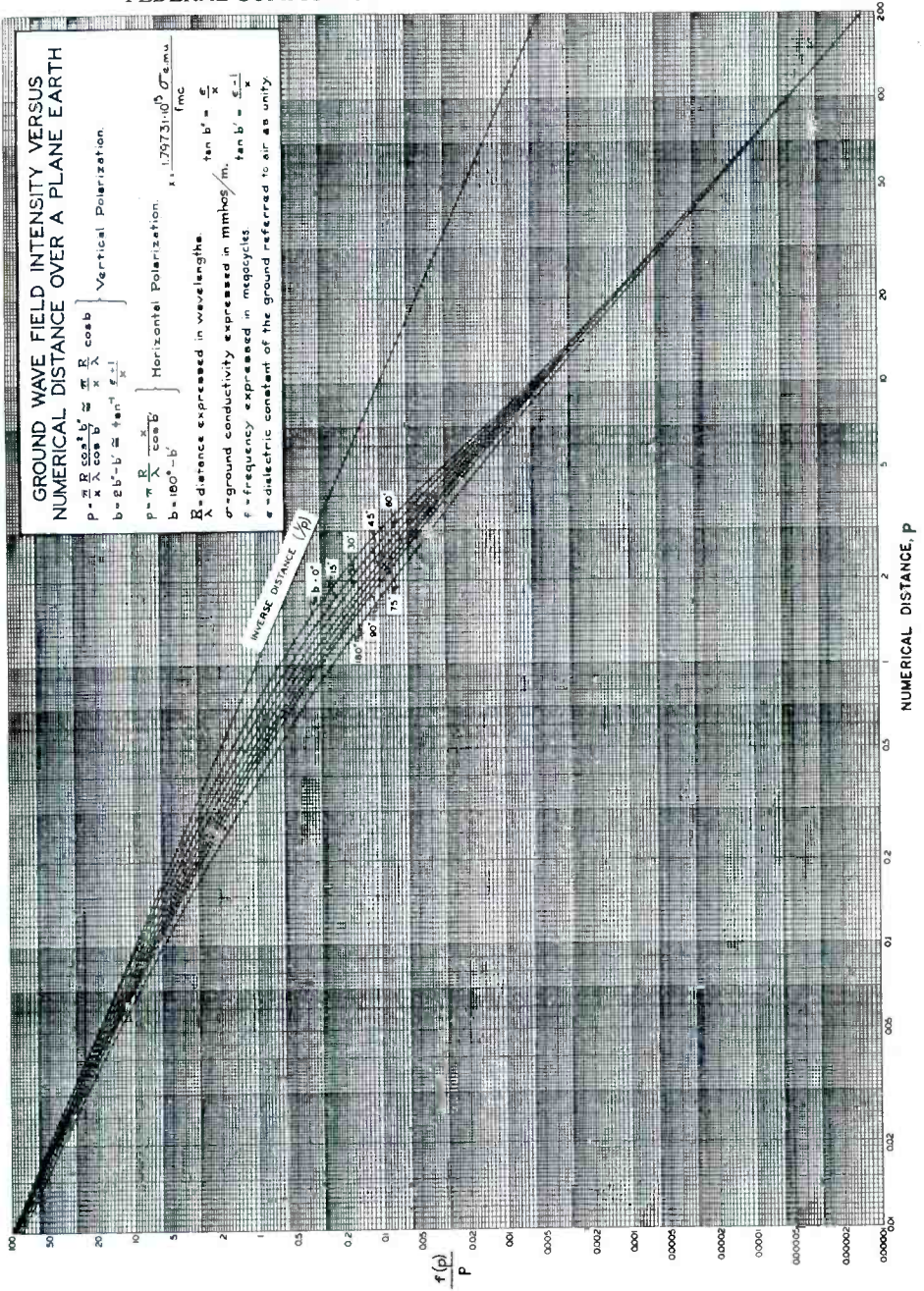


GRAPH 19

The curves are labeled with the ground conductivities in millisiemens/ meter. All curves except the 5000 mS/m (Sea Water) curve are derived for a relative dielectric constant of 15. The sea water curve is derived for a dielectric constant of 80.

[Next Page is No. 127]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73



[Next Page is No. 129]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.185 COMPUTATION OF INTERFERING SIGNAL.

(a) Measured values of radiation are not to be used in calculating overlap, interference, and coverage. (Added 81-45, 3/17/81)

- (1) In the case of an antenna which is intended to be non-directional in the horizontal plane, an ideal non-directional radiation pattern shall be used in determining interference, overlap, and coverage, even if the antenna is not actually nondirectional. (Added 81-45, 3/17/81)
- (2) In the case of an antenna which is directional in the horizontal plane, the radiation which shall be used in determining interference, overlap, and coverage is that calculated pursuant to § 73.150 or § 73.152, depending on whether the station has a standard or modified standard pattern. (Added 81-45, 3/17/81)
- (3) In the case of calculation of interference or overlap to (not from) a foreign station, the notified radiation shall be used, even if the notified radiation differs from that in paragraphs (a)(1) or (2) of this section. (Added 81-45, 3/17/81)

(b) For skywave signals from stations operating on all channels, interference shall be determined from the appropriate formulas and Figure 6a contained in § 73.190.

(c) The formulas in § 73.190(d) depicted in Figure 6a of § 73.190, entitled "Angles of Departure versus Transmission Range" are to be used in determining the angles in the vertical pattern of the antenna of an interfering station to be considered as pertinent to transmission by one reflection. To provide for variation in the pertinent vertical angle due to variations of ionosphere height and ionosphere scattering, the curves 2 and 3 indicate the upper and lower angles within which the radiated field is to be considered. The maximum value of field strength occurring between these angles shall be used to determine the multiplying factor to apply to the 10 percent skywave field intensity value determined from Formula 2 in § 73.190. The multiplying factor is found by dividing the maximum radiation between the pertinent angles by 100 mV/m.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(d) Example of the use of skywave curves and formulas: Assume a proposed new Class B station from which interference may be expected is located at a distance of 724 kilometers from a licensed Class B station. The proposed station specifies geographic coordinates of 40°00'00"N and 100°00'00"W and the station to be protected is located at an azimuth of 45° true at geographic coordinates of 44°26'05"N and 93°32'54"W. The critical angles of radiation as determined from Figure 6a of § 73.190 for use with Class B stations are 9.6° and 16.6°. If the vertical pattern of the antenna of the proposed station in the direction of the existing station is such that, between the angles of 9.6° and 16.6° above the horizon the maximum radiation is 260 mV/m at one kilometer, the value of the 50% field, as derived from Formula 1 of § 73.190, is 0.06217 mV/m at the location of the existing station. To obtain the value of the 10% field, the 50% value must be adjusted by a factor derived from Formula 2 of § 73.190. The value in this case is 8.42 dB. Thus, the 10% field is 0.1616 mV/m. Using this in conjunction with the co-channel protection ratio of 26 dB, the resultant nighttime limit from the proposed station to the licensed station is 3.232 mV/m.

(e) In the case of an antenna which is non-directional in the horizontal plane, the vertical distribution of the relative fields should be computed pursuant to § 73.160. In the case of an antenna which is directional in the horizontal plane, the vertical pattern in the great circle direction toward the point of reception in question must first be calculated. In cases where the radiation in the vertical plane, at the pertinent azimuth, contains a large lobe at a higher angle than the pertinent angle for one reflection, the method of calculating interference will not be restricted to that just described; each such case will be considered on the basis of the best knowledge available.

(f) In performing calculations to determine permissible radiation from stations operating presunrise or postsunset in accordance with § 73.99, calculated diurnal factors will be multiplied by the values of skywave field strength for such stations obtained from Formula 1 or 2 of § 73.190.

- (1) The diurnal factor is determined using the time of day at the mid-point of path between the site of the interfering station and the point at which interference is being calculated. Diurnal factors are computed using the formula $D_f = a + bF + cF^2 + dF^3$ where:

D_f represents the diurnal factor,

F is the frequency in MHz, a, b, c, and d are constants obtained from the table in paragraph (k)(2)

[Next Page Is No. 130.1]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

A diurnal factor greater than one will not be used in calculations and interpolation is to be used between calculated values where necessary. For reference purposes, curves for pre-sunrise and post-sunset diurnal factors are contained in Figures 13 and 14 of § 73.190. (Added 83-412, 10/20/83)

- (2) Constants used in calculating diurnal factors for the presunrise and postsunset periods are contained in paragraphs (f)(2)(i) and (ii) of this section respectively. The columns labeled T_{mp} represent the number of hours before and after sunrise and sunset at the path midpoint.

73.185(f)(2)(i)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(i) PRESUNRISE CONSTANTS.*

T_{mp}	a	b	c	d
-2	1.3084	.0083	-.0155	.0144
-1.75	1.3165	-.4919	.6011	-.1884
-1.5	1.0079	.0296	.1488	-.0452
-1.25	.7773	.3751	-.1911	.0736
-1	.6230	.1547	.2654	-.1006
-.75	.3718	.1178	.3632	-.1172
-.5	.2151	.0737	.4167	-.1413
-.25	.2027	-.2560	.7269	-.2577
SR	.1504	-.2325	.5374	-.1729
+.25	.1057	-.2092	.4148	-.1239
+5	.0642	-.1295	.2583	-.0699
+.75	.0446	-.1002	.1754	-.0405
+1	.0148	.0135	.0462	.0010

(ii) POST SUNSET CONSTANTS.*

T_{mp}	a	b	c	d
1.75	.9495	-.0187	.0720	-.0290
1.5	.7196	.3583	-.2280	.0611
1.25	.6756	.1518	.0279	-.0163
1.0	.5486	.1401	.0952	-.0288
.75	.3003	.4050	-.0961	.0256
.5	.1186	.4281	-.0799	.0197
.25	.0382	.3706	-.0673	.0171
SS	.0002	.3024	-.0540	.0086
-.25	.0278	.0458	.1473	-.0486
-.5	.0203	.0132	.1166	-.0340
-.75	.0152	-.0002	.0786	-.0185
-1.0	-.0043	.0452	-.0040	.0103
-1.25	.0010	.0135	.0103	.0047
-1.5	.0018	.0052	.0069	.0042
-1.75	-.0012	.0122	-.0076	.0076
-2.0	-.0024	.0141	-.0141	.0091

(*Added 83-412, 10/20/83)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.186 ESTABLISHMENT OF EFFECTIVE FIELD AT ONE KILOMETER.

(a) Section ~~73.46~~ 73.189 provides that certain minimum field strengths are acceptable in lieu of the required minimum physical heights of the antennas proper. Also, in other situations, it may be necessary to determine the effective field. The following requirements shall govern the taking and submission of data on the field strength produced:

- (1) Beginning as near to the antenna as possible without including the induction field and to provide for the fact that a broadcast antenna is not a point source of radiation (not less than one wave length or 5 times the vertical height in the case of a single element, i.e., nondirectional antenna or 10 times the spacing between the elements of a directional antenna), measurements shall be made on eight or more radials, at intervals of approximately 0.2 kilometer up to 3 kilometers (1.87 miles) from the antenna, at intervals of approximately 1 kilometer from 3 kilometers (1.87 miles) to 10 kilometers (6.2 miles) from the antenna, at intervals of approximately 3 kilometers from 10 kilometers (6.2 miles) to 25 or 34 kilometers (15.5 miles or 20 miles) from the antenna, and a few additional measurements if needed at greater distances from the antenna. Where the antenna is rurally located and unobstructed measurements can be made, there shall be as many as 18 measurements on each radial. However, where the antenna is located in a city where unobstructed measurements are difficult to make, measurements shall be made on each radial at as many unobstructed locations as possible, even though the intervals are considerably less than stated above, particularly within 3 kilometers of the antenna. In cases where it is not possible to obtain accurate measurements at the closer distances (even out to 8 or 10 kilometers due to the character of the intervening terrain), the measurements at greater distances should be made at closer intervals. (It is suggested that "wave tilt" measurements may be made to determine and compare locations for taking field strength measurements, particularly to determine that there are no abrupt changes in ground conductivity or that reflected waves are not causing abnormal strengths.) (Revised 85-150, 6/3/85)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (2) The data required by paragraph (a)(1) of this section should be plotted for each radial in accordance with either of the two methods set forth below: (Edit. Amdt. 12/21/63)
- (i) Using log-log coordinate paper, plot field strengths as ordinate and distance as abscissa. (Edit. Amdt. 12/21/63)
 - (ii) Using semi-long coordinate paper, plot field strength times distance as ordinate on the log scale and distance as abscissa on the linear scale.
- (3) However, regardless of which of the methods in ~~subparagraph (a)(2) of this paragraph~~ section is employed, the proper curve to be drawn through the points plotted shall be determined by comparison with the curves in § 73.184 as follows: Place the sheet on which the actual points have been plotted over the appropriate Graph in § 73.184, hold to the light if necessary and adjust until the curve most closely matching the points is found. This curve should then be drawn on the sheet on which the points were plotted, together with the inverse distance curve corresponding to that curve. The field at 1 ~~mile~~ kilometer for the radial concerned shall be the ordinate on the inverse distance curve at 1 ~~mile~~ kilometer.
- (4) When all radials have been analyzed in accordance with ~~subparagraph (a)(3) of this paragraph~~ section, a curve shall be plotted on polar coordinate paper from the fields obtained, which gives the inverse distance field pattern at 1 ~~mile~~ kilometer. The radius of a circle, the area of which is equal to the area bounded by this pattern, is the effective field. (See § 73.14.)

[Next Page is No. 131]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

~~(5) In analyzing the results of a partial proof of performance as defined in § 73.154 when the data are insufficient for independent graphical analysis, either of two analysis methods may be used. In such cases, either the arithmetic average or logarithmic average of the ratios of field strength at each measurement point along each radial to the corresponding field strength in the latest complete proof of performance may be utilized to establish the inverse distance fields. (The logarithmic average for each radial is the antilogarithm of the mean of the logarithms of the ratios of field strength (new to old) for each measurement location along a given radial.)~~

(6) (5) The antenna power of the station shall be maintained at the authorized level during all field measurements. The power determination will be made using the direct method as described in § 73.51(a) with instruments of acceptable accuracy specified in § 73.1215.

(b) Complete data taken in conjunction with the field strength measurements shall be submitted to the Commission in affidavit form including the following: (Revised 84-628, 12/12/84)

- (1) Tabulation by number of each point of measurement to agree with the map required in paragraph (b)(2) of this section, the date and time of each measurement, the field strength (E), the distance from the antenna (D) and the product of the field strength and distance (ED) (if data for each radial are plotted on semilogarithmic paper, see above) for each point of measurement. (Revised 76-914, 10/13/76)
- (2) Map showing each point of measurement numbered to agree with tabulation required above.
- (3) Description of method used to take field strength measurements. (Revised 76-914, 10/13/76)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (4) The family of theoretical curves used in determining the curve for each radial properly identified by conductivity and dielectric constants.
- (5) The curves drawn for each radial and the field strength pattern. (Revised 76-914, 10/13/76)
- (6) Antenna resistance measurement. The antenna resistance at the operating frequency.
 - ~~(i) Antenna resistance at operating frequency.~~
 - ~~(ii) Description of method employed.~~
 - ~~(iii) Tabulation of complete data.~~
 - ~~(iv) Curve showing antenna resistance versus frequency.~~
- (7) Antenna current or currents maintained during field strength measurements. (Revised 76-914, 10/13/76)
- ~~(8) Description, accuracy, date, and by when each instrument was last calibrated.~~
- ~~(9) Name, address, and qualifications of the engineer making the measurements.~~
- ~~(10) Any other pertinent information.~~

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.187 LIMITATION ON DAYTIME RADIATION.

(a) (1) Except as otherwise provided in paragraphs (a)(2) and (3) of this section, no authorization will be granted for a Class B or Class D station on a frequency specified in § 73.25 if the proposed operation would radiate during the period of critical hours (the two hours after local sunrise and the two hours before local sunset) toward any point on the 0.1 mV/m contour of a co-channel U.S. Class A station, at or below the pertinent vertical angle determined from Curve 2 of Figure 6a of § 73.190, values in excess of those obtained as provided in paragraph (b) of this section.

(2) The limitation set forth in paragraph (a)(1) of this section shall not apply in the following cases:

(i) Any Class B or Class D operation authorized before November 30, 1959; or

(ii) For Class B or Class D stations authorized before November 30, 1959, subsequent changes of facilities which do not involve a change in frequency, an increase in radiation toward any point on the 0.1 mV/m contour of a co-channel U.S. Class A station, or the move of transmitter site materially closer to the 0.1 mV/m contour of such Class A station.

(3) A Class B or Class D station authorized before November 30, 1959, and subsequently authorized to increase daytime radiation in any direction toward the 0.1 mV/m contour of a co-channel U.S. Class A station (without a change in frequency or a move of transmitter site materially closer to such contour), may not, during the two hours after local sunrise or the two hours before local sunset, radiate in such directions a value exceeding the higher of:

(i) The value radiated in such directions with facilities last authorized before November 30, 1959, or

(ii) The limitation specified in paragraph (a)(1) of this section.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(b) To obtain the maximum permissible radiation for a Class B or Class D station on a given frequency from 640 through 990 kHz, multiply the radiation value obtained for the given distance and azimuth from the 500 kHz chart (Figure 9 of § 73.190) by the appropriate interpolation factor shown in the K₅₀₀ column of paragraph (c) of this section; and multiply the radiation value obtained for the given distance and azimuth from the 1000 kHz chart (Figure 10 of § 73.190) by the appropriate interpolation factor shown in the K₁₀₀₀ column of paragraph (c) of this section. Add the two products thus obtained; the result is the maximum radiation value applicable to the Class B or Class D station in the pertinent directions. For frequencies from 1010 to 1580 kHz, obtain in a similar manner the proper radiation values from the 1000 and 1600 kHz charts. (Figures 10 and 11 of § 73.190), multiply each of these values by the appropriate interpolation factors in the K'₁₀₀₀ and K'₁₆₀₀ columns in paragraph (c) of this section, and add the products.

(c) INTERPOLATION FACTORS.

(1) FREQUENCIES BELOW 1000 kHz.

f _{k Hz}	K 500	K 1000	f _{k Hz}	K 500	K 1000
640	0.720	0.280	780	0.440	0.560
650	0.700	0.300	800	0.400	0.600
660	0.680	0.320	810	0.380	0.620
670	0.660	0.340	820	0.360	0.640
680	0.640	0.360	830	0.340	0.660
690	0.620	0.380	840	0.320	0.680
700	0.600	0.400	850	0.300	0.700
710	0.580	0.420	860	0.280	0.720
720	0.560	0.440	870	0.260	0.740
730	0.540	0.460	880	0.240	0.760
740	0.520	0.480	890	0.220	0.780
750	0.500	0.500	900	0.200	0.800
760	0.480	0.520	940	0.120	0.880
770	0.460	0.540	990	0.020	0.980

[Next Page is No. 134.1]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(2) FREQUENCIES ABOVE 1000 kHz.

f'k Hz	K'1000	K'1600	f'k Hz	K'1000	K'1600
1010	0.983	0.007	1170	0.717	0.283
1020	0.967	0.033	1180	0.700	0.300
1030	0.950	0.050	1190	0.683	0.317
1040	0.933	0.067	1200	0.667	0.333
1050	0.917	0.083	1210	0.650	0.350
1060	0.900	0.100	1220	0.633	0.367
1070	0.883	0.117	1500	0.167	0.833
1080	0.867	0.133	1510	0.150	0.850
1090	0.850	0.150	1520	0.133	0.867
1100	0.833	0.167	1530	0.117	0.883
1110	0.817	0.183	1540	0.100	0.900
1120	0.800	0.200	1550	0.083	0.917
1130	0.783	0.217	1560	0.067	0.933
1140	0.767	0.233	1570	0.050	0.950
1160	0.733	0.267	1580	0.033	0.967

[Next Page is No. 135]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.188 [DELETED]. (Deleted 85-659, 2/18/86)

73.189 MINIMUM ANTENNA HEIGHTS OR FIELD STRENGTH REQUIREMENTS.

(a) Section 73.45 requires that all applicants for new, additional, or different broadcast facilities and all licensees requesting authority to move the transmitter of an existing station, shall specify a radiating system, the efficiency of which complies with the requirements of good engineering practice for the class and power of the station.

(b) The specifications deemed necessary to meet the requirements of good engineering practice at the present state of the art are set out in detail below.

- (1) The licensee of an AM broadcast station requesting a change in power, time of operation, frequency, or transmitter location must also request authority to install a new antenna system or to make changes in the existing antenna system which will meet the minimum height requirements, or submit evidence that the present antenna system meets the minimum requirements with respect to field strength, before favorable consideration will be given thereto. (See § 73.186.) In the event it is proposed to make substantial changes in an existing antenna system, the changes shall be such as to meet the minimum height requirements or will be permitted subject to the submission of field strength measurements showing that it meets the minimum requirements with respect to effective field strength. (Edit. Amdt. 9/1/80)
- (2) These minimum actual physical vertical heights of antennas permitted to be installed are shown by curves A, B, and C of Figure 7 of § 73.190 as follows:
 - (i) Class C stations, and stations in Alaska, Hawaii, Puerto Rico and the U.S. Virgin Islands on 1230, 1240, 1340, 1400, 1450 and 1490 kHz that were formerly Class C and were redesignated as Class B pursuant to § 73.26(b), 45 meters or a minimum effective field strength of 241 mV/m for 1 kW (121 mV/m for 0.25 kW). (This height applies to a Class C station on a local channel only. Curve A shall apply to any Class C stations in the 48 conterminous States that are assigned to Regional channels.)
 - (ii) Class A (Alaska), Class B and Class D stations other than those covered in § 73.189(b)(2)(i), a minimum effective field strength of 282 mV/m for 1 kW.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (iii) Class A stations, a minimum effective field strength of 362 mV/m for 1 kW.
- (3) The heights given on the graph for the antenna apply regardless of whether the antenna is located on the ground or on a building. Except for the reduction of shadows, locating the antenna on a building does not necessarily increase the efficiency and where the height of the building is in the order of a quarter wave the efficiency may be materially reduced.
- (4) At the present development of the art, it is considered that where a vertical radiator is employed with its base on the ground, the ground system should consist of buried radial wires at least one-fourth wave length long. There should be as many of these radials evenly spaced as practicable and in no event less than 90. (120 radials of 0.35 to 0.4 of a wave length in length and spaced 3° is considered an excellent ground system and in case of high base voltage, a base screen of suitable dimensions should be employed.) (Revised 85-659, 2/18/86)
- (5) In case it is contended that the required antenna efficiency can be obtained with an antenna of height or ground system less than the minimum specified, a complete field strength at a mile without absorption fulfills the minimum requirements. (See § 73.186.) This field survey must be made by a qualified engineer using equipment of acceptable accuracy. (Revised 85-659, 2/18/86)
- (6) The main element or elements of a directional antenna system shall meet the above minimum requirements with respect to height or effective field strength. No directional antenna system will be approved which is so designed that the effective field of the array is less than the minimum prescribed for the class of station concerned, or in case of a Class A station less than 90 percent of the ground wave field which would be obtained from a perfect antenna of the height specified by Figure 7 of § 73.190 for operation on frequencies below 1000 kHz, and in the case of a Class B or Class D station less than 90 percent of the ground wave field which would be obtained from a perfect antenna of the height specified by Figure 7 of § 73.190 for operation on frequencies below 750 kHz.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.190 ENGINEERING CHARTS AND RELATED FORMULAS.

(a) This section consists of the following Figures: 2, r3, 5, 6a, 7, 8, 9, 10, 11, 12, and 13. Additionally, formulas that are directly related to graphs are included.

(b) Formula 1 is used for calculation of 50% skywave field strength values.

Formula 1. Skywave field strength, 50% of the time (at SS+6):

The skywave field strength, $F_c(50)$, for a characteristic field strength of 100 mV/m at 1 km is given by:

$$F_c(50) = (97.5 - 20 \log D) - (2\pi + 4.95 \tan^2 \phi_M) \sqrt{\left(\frac{D}{1000}\right)} \text{ dB}(\mu\text{V/m}) \quad (\text{Eq. 1})$$

The slant distance, D , is given by: $D = \sqrt{40,000 + d^2} \text{ km} \quad (\text{Eq. 2})$

The geomagnetic latitude of the midpoint of the path, ϕ_M , is given by:

$$\phi_M = \arcsin [\sin a_M \sin 78.5^\circ + \cos a_M \cos 78.5^\circ \cos (69 + b_M)] \text{ degrees} \quad (\text{Eq. 3})$$

The short great-circle path distance, d , is given by:

$$d = 111.18d' \text{ km} \quad (\text{Eq. 4})$$

Where:

$$d' = \arccos [\sin a_\tau \sin a_R + \cos a_\tau \cos a_R \cos (b_R - b_\tau)] \text{ degrees.} \quad (\text{Eq. 5})$$

Where:

a_τ is the geographic latitude of the transmitting terminal (degrees)

a_R is the geographic latitude of the receiving terminal (degrees)

b_τ is the geographic longitude of the transmitting terminal (degrees)

b_R is the geographic longitude of the receiving terminal (degrees)

a_M is the geographic latitude of the midpoint of the great-circle path (degrees) and is given by:

b_M is the geographic longitude of the midpoint of the great-circle path (degrees) and is given by:

$$a_M = 90 - \arccos \left[\sin a_R \cos \left(\frac{d'}{2}\right) + \cos a_R \sin \left(\frac{d'}{2}\right) \left(\frac{\sin a_\tau - \sin a_R \cos d'}{\cos a_R \sin d'} \right) \right] \quad (\text{Eq. 6})$$

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

$$b_M = b_R + k \left[\arccos \left(\frac{\cos\left(\frac{d'}{2}\right) \sin a_R \sin a_M}{\cos a_R \cos a_M} \right) \right] \quad (\text{Eq. 7})$$

NOTE (1): If $|\phi_M|$ is greater than 60 degrees, equation (1) is evaluated for $|\phi_M| = 60$ degrees.

NOTE (2): North and east are considered positive; south and west negative.

NOTE (3): In equation (7), $k = -1$ for west to east paths (i.e., $b_R > b_T$), otherwise $k = 1$.

(c) Formula 2 is used for calculation of 10% skywave field strength values.

Formula 2. Skywave field strength, 10% of the time (at SS+6):

The skywave field strength, $F_c(10)$, is given by:

$$F_c(10) = F_c(50) + \Delta \quad \text{dB}(\mu\text{V/m})$$

Where:

$$\Delta = 6 \text{ when } |\phi_M| < 40$$

$$\Delta = 0.2 |\phi_M| - 2 \text{ when } 40 \leq |\phi_M| \leq 60$$

$$\Delta = 10 \text{ when } |\phi_M| > 60$$

(d) Figure 6a depicts angles of departure versus transmission range. These angles may also be computed using the following formulas: (Added 85-150, 6/3/85)

$$* \quad \theta^\circ = \tan^{-1} \left(K_n \cot \frac{d}{444.54} \right) - \frac{d}{444.54}$$

Where:

d is distance in kilometers

$n=1$ for 50% field strength values

$n=2$ or 3 for 10% field strength values

and Where:

$$K_1 = 0.00752$$

$$K_2 = 0.00938$$

$$K_3 = 0.00565$$

NOTE: Computations using these formulas should not be carried beyond 0.1 degree.

(e) In the event of disagreement between computed values using the formulas shown above and values obtained directly from the figures, the computed values will control.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

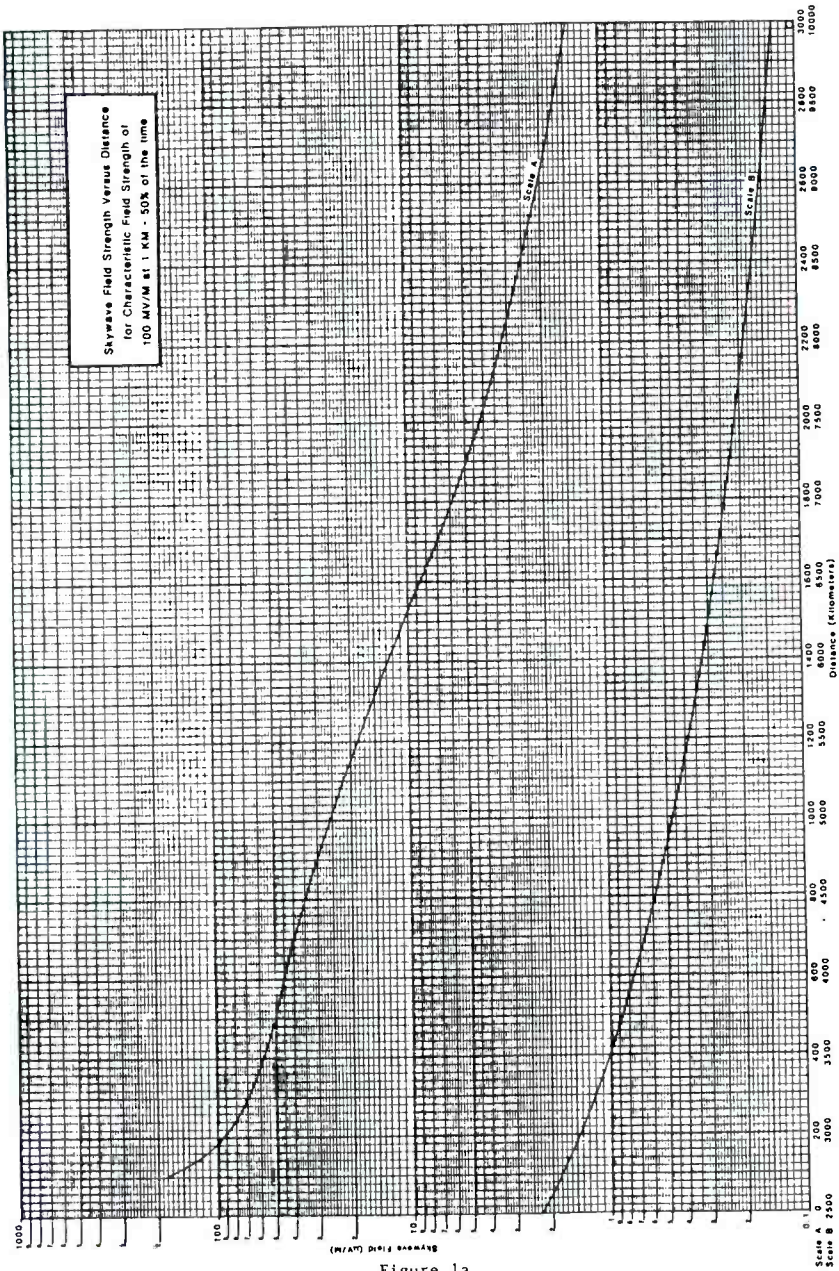
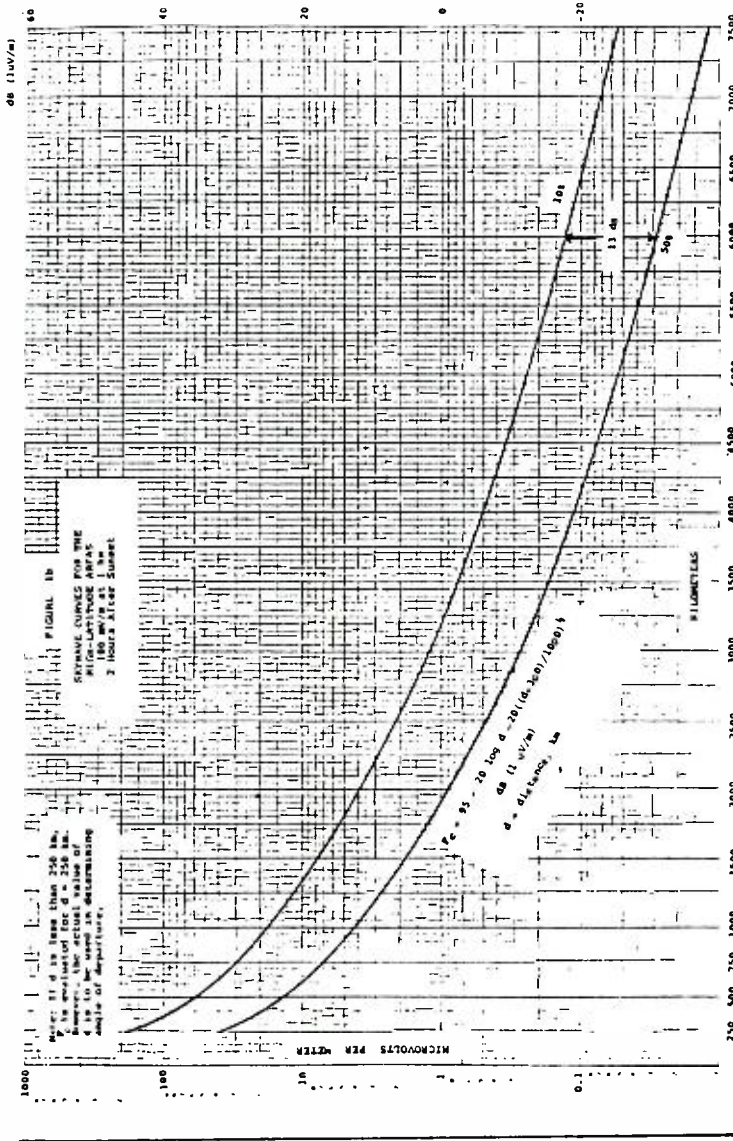


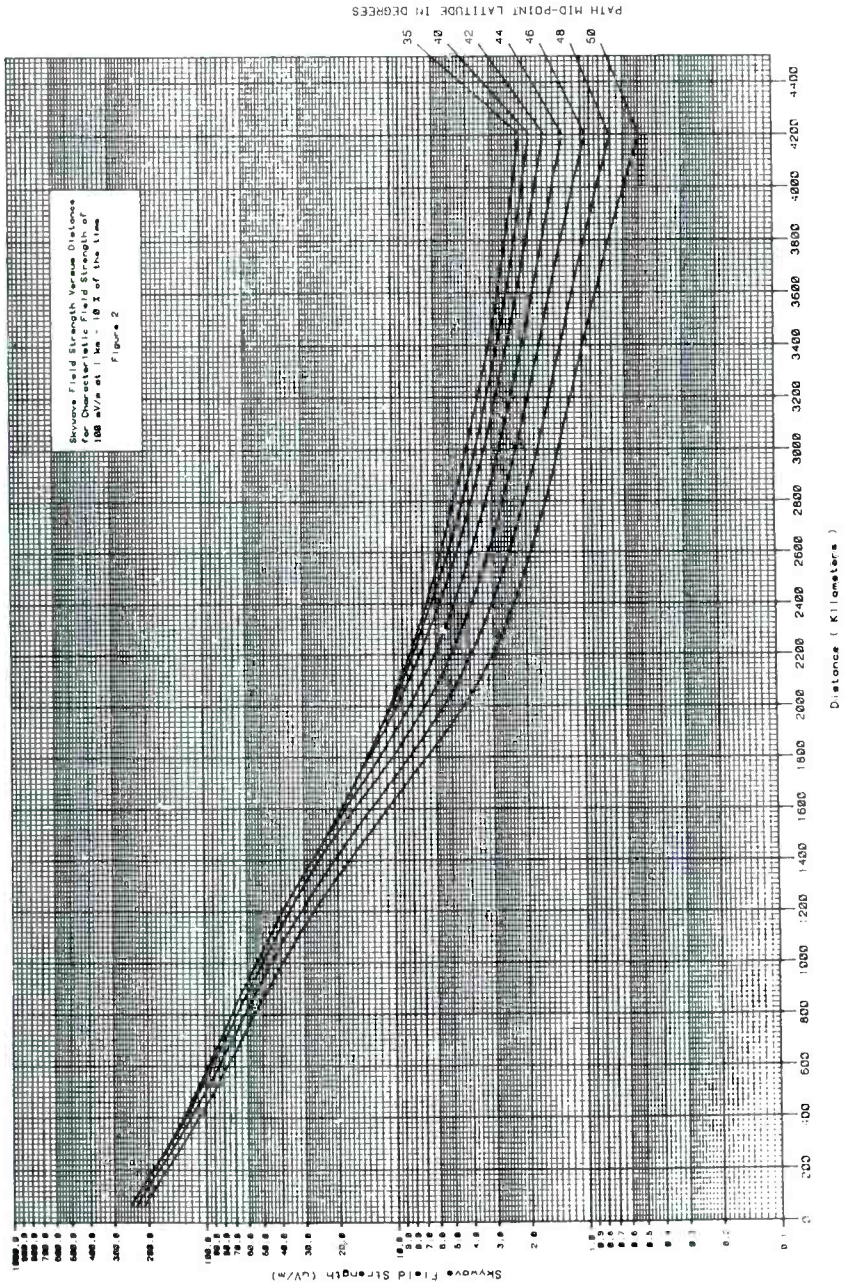
Figure 1a

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

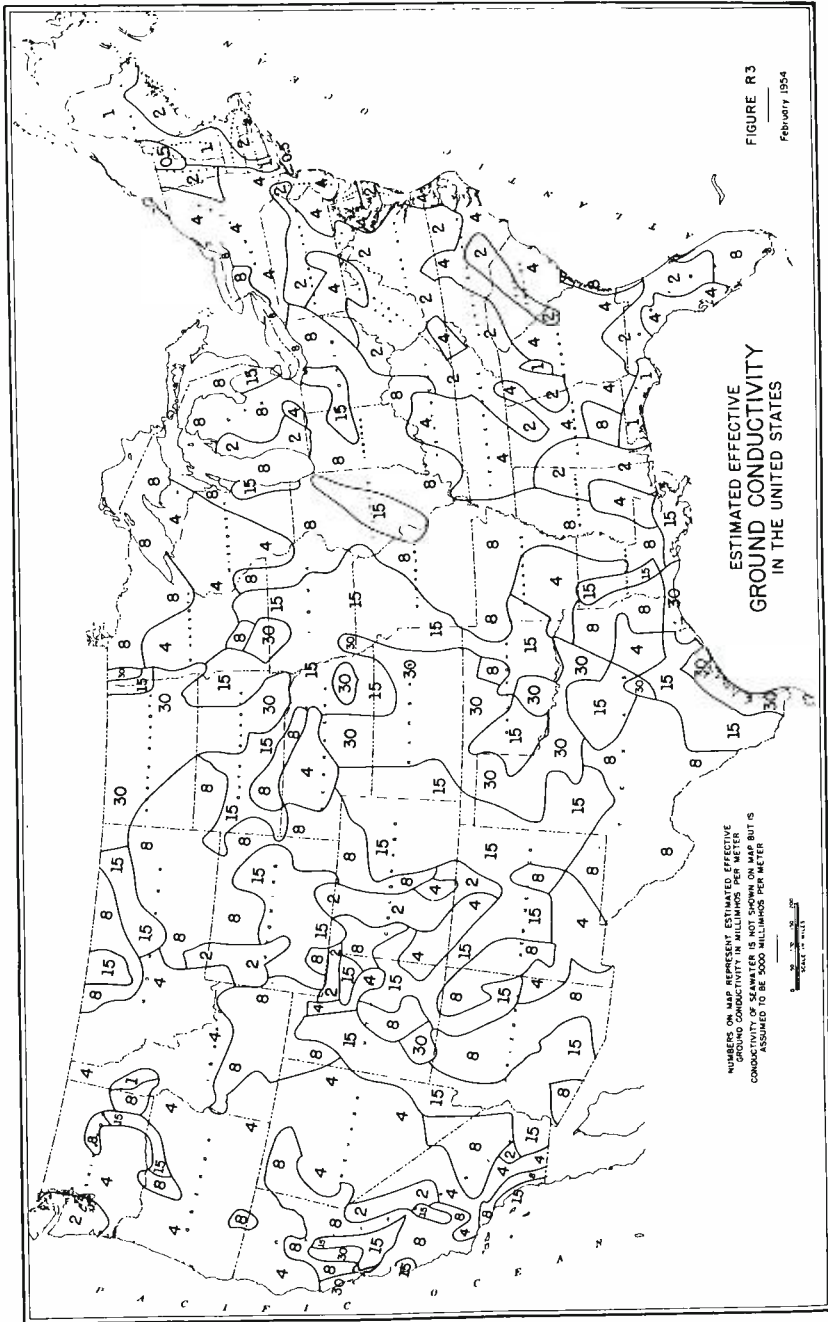


[Next Page is No. 153]

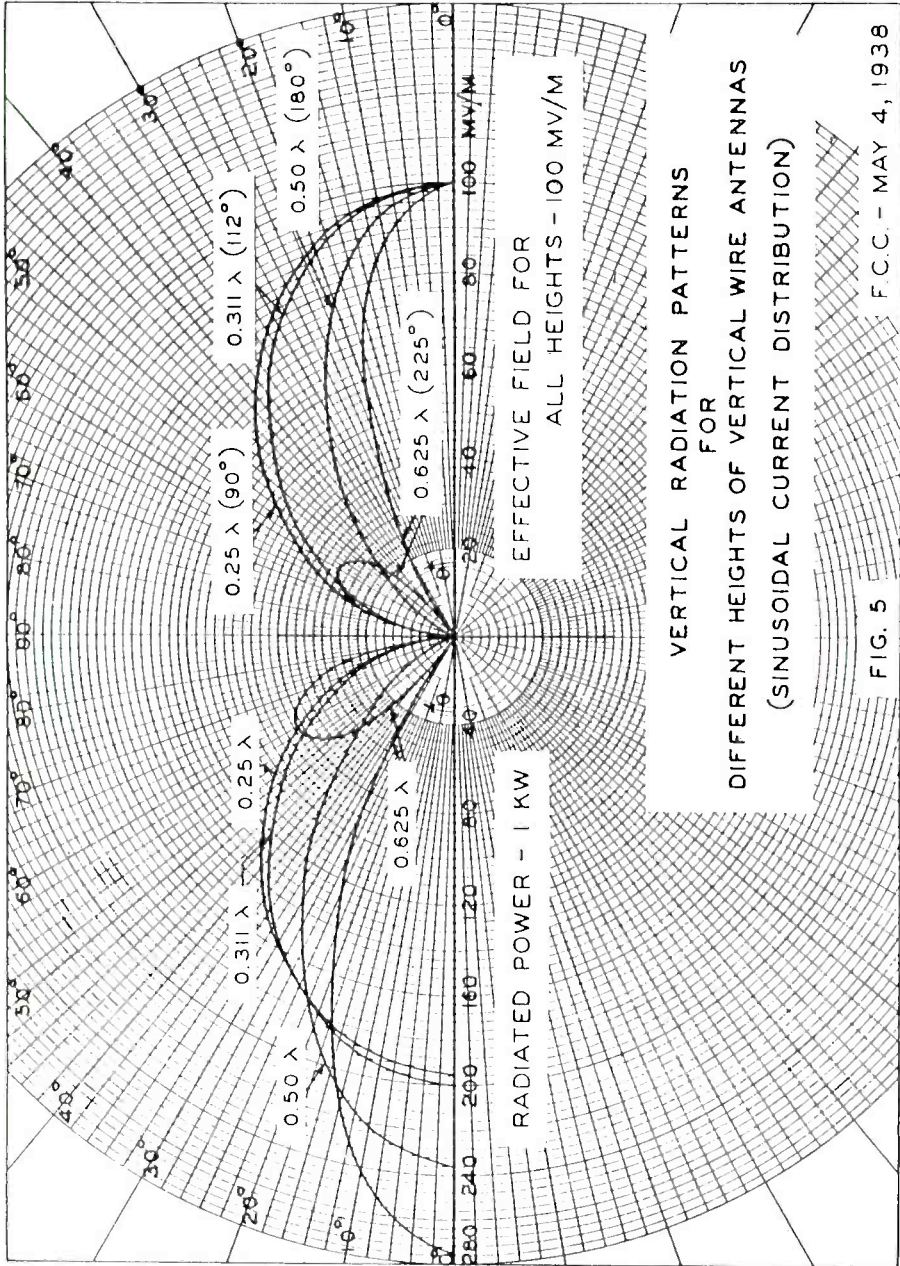
FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73



FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

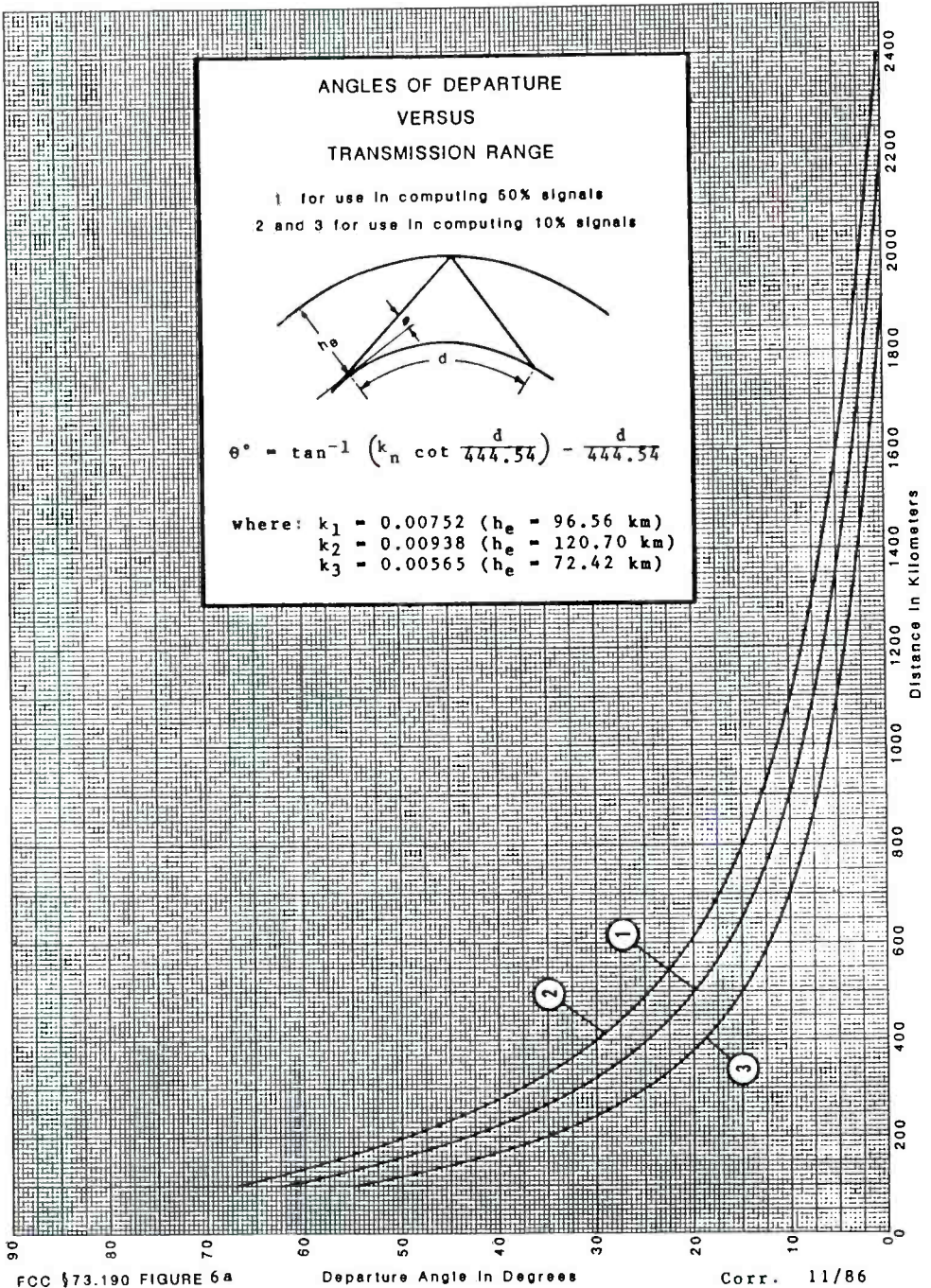


FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73



[Next Page is No. 157]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73



FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

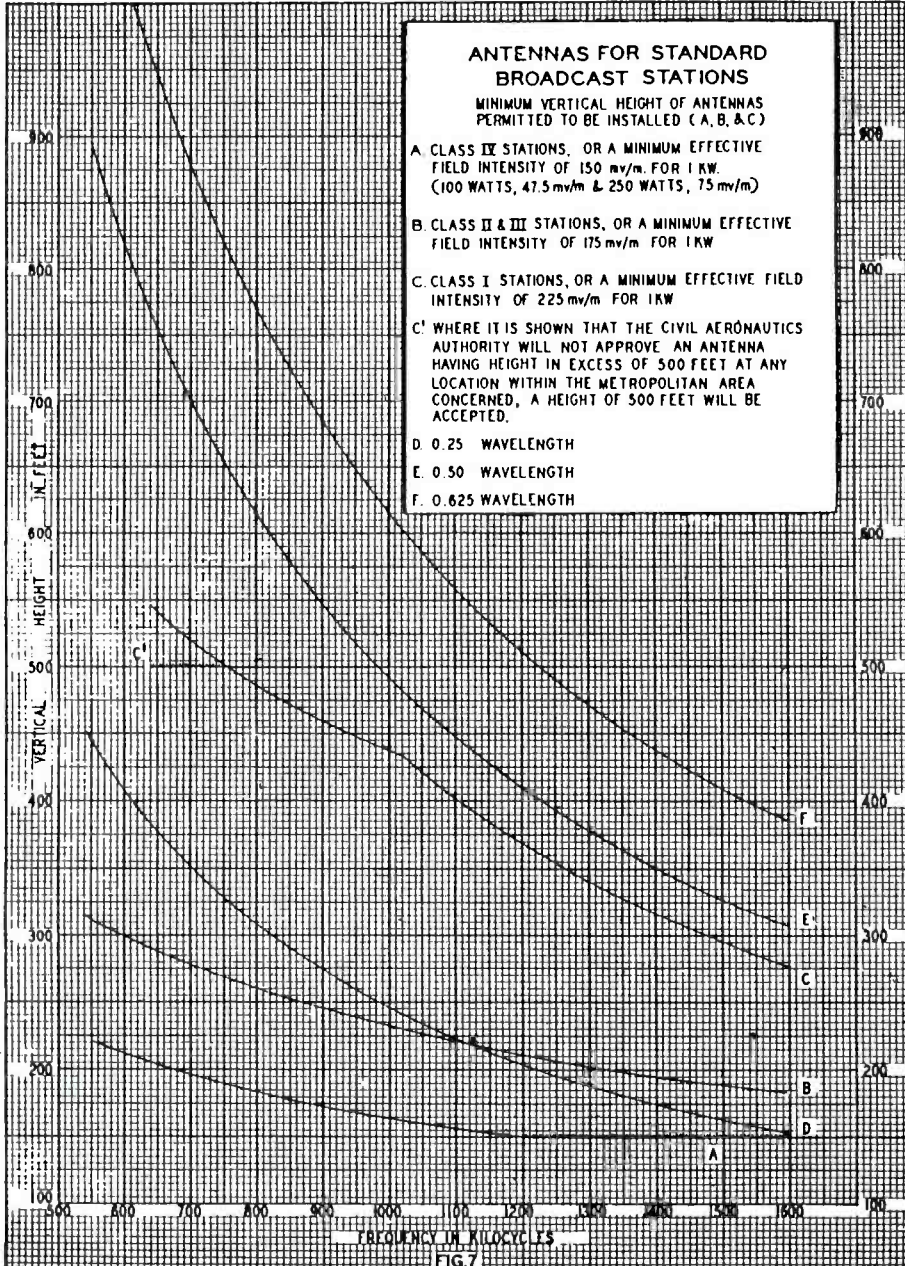


FIG. 7

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

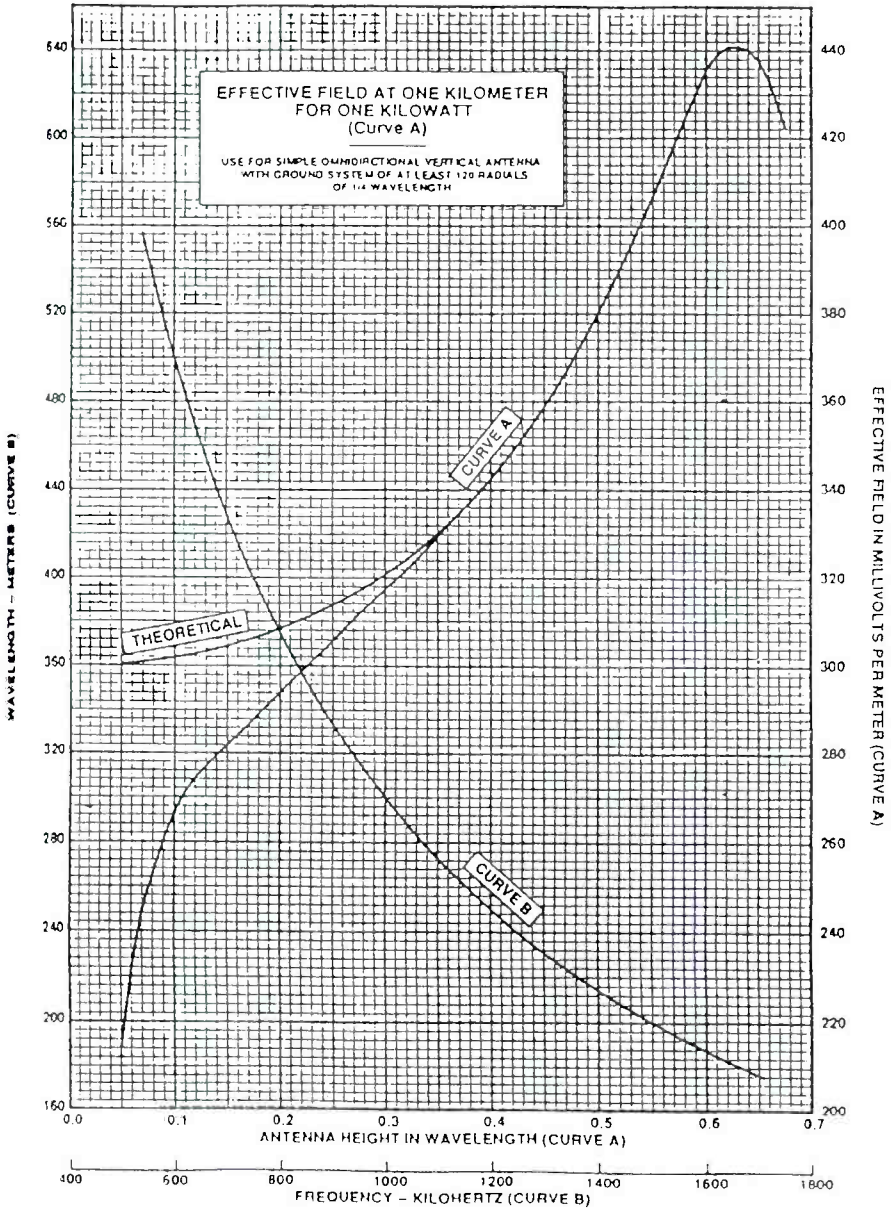


Figure 8

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

**PERMISSIBLE DAYTIME RADIATION
FOR CLASS II STATIONS**

500 KC

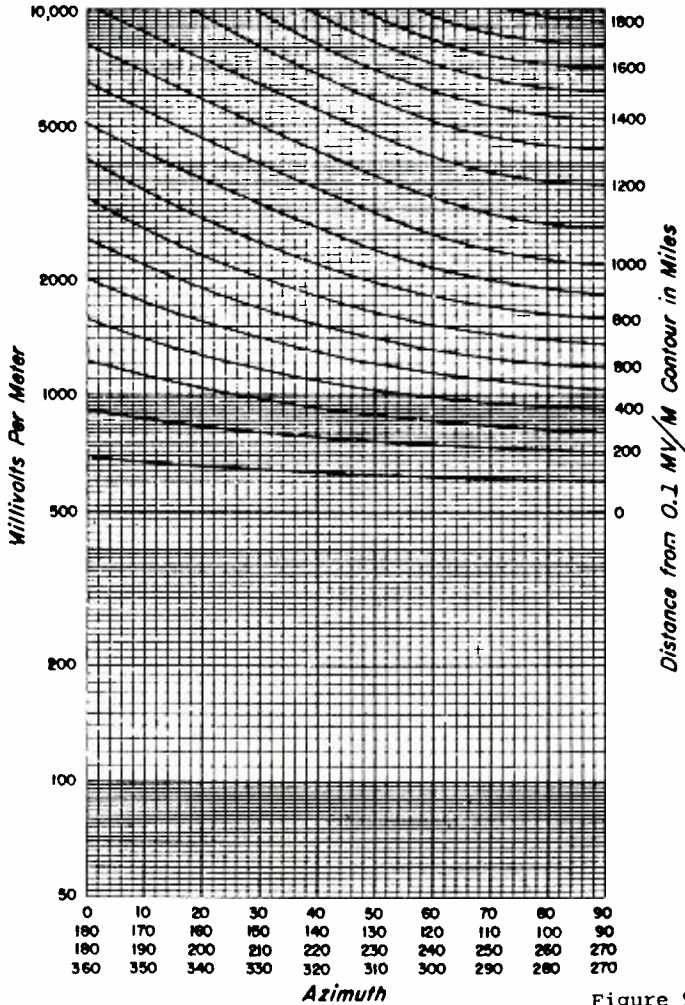


Figure 9

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

PERMISSIBLE DAYTIME RADIATION FOR CLASS II STATIONS

1000 KC

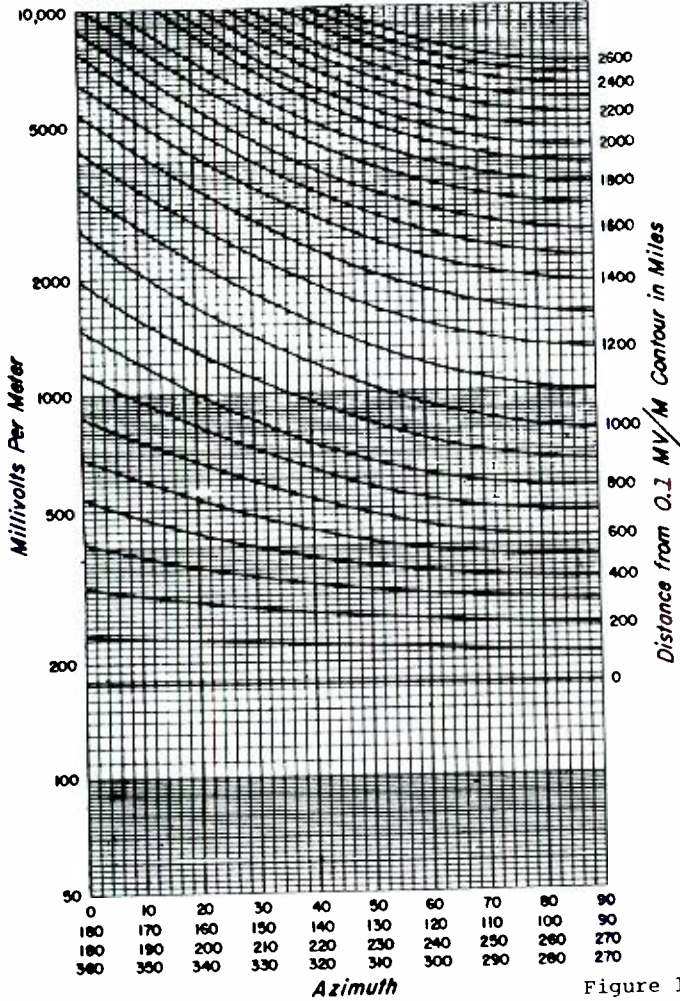


Figure 10

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

**PERMISSIBLE DAYTIME RADIATION
FOR CLASS II STATIONS**

1600 KC

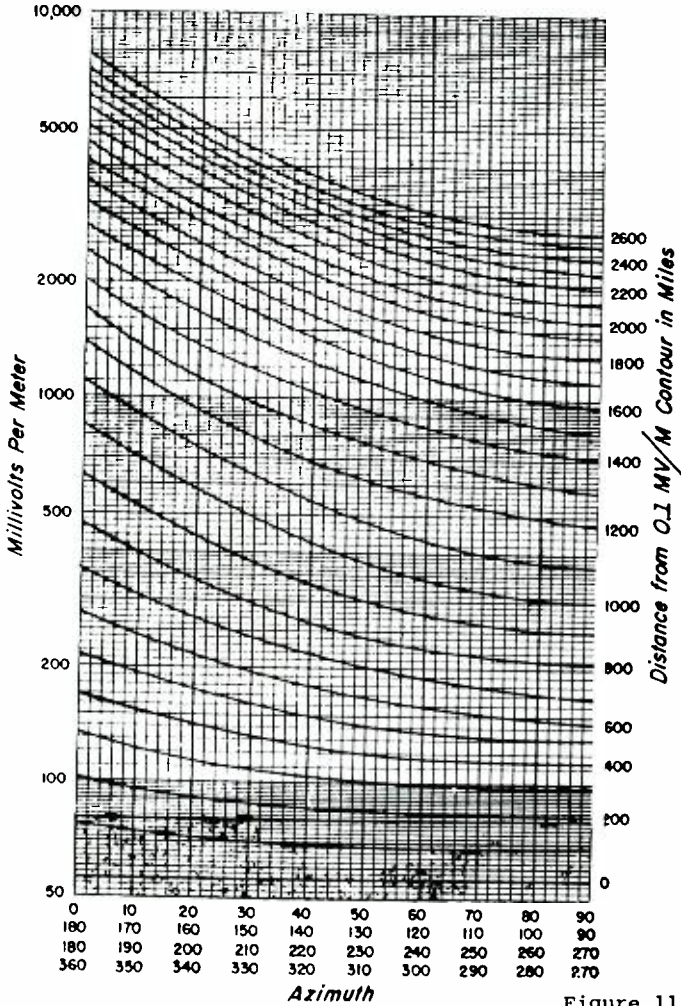
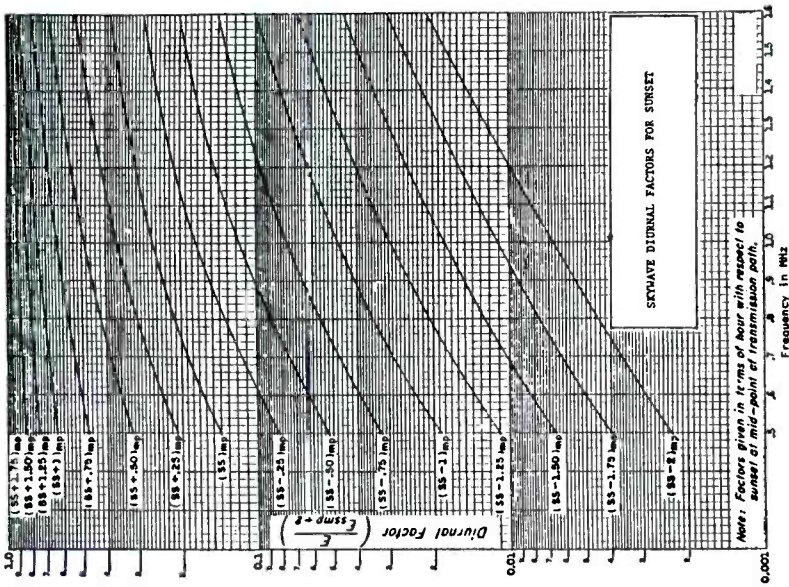
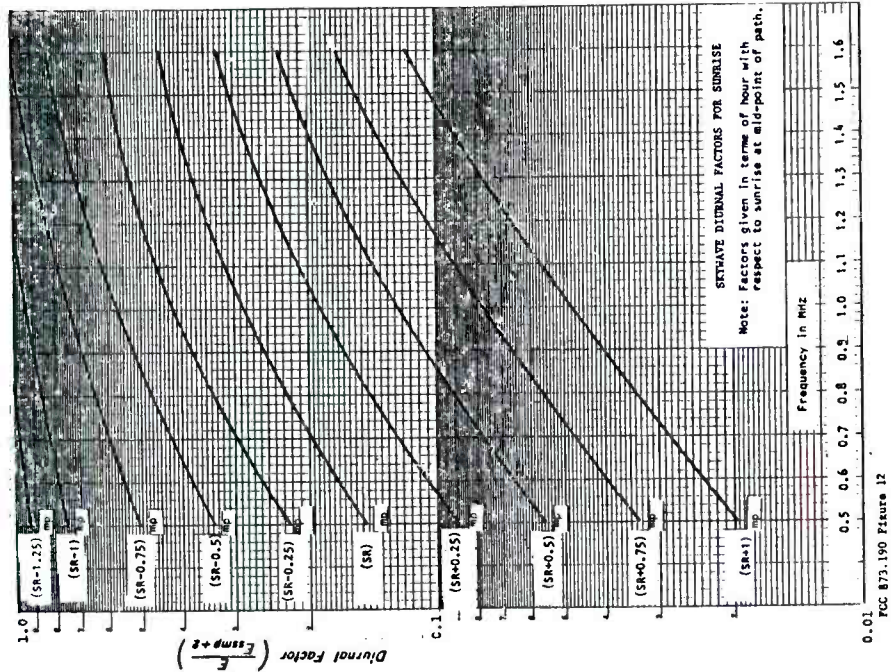


Figure 11

[Next Page is No. 162A]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73



[Next Page is No. 163]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

SUBPART B

FM BROADCAST STATIONS

73.201 NUMERICAL DESIGNATION OF FM BROADCAST CHANNELS.

The FM broadcast band consists of that portion of the radio frequency spectrum between 88 MHz and 108 MHz. It is divided into 100 channels of 200 kHz each. For convenience, the frequencies available for FM broadcasting (including those assigned to noncommercial educational broadcasting) are given numerical designations which are shown in the table below: (Edit. Amdt. 4/2/87)

Frequency (Mc/s)	Channel No.	Frequency (Mc/s)	Channel No.
88.1	201	94.7	234
88.3	202	94.9	235
88.5	203	95.1	236
88.7	204	95.3	237
88.9	205	95.5	238
89.1	206	95.7	239
89.3	207	95.9	240
89.5	208	96.1	241
89.7	209	96.3	242
89.9	210	96.5	243
90.1	211	96.7	244
90.3	212	96.9	245
90.5	213	97.1	246
90.7	214	97.3	247
90.9	215	97.5	248
91.1	216	97.7	249
91.3	217	97.9	250
91.5	218	98.1	251
91.7	219	98.3	252
91.9	220	98.5	253
92.1	221	98.7	254
92.3	222	98.9	255
92.5	223	99.1	256
92.7	224	99.3	257
92.9	225	99.5	258
93.1	226	99.7	259
93.3	227	99.9	260
93.5	228	100.1	261
93.7	229	100.3	262
93.9	230	100.5	263
94.1	231	100.7	264
94.3	232	100.9	265
94.5	233	101.1	266

73.201(Cont'd)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

Frequency (Mc/s)	Channel No.
101.3	267
101.5	268
101.7	269
101.9	270
102.1	271
102.3	272
102.5	273
102.7	274
102.9	275
103.1	276
103.3	277
103.5	278
103.7	279
103.9	280
104.1	281
104.3	282
104.5	283
104.7	284
104.9	285
105.1	286
105.3	287
105.5	288
105.7	289
105.9	290
106.1	291
106.3	292
106.5	293
106.7	294
106.9	295
107.1	296
107.3	297
107.5	298
107.7	299
107.9	300

NOTE: *The frequency 108.0 MHz may be assigned to VOR test stations subject to the condition that interference is not caused to the reception of FM broadcasting stations, present or future.*

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.202 TABLE OF ALLOTMENTS.

(a) GENERAL.

The following Table of Allotments contains the channels (other than noncommercial educational Channels 201-220) designated for use in communities in the United States, its territories, and possessions. All listed channels are for Class B stations in Zones I and I-A and for Class C stations in Zone II unless otherwise specifically designated. (Revised 83-259, 3/1/84)

- (1) Channels designated with an asterisk ~~only~~ may be used only by noncommercial educational broadcast stations. ~~Noncommercial educational use in various communities in Arizona, California, New Mexico, and Texas are listed in § 73.504. The rules governing the use of noncommercial educational those channels in other communities are contained in § 73.501.~~
- (2) Each channel listed in the Table of Allotments reflects the class of station that is authorized, or has an application filed, to use it based on the minimum and maximum facility requirements for each class contained in § 73.211. (Added 83-259, 3/1/84)

NOTE:

The provisions of this paragraph [(a)(2) of this section] become effective [3 years from the effective date of the Report and Order in BC Docket 80-90.]. (March 1, 1987) (Added 83-259, 3/1/84)

[Next Page is No. 166.1]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(b) TABLE OF ALLOTMENTS

ALABAMA		ALABAMA (Cont'd)	
	Channel No.		Channel No.
Abbeville	232C3	Evergreen	227C1
Addison	289A	Fairhope	221C3
Albertville	286C	Fayette	251C1
Alexander City	291C1	Florence	241A,297C
Andalusia	251C1,279A	Fort Mitchell	252A
Anniston	263C	Fort Rucker	263A
Arab	224A	Fruithurst	274A
Ashland	238A	Gadsden	279C
Athens	282C	Geneva	229C1
Atmore	281C,290A	Georgiana	299C2
Attalla	275A	Glencoe	226A
Auburn	249A	³ Greensboro	256A
Bay Minette	288A	Greenville	232A,240A
Birmingham	229C,233C,243C, 258C,284C,295C, 299C	¹ Grove Hill	291C3
Brewton	292A	Guntersville	240C3
Brundidge	234A	Hamilton	221A
Butler	228C2	Hartselle	291C3
Camden	272A	Hayleyville	224A
Carrollton	231C	Headland	287C3
Centre	290A	Holly Pond	238A
¹ Chatom	- - - -	Homewood	247A
Chickasaw	252C2	Huntsville	236C2,256C
Citronelle	271C3	Jackson	233C2
Clanton	249A	Jasper	273C
Columbia	221A	Linden	253C1,275C2
Columbiana	268A	Lisman	299A
Cordova	237A	Luverne	282C1
Cullman	221A,266C	Meridianville	231A
Dadeville	247A	Millbrook	246A
Daphne	293C2	Mobile	225C,235C, 241C,248C, 260C
Decatur	245C,271C1	Monroeville	257C2
Demopolis	293C3	⁴ Montgomery	222C,241A, 255C1,270C, 277C, 255C2
Dora	223A	Mouton	276A
Dothan	238C,259C1, 267A,273C3	Muscle Shoals	288A
East Brewton	239A	Northport	264A
Elba	266A	Oneonta	249A
Enterprise	245C,294C	Opelika	244A
² Eufaula	224C2,250A	Opp	272A
Eutaw	282A	Orange Beach	289A
Eva	260A		

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

ALABAMA (Cont'd)

	Channel No.
Orrville	247A
Oxford	250A
Ozark	280C3,285A
Phenix City	261A
Pine Hill	244C3
Prattville	236C2
Reform	269A
Roanoke	272C3
Rogersville	230A
Russellville	249A
'Saint Florian	274A
Scottsboro	252A
Selma	261C2,265C2, 287C2
Sheffield	292C3
Smiths	267A
Stevenson	269A
Stonewall	295A
Sylacauga	252A
Talladega	224A,248A
Tallassee	260A
Thomaston	249A
Thomasville	238C3
Trinity	223A
Troy	289C
Trussville	290A
Tuscaloosa	225C1,239C1, 288A
Tuscumbia	262C
Tuskegee	240A
Union Springs	231A
Uniontown	298A
Valley	237A
Vernon	293A
Warrior	254C2,254C1
Wetumpka	250A
Winfield	290A
York	285C2

ALASKA

	Channel No.
Anchorage	225C,247C1, 251C1,255C1, 263C2,267C2, 271C3,276C1, 281C1,287C1, 293C,298C1 229C2
Bethel	261A,252C3
College	280A
Cordova	265A
Delta Junction	228A
Dillingham	256A
Fairbanks	240C3,251C1, 266C2,273C, 284C3,245C3
Haines	272A
Homer	278C
Houston	221A,232A,242A
Juneau	264A,274A,275A, 282A,286A, 292C3
Kasilof	295A
Kenai	261C3
Ketchikan	260A,294A,290C3
Kodiak	261A,266A
Kotzebue	280A
Naknek	265A
Nome	241A, 262A
North Pole	262C1
Palmer	238C1
Petersburg	265A
Seward	290A
Sitka	276C2,284A
Soldotna	243C3,269A, 269C3
Valdez	227A
Wasilla	259C1
Wrangell	269A
Yakutat	280A

[Next Page is No. 167]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

ARIZONA

ARIZONA (Cont'd)

	Channel No.
Ajo	252A
Junction	296C2
Arizona City	293A
Bagdad	276C3
Benson	249A
Bisbee	222A
Buckeye	295C2
Bullhead City	274C
Casa Grande	288A
Chandler	300C
Chinle	297C2
Chino Valley	280C3
Claypool	288A
Clifton	271C1
Colorado City	296C3
Comobabi	*275A
Cottonwood	240C1,289C3
Douglas	237A,243A
Duncan	264A
Eager	223C1
Flagstaff	225C,230C,248C, 261C2
Florence	276C1
Gilbert	280C2
Glendale	222C,278C
Globe	47C3,262C
Green Valley	221C2,246A
Holbrook	221C1
Kearny	286A
Kachina Village	286C2
Kingman	234C,260C2,290C1
Lake Havasu City	244C2,266C3, 283C2,224C2
Marana	252A
Mesa	227C,284C
Miami	252A
Nogales	252A,256A
Oracle	292A

	Channel No.
Oraibi	252A
Oro Valley	248A
Page	227C2
Paradise Valley	290C3
Parker	257C2, 230C3
¹ Payson	266C1,282C,257A
Phoenix	233C,238C,245C, 254C,260C,268C, 273C
Pinetop	294C1
Prescott	256C,271C
Prescott Valley	252C2,294C2
Quartzsite	232A
² Safford	231C1
St. Johns	239C
San Carlos	- - -
Scottsdale	264C
Sedona	275C,298C
Seligman	277A
Show Low	228C3,243C
Sierra Vista	265A,269A
Springerville	269A
Sun City	292C2
Tempe	250C
Thatcher	256C
Tuba City	250C1
Tucson	225C,229C,235C, 241C,258C,281A, 298C
Tusayan	221A
Wellton	283C2
Wickenburg	231C3, 287C2,
Willcox	223C3, 285C3
Williams	244A
Window Rock	241C1,274C3
Winslow	236C
³ Yarnell	258A
Yuma	226C,236C,265A

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

ARKANSAS

ARKANSAS (Cont'd)

Channel No.	Channel No.
Arkadelphia 265A	Glenwood 283A
Ashdown 221A,280A	Gosnell 230A,297A
Atkins 257A	Greenwood 292C3,268A
Augusta 249C2	Gould 273A
Bald Knob 296C3	Gurdon 224A
Barling 233C2	Hamburg 258A
Batesville 226C, 258A	Hampton 293C3
Beebe 268A	Hardy 284A
Bella Vista 293C2	Harrisburg 240C3
Benton 294C2	Harrison 241C2,244A,
Bentonville 239A,252C1	275C1
Blytheville 242C1	Hatfield 281C2
Booneville 284C2	Heber Springs 264C2
¹ Brinkley 272C2	Helena 233C3,276C3
Bryville 2963C	Hope 269C2,285A
Cabot 273A	Horsehoe Bend 293A
² Calico Rock 246A	Hot Springs 244A,248C1,
Camden 246C2,283A	290C1
Cherokee Village 252A	Hot Springs
Clarendon *281A	Village 225A
Clarksville 295A	Hoxie 287A
Clinton 221C3	Humnoke 269A
Conway 224A,286C1	Huntsville 258C3
Corning 228A	Jacksonville 262C1
Crossett 285A	Jonesboro 263C2,270C,
Danville 288A	300C1
Dardanelle 272C3	Lake City 285C3
DeQueen 226C2	Lakeview 228C3
DeWitt 244A	Lake Village 240A,278A
Dermott 276A,289A	Little Rock 231C,239C,253C,
Dumas 295C3	258A,279C
Earle 280C3	Lonoke 292C2
East Camden 237C1	Lowell 270C2
El Dorado 227C3,240A,	
254C3,268A	
277C1	
England 243A	
Eudora 268A	
Eureka Springs 265A	
Fairfield Bay 291C2	
Fayetteville 221C3,280C1,300C	
Fordyce 272A	
Forrest City 228C3	
Fort Smith 229C,256C,260C,	
264C2	

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

ARKANSAS (Cont'd)

	Channel No.
Magnolia	300C1
Malvern	227A,268A
Mammoth	
Spring	236C1
Marianna	287A
Marion	296A
Marked Tree	229A
Marshall	282C
Maumelle	235C,245A
Mena	242C1,271C3
Monticello	228A,260C3
Morrilton	269A
Mountain	250C2,228C2,
Home	298C1
Mountain	
Pine	270A
Mountain View	277C
Murfreesboro	258C3
Nashville	288A,245A
Newport	244C2
North Crossett	274C3
North Little	
Rock	266A
Ola	267A
Osceola	
Ozark	244
Paragould	296A
Paris	237C2
Piggott	288A
Pine Bluff	222C1,257A,
	267C3,267A
Pocahontas	281A
Prairie Grove	235C2
Rogers	232C2
Russellville	265A
'Saint Paul	287A
Salem	265A
Searcy	260C2
Sheridan	275C2
Sherwood	271A

ARKANSAS (Cont'd)

	Channel No.
Siloam Springs	*266A,289C
Springdale	285A
Stamps	282A,263C2
Stuttgart	288A
Texarkana	284A,292C2,
	296A
Trumann	294A
Van Buren	274C3
Viola	232C3
Waldo	*256A
Waldron	276C3
Walnut Ridge	292A
Warren	288A
West Helena	233C3,285A
White Hall	283A
Wilson	234A
Wrightsville	299C2
Wynne	223C2
Yellville	269A

CALIFORNIA

Alameda	224A
Alturas	233C1,297C
	293C3
Anaheim	240A
Anderson	234C2
Apple Valley	272A
Arcadia	296A
Arcata	226C
Arnold	255A,291B1
	240A
Arvin	223A
Atascadero	283B
Atwater	223A
Auberry	286B1

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

CALIFORNIA (Cont'd)

CALIFORNIA(Cont'd)

	Channel No.
Auburn	266B
Avalon	224A
Avenal	289A
Baker	235B1,268B
Bakersfield	221A,231B,243B, 257B1,268B, 296A,300B
Barstow	232B1,240A
Beaumont	265A
Berkeley	231B,275B
Big Bear City	227A
Big Bear Lake	269A
Big Pine	227B
Bishop	264B
¹ Blue Lake	292A
Blythe	262B
² Boonville	241A
Brawley	233B,241B
Burney	291C
Calexico	249A
California City	295A
Calipatria	265A
Calistoga	265A
Camarillo	212B,240B1
Cambria	235B1,278A
Carlsbad	239B
Carmel	238A,269A
Carnelian Bay	279C1
Carpinteria	269A
Cartago	275A
Cathedral City	253B
Central Valley	257C2
Chester	255C,259A
Chico	230B1,236B,224A
China Lake	274A
Chowchilla	227A
Clovis	221B1
Coachella	229B
Coalinga	261B
³ Coarsegold	233A
Columbia	240A,255A

	Channel No.
Colusa	276A,298B
Compton	272A
Copperopolis	288A
Corcoran	272B1
Corning	264C1
Crescent City	232C3
Crescent North	250C2
Davis	282A
Delano	253B,287B
Desert Center	288A
Dinuba	255B
Dunnigan	288B1
Dunsmuir	261C3
Earlimart	228A
East Los Angeles	250B
East Porterville	263B1
El Cajon	227B
El Centro	298B
Ellwood	233B
El Rio	279A
Escondido	221A
Esparto	250A
Essex	255B,280B
Eureka	222C1,242C,268C 288C1
Fallbrook	296A
Farmington	232A
Felton	229A
Ferndale	257A
Firebaugh	234A
Ford City	271A
Fort Bragg	237B1,228B,253B1 237B1
Fortuna	262C1
Fowler	244B1
Freedom	298A
Fremont	285A
Fresno	229B,239B,250B, 257A,266B,270B, 274B,290B

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

CALIFORNIA (Cont'd)

	Channel No.
Garberville	284C,279C1
Garden Grove	232A
George	264A
Gilroy	233B
Glendale	270B
Goleta	292A
Gonzales	282A
¹ Grass Valley	232B1,257A,277A
Green Acres	291B1
Greenfield	258B,300B
Gridley	268A
Grover City	297B
Gualala	263B1
Guadalupe	288A
Hanford	233A,279B,298B
Healdsburg	225B,240A,244A
Hemet	289A
Hollister	228A
Holtville	261A
Hydesville	231C1
Idylwild	267A
Imperial	257A
Independence	223B
Indio	224A,272A
Inglewood	280A
Jackson	259A
Johannesburg	280B1
Joshua Tree	221A
Julian	261A
Kerman	232A, 237A
Kernville	273A

CALIFORNIA(Cont'd)

	Channel No.
King City	230B1,271B
Kings Beach	299C3
Kingsburg	292A
La Quinta	244A
Lake Arrowhead	280A
Lake Isabella	283A
Lakeport	252A,258B
Lancaster	292A
Lenwood	283A,297A,245A
Lindsay	277B1
Livermore	269A
Livingston	240A
Lodi	249A
Lompoc	262B1,281B1,294B1 285A
Long Beach	288A
Los Altos	249A
Los Angeles	222B,226B,230B, 234B,238B,242B, 246B,254B,258B, 262B,266B,274B, 278B,282B,286B, 290B,298B
Los Banos	284B,295A
Los Gatos	237A
Los Molinos	269A
Los Osos-	
Baywood Park	267B
Lucerne Valley	293A
Ludlow	289A

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

CALIFORNIA (Cont'd)

CALIFORNIA (Cont'd)

	Channel No.		Channel No.
¹ Madera	296B1		
Mammoth Lakes	293B1		
Manteca	244A	Pacific Grove	286B1
Marina	224B1	Palm Dessert	276A
Mariposa	242B,280A	Palm Springs	263B1,284B,291B
Marysville	260B	Paradise	244B1,278B1
McCloud	238C3	Pasadena	294B
McFarland	275B1	Paso Robles	223B
Mecca	249A	Patterson	226B,246A
Mendocino	224A	Pismo Beach	237A
² Mendota	263A	Placerville	221A
Merced	231A,248B,292A,299A	Point Arena	272B1
Middletown	254A	Porterville	259B
Modesto	230A,272A,277B,281B	³ Quincy	*240A,
Mojave	249A		262A
Monte Rio	249B1	Rancho Mirage	258A
Montecito	225A	Red Bluff	239B,274C2
Monterey	245B	Redding	247C,251C,282C
Morgan Hill	241A	Redlands	244A
Morro Bay	259A	Redondo Beach	228A
Mount Bullion	260B	Ridgecrest	224B1,285B1
Mount Shasta	300A	⁴ Rio Del	297C2
Mountain Pass	258B	Riverside	224B1,248B,256B
Needles	250C1,296B	Rohnert Park	285A
Newberry Springs	279A	Rosamond	228A,288A
Newport Beach	276A	Roseville	229B1
Oakdale	236B	Sacramento	223B,241B,245B,
Oakhurst	276B1		253B,263B,278A,
Oceanside	271B		286B,293B,300B
Oildale	237B1	Salinas	250A,264B,273B,
Ojai	288A		278A
Ontario	228A		
Orange Cove	262A		
Orcutt	239B1		
Orland	294B		
Ormond-by-the-Sea	239C3		
Oroville	249B1		
¹ Oxnard	252B1,275A,284B		

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

CALIFORNIA (Cont'd)

	Channel No.
San Bernardino	236B,260B
San Clemente	300B
San Diego	231B,235B,243B, 247B,251B,264B, 268B,275B,279B, 287B,293B
San Fernando	232A
San Francisco	227B,235B,239B, 243B,247B,251B, 255B,259B,267B, 271B,279B,283B, 287B,291B,295B
San Jacinto	241A
San Joaquin	288A
San Jose	222B,253B,262B, 293B
San Luis Obispo	227B,241B,246B1, 251B
San Mateo	299B
San Rafael	264A
Santa Ana	244A,292A
Santa Barbara	229B,248B,260B, 277B,299B1
Santa Clara	289B
Santa Cruz	256B
Santa Margarita	291B1
Santa Maria	256B,273B
Santa Paula	244A
Santa Rosa	261A,269B1
Santa Ynez	290A
Seaside	280A,296A
Sebastopol	229A
Shaffer	249A,282A
Shasta Lake City	257C3
Shingle Springs	270B
Shingletown	287C2,241A
Soledad	287A,292A
Solvang	244A
Sonora	224A
South Lake Tahoe	230B1,275C
South Oroville	285A

CALIFORNIA (Cont'd)

	Channel No.
St. Helena	257A
Stockton	257A,261A,297B
Sun City	225A
Susanville	227C,242C3 222C2
Sutter Creek	298A
Taft	280A
Tahoe City	243C1
Tehachapi	276A,261A
Temecula	233A,277A
Thousand Oaks	224A
Thousand Palms	234A
Tipton	285A
Tracy	265A
Trenton	269C3
Truckee	268A
Tulelake	243C
Tulare	235B,294B
Turlock	252A
Twin Harte	228A
Twentynine Palms	242A,299B1
Ukiah	233B,277B,290B 246A
Vacaville	237B1
Ventura	236B,264B,296A
Victorville	276A
Visalia	255B,241A,246B
Walnut Creek	221A
Weaverville	276C2,266A
Weed	272C1
West Covina	252A
'Westley	238A
Williams	256A
Willows	292A
Windon	254A
Windsor	281A
Woodlake	281B
Woodland	281B
Yermo	251B,287A
Yreka	280C1
Yuba City	280B1
Yucca Valley	295B

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

COLORADO

COLORADO (Cont'd)

Channel No.	Channel No.
Alamosa	47,228A
Aspen	249C3,296C3
Avon	276C2
Basalt	291A
Boulder	247C
Breckenridge	272A
Brush	292A,296C1
Buena Vista	281C3
Burlington	281C1,257C1
¹ Calhan	284A
¹ Canon City	283A
Castle Rock	221C2
Colorado Springs	225C,232C,236C, 251C,270C
Cortez	250C,254C
Craig	229C1,273C
Delta	236C,277C2
Denver	239C,253C,258C, 262C,266C,278C, 286C,290C,294C
Dolores	227C2
Durango	259C2,263C1,267C1, 287A
Eagle	268C
² Eckley	237C1
Estes Park	271A
Evergreen	243C
Fort Collins	227C,300C1
Fort Morgan	269A
Fountain	241C3
Frisco	230A
Fruita	260C
Glenwood Springs	224C,256C3 238A
Grand Junction	222C,226C,282C, 300C
Greeley	223C1,241C1
Gunnison	252C3,272A
Hayden	240C3,297A
Holyoke	222C2
Idalia	231A
Julesburg	243C1
Kremmling	292C3
Lafayette	234C
La Junta	221C3,293C1
Lakewood	298C
Lamar	227C1,289C1
Las Animas	297A
Leadville	228A
Limon	229A,276C1
Longmont	282C1
Loveland	273C2
Manitou Springs	274C
Meeker	251C
Monte Vista	237A
Montrose	231C,241C
Oak Creek	281C3
³ Otis	252C1
Ouray	289C3
Pagosa Springs	292C3
¹ Pueblo	245C,255C, 260C,264C, 280C1,296C2, 300C1
¹ Pueblo West	280C1
Rifle	287C
Rocky Ford	238C1
Salida	222C3
Security	288C3
Silverton	279C2,297C1
Snowmass Village	280A
Steamboat Springs	245A,255A
Sterling	284C1,288A
Strasburg	272A,*249C3,272A
Telluride	285C3
Trinidad	223C1
Vail	284C1
Walsenburg	272C3
Wellington	232C3
Widefield	292C2
Windsor	256C
³ Wray	- - -
Yuma	265C3

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

CONNECTICUT

	Channel No.
Bridgeport	260B
Brookfield	236B
Danbury	252A
East Lyme	254A
Enfield	250A
Groton	288A
Hamden	267B
Hartford	229B,243B,275B, 290B,295B
Hartford- Meriden	239B
Ledyard	293A
Litchfield	247A
Middletown	285A
New Britain	263B
New Haven	232A,256B
New London	265A
Norwalk	240A
Norwich	249A
Pawcatuck	299A
Salisbury	251A
Sharon	277A
Stamford	244A
Stonington	272A
Waterbury	223B,281B
Westport	300B
Willimantic	252A

DELAWARE

	Channel No.
Bethany Beach	240B1,278A
Dover	234B
Fenwick Island	221A
¹ Georgetown	- - - -
Laurel	237A
Lewes	290A
Milford	249A,267A
¹ Millsboro	228B
Ocean View	269A
Rehoboth Beach	224A
Seaford	252A
Selbyville	250A
Smyrna	225A
Wilmington	229B,258B

DISTRICT OF COLUMBIA

	Channel No.
Washington	230B,242B,246B, 254B,258B,262B, 266B,278B,297B

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

FLORIDA

FLORIDA (Cont'd)

	Channel No.		Channel No.
Alachua	223A	Englewood	290A
Apalachicola	263C3,288A	Fernandina	
Apopka	237A	Beach	287A
¹ Arcadia	----	Five Points	293A
Atlantic Beach	283C	Fort Lauderdale	264C,278C,290C, 294C
Avon Park	256C3	¹ Fort Meade	252C2
Baldwin	289A	Fort Myers	237C1,245C,270C
Belle Glade	228A	Fort Myers	
Beverly Hills	292C3	Beach	257C2
Big Pine Key	284C	Fort Myers Villas	292A
Blountstown	272A	Fort Pierce	238C1,245C
Boca Raton	260C	Fort Walton	
Bonifay	249C1	Beach	243C1,258C2
Bonita Springs	241C	Gainesville	265A,279C1, 287A
Bradenton	278C	Gifford	234A
Callahan	227C2	Goulds	252C
Callaway	278C1	Graceville	269A
Cape Coral	280C1,292A	Green Cove	
Carrabelle	293C1	Springs	224A
Cedar Key	274C3	Gretna	227A
Century	286C3	Gulf Breeze	291A
Charlotte		Havana	285C2
Harbor	225C1	Hialeah	222C2
Chiefland	300A	High Springs	285A
Clearwater	239C1,250C	Hobe Sound	288C2
Clewiston	292A	Holiday	246C2
Cocoa	257C2	Holly Hill	277A
Cocoa Beach	266C,281C	Holmes Beach	254C3
Coral Cove	300C2	Homosassa	
Coral Gables	286C	Springs	237A
Corning	264C1	Inglis	282A
Crawfordville	231A	Immokalee	221A
Crestview	284C1	Indian River	
Cross City	295C1	Shores	246C3
Crystal City	253C	Indiantown	276C2
Dade City	241A	Jacksonville	236C,241C,245C, 256C,275C,297C1
Daytona Beach	233C,270C1	Jensen Beach	272C3
Defuniak		Jupiter	258A
Springs	276C2		
Deland	290C		
Destin	221C3		
Dunnellon	272C2		
Edgewater	226C3		

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

FLORIDA (Cont'd)		FLORIDA (Cont'd)	
	Channel No.		Channel No.
Key Colony Beach	280C2	Ormond-By-The-Sea	239C3
Key Largo	292C2	Palatka	260C
Key West	223C1,228C2, 254C1,258C1, 296A,300C1	Palm Beach	250C
LaBelle	223A	Panama City	223C1,253C,290C2, 300C1
LaCrosse	258A	Panama City Beach	261C3,286C2
Lafayette	260C2	Parker	233C
Lake City	232C2	Pensacola	231C,254C2, 264C,268C, 297C
Lakeland	231C	Perry	221A
Lehigh Aes	296C2	Plantation Key	262C1,276C3
Live Oak	251C2,291A	Pompano Beach	274C
MacClenny	221C3	Ponte Vedra Beach	227A
Madison	274A	Port Charlotte	261C2
Marathon	232C2,249C1 288C2	Port St. Joe	228C2
Marco	255A,266C1	Port St. Lucie	267A
Marianna	231A,265A	Punta Rassa	249A
Mary Esther	288C3	Quincy	268C1
¹ Melbourne	236A,292C3, 296C1	Riviera Beach	232C3
Mexico Beach	257C2	Rock Harbor	271C2
Miami	226C,243C, 247C,256C1, 268C1,298C	Rockledge	274C2
Miami Beach	230C,235C	Safety Harbor	223C2
Micanopy	247C2	San Carlos Park	253A
Midway	264C3	Santa Rosa Beach	271C3
Milton	274C	Sarasota	273C,282A, 293C2
Miramar Beach	292A	² Satellite Beach	253A
Monticello	289C3	Sebring	289C3
Mount Dora	299C	Silver Springs	238A
Murdock	255A	Solana	285A
Naples	228A,233C, 276C3		
Naples Park	288C2		
New Port	288C1		
Richey			
Newberry	263C3		
Niceville	262A		
Nocatee	287A		
North Miami Beach	239C2		
Ocala	224A,229C		
Orlando	222C,243C,255C2, 262C,286C		

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

GEORGIA (Cont'd)

GEORGIA (Cont'd)

	Channel No.		Channel No.
Eatonton	249C3	Manchester	227C
Eastman	248A	Marietta	268C
Elberton	221A,286A	Martinez	230C3,299C2
Ellijay	228A	McRae	274A
Evans	222A	Metter	279A
Fayetteville	248C3	Midway	252C1
Fitzgerald	245A	Milan	285C2
Folkston	223A	Milledgeville	264A,272A
Forsyth	261A	Millen	235C3
Fort Valley	250C3,292C2	Montezuma	223A
Gainesville	246C	Moultrie	230C1
Gainsville	294C	Mount Vernon	269A
Gibson	232A	Nashville	237C2
Glennville	292A	Ocilla	249A,253A
Gordon	296A	Omega	298A
Greensboro	280A	Peachtree	
Gray	243A	City	244A
Greenville	239C3	Pearson	270A
Greenwood	278C3	Pelham	222A
Harlem	236C3	Perry	265A
Hawkinsville	280A	Quitman	287A
Hazlehurst	229C2	Reidsville	281A
Helen	286A	Richmond Hill	287C3
Hinesville	222C2,284C3	Ringgold	229A,270A
Hogansville	251C3	Rockmart	296C2
Homerville	254A	Rome	2249C3,272A
Irwinton	279A	Rossville	288A
Jackson	221A	Roswell	298A
Jeffersonville	229C2	Royston	279C3
Jesup	288C3	Sandersville	260A
Kingsland	292A	Savannah	226C1,231C, 238C1,243C, 247C,271C
LaFayette	- - -		
La Grange	281C1	Smithville	293A
Lakeland	290C3	Smyrna	231C
Leesburg	278C3	Soperton	291A
Louisville	221A	Sparta	274A
Lumpkin	257C2		
Lyons	265A		
Mableton	273A		
Macon	222A,256C1, 287C1,300C1		

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

GEORGIA (Cont'd)

	Channel No.
Springfield	280A
St. Marys	227C2
St. Simons Island	224A
Statenville	248A
Statesboro	261C2,275C3
Swainsboro	251A,263A
Sylvania	293A
Sylvester	271A,291A
Talking Rock	261A
Tennille	270A
Thomaston	266A
Thomasville	296C1
Thomson	269A
Tifton	223C3,262C
Toccoa	291C
Trenton	274A
Trion	239A
Unadilla	260A
¹ Valdosta	225C1,239C2,244C2, 266C1,300C3
Vidalia	249A
Warner Robins	273A, 269A
Washington	261A
Warrenton	226A
Waycross	249A,273C1,277C
Waynesboro	265A,296C3
Westpoint	265A
Wrens	245C3
Wrightsville	298A

HAWAII

	Channel No.
Aiea	300C
² Haiku	293C
Hali'imaile	288A
Hilo	224A,234C1, 240C2,246C2, 250C1,262C1
Honolulu	226C,230C1,234C1, 238C,248C1,253C1, 253C1,258C1,262C1, 286C,290C
Kahal'u'u	291C
Kahului	260C1
Kailua	242C
Kailua-Kona	230C
Kaneohe	282C
³ Kaunakakai	272C
Kawaihae	295A
Keaau	286C2
Kealahou	268C1
Kekaha	277C1
Lahaina	228C,266C1
Lanai City	284C2
Lihue	228C1,245C1 251C
Makawao	232A
Paauilo	279C
Pearl City	270C
Poipu	240A
Princeville	260C1
Pukalani	252C2
Volcano	299C3
Wailuku	236C
Waimea	256C
Waipahu	222C,274C

[197-39;7/7/97][297-13;7/14/97][3N/A;7/31/97]
 [497-14;7/7/97][597-62;8/4/97][6N/A;12/27/96]
 [797-28;6/30/97][897-37;7/14/97][997-33;7/14/97]
 [1097-38;8/4/97]

73.202(b) IDAHO

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

IDAHO

IDAHO (Cont'd)

	Channel No.
American Falls	281C1
Blackfoot Falls	247C,268C
Boise	222C,250C,282C, 286C
Bonnors Ferry	221A
Burley	260C
Caldwell	231C,277C,296C
Chubbuck	253C2
Coeur D'Alene	272A,276C2
¹ Driggs	271A
Eagle	300C
Emmett	270C
² Franklin	249A
Fruitland	258C1
Garden City	290C
³ Gooding	264C
Grangeville	224C3
Hayden	233C
⁴ Idaho Falls	241C,256C1,277C1, 288C1,296A
Jerome	275C1
Ketchum	284C
Lewiston	243C1,268C1, 286A,295C
McCall	252A,266C1,294A
Moscow	291C1
Mountain Home	256C1
Nampa	235C,245C
New Plymouth	226C
⁵ Orofino	237C3,253A
Payette	262C1
Pocatello	229C,235C,273C
Preston	244C1

	Channel No.
Rexburg	232C3,251C1, 263C1
Rupert	223C
Salmon	224A
Sandpoint	237C1,273A
Shelley	300C
Soda Springs	261A
⁶ Sun Valley	237C1,279C 298C
⁷ Twin Falls	239C1,243C1,252C1
^{8,9} Victor	222A,282A
Wallace	248C,264C
¹⁰ Weston	240A

ILLINOIS

Aledo	272A
Alton	262B
Anna	243C2
Arcola	300A
Arlington Heights	224A
Atlanta	242A
Augusta	253A
Aurora	240A,300B
Ava	280A
Bartonville	260A
Beardstown	232A
Belvidere	285A
Benton	292B1
Bethalto	238A
Bloomington	268B
Breese	248A
Bushnell	284A

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

ILLINOIS (Cont'd)

ILLINOIS (Cont'd)

	Channel No.		Channel No.
Canton	266A,300B1	East St. Louis	266C2
Carbondale	268B	Effingham	239B,249A
Carlyle	244A	Eldorado	272A
Carmi	247B	Elgin	232A
Carrier Mills	283A	Elmwood	247B1
Cartersville	236A	Elmwood Park	290B
Carthage	221B1,230A	Eureka	253A
Casey	282B1	Evanston	286B
Centralia	237A	Fairbury	299B1
Champaign	233B,248B,262B1	Fairfield	290A
Charleston	221A	Farmer City	252A
Chicago	226B,230B,234B, 238B,242B,246B, 250B,254B,258B, 262B,266B,278B, 282B,298B	Farmington	243A
Chillicothe	232A	Flora	280A
Christopher	278A	Freeport	221A,253B
Clinton	240A	Galatia	255A
Coal City	264A	Galena	298A
¹ Colchester	281A,244A	Galesburg	224A,235B
Columbia	285C3	Galva	273A
Crest Hill	252A	² Geneseo	- - -
Crete	272A	Gibson City	292A
Danville	235A,256B,271B	Golconda	232A
Decatur	226A,236B,275B	Granite City	293C1
DeKalb	223B,235A	Greenville	269A
Des Plaines	294B	Harrisburg	260B
Dixon	269A	Havana	257A
Duquoin	240A	Henry	263A
Dundee	280A	Herrin	224B1
Dwight	255A	Highland Park	276A
Earlville	275A	Hillsboro	259B
East Moline	267B	Hoopeston	265A
		Jacksonville	263B
		Jerseyville	281B
		Joliet	228A,244A

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

ILLINOIS (Cont'd)

	Channel No.
Kankakee	224A,236A,260B
Kewanee	230A
Knoxville	287A
La Salle	257B1
Lansing	292A
Lawrenceville	276A
Lena	271A
Leroy	281B
¹ Lexington	258A
Lincoln	230B1
Litchfield	291B
Loves Park	244A
Lutesville	281A
Lynnville	296A
² Macomb	261A,274B1, 240A
Mahomet	290A
Marion	297B
Maroa	297A
Marseilles	243A
Marshall	290A
Mattoon	245B,267A
Mendota	261A
Metropolis	252C2,288A
Moline	245B
Monmouth	249A
Monticello	288A
Morris	276A,284B
Morrison	274A
Morton	272A
Mount Carmel	235B
Mount Morris	239A
Mount Olive	287A
Mount Sterling	294B1
Mount Vernon	231B,271B1
Mount Zion	257A

ILLINOIS (Cont'd)

	Channel No.
Murphysboro	286B1
Nashville	284A
Neoga	255A
Newton	278B1
Normal	244A
Oak Park	274B
Ogelsby	271A
Olney	225B
Oregon	291A
Ottawa	237A
Pana	265A
Paris	253B
Paxton	285A
Pekin	238B1,285A
Peoria	222A,227B, 289B, 295B
Peru	265A
Petersburg	249A
Pinckneyville	282A
Pittsfield	248B1
Plano	296A
Polo	299A
Pontiac	229B1
Princeton	251A
Quincy	258B,280A, 286B
Ramsey	227A
Rantoul	237A,241A
Robinson	269A
Rochelle	272A
Rock Island	255B
Rockford	248B,265A
Rockton	276A
Rushville	223A

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

ILLINOIS (Cont'd)

	Channel No.
Salem	261A
Savanna	262B1
Seneca	239A
Shelbyville	286B1
Skokie	270B
South	
Jacksonville	288A
Spring Valley	277A
Springfield	254B,270B,279B, 283B
Sterling	232A
Streator	249A,291A
Sullivan	294B1
¹ Taylorville	224B1,232A 247A
Tower Hill	252A
Tuscola	228A
Urbana	223B1,296A
Vandalia	296A
Viriden	244A
Virginia	267A
Watseka	231B
Waukegan	272A
West Frankfort	249A
Wilmington	288A
Winnebago	237A
Woodlawn	295A
Woodstock	288A
Zion	245B

INDIANA

Alexandria	224A
Anderson	250B,254A
Angola	262A
Attica	239A
Auburn	272A

INDIANA (Cont'd)

	Channel No.
Aurora	257A
Austin	242A, 224A
Batesville	280A
Battleground	254A
Bedford	288A
Berne	224A
Bicknell	289A
Bloomfield	266A
Bloomington	222B,224A, 279B
Bluffton	261A
Booneville	296A
Brazil	249A
Bremen	245A
Brookston	237A
Brownsburg	270A
Cannelton	275C3
Chandler	228A
Charlestown	282A
Churubusco	242B1
Clarksville	226A
Clinton	230A
Columbia City	292A
Columbus	268B,285A
Connersville	262B
Corydon	243A,299B
Covington	276A
Crawfordsville	280A,292A
Crown Point	280A
Danville	296A
Decatur	286B1
Delphi	275A
Earl Park	251B1
Edinburgh	275A
Elkhart	264B,284B
Ellettsville	286A
Elwood	269A
Evansville	281B,287B,298A

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

INDIANA (Cont'd)		INDIANA (Cont'd)	
	Channel No.		Channel No.
1Farmersburg	242A	Loogootee	231A
Ferdinand	253A	Lowell	296A
Fort Branch	268A	Madison	244A
Fort Wayne	222A,236B,247B, 269A,280A	Marion	295B
Frankfort	259B	Martinsville	272A
Franklin	240A	Michigan City	240A
French Lick	261A	Mitchell	273A
Goshen	249A	Monticello	299A
Greencastle	232A	Mount Vernon	294A
Greenfield	258B	Muncie	221A,281B, 285A
Greensburg	297B	Nappanee	239A
Greenwood	294A	Nashville	236A
Hammond	222B	New Albany	234A
Hardinsburg	245A	New Carlisle	272A
Hartford City	228A	New Castle	273B
Huntingburg	265B1	New Haven	300A
Huntington	275A	Newburgh	291A
Indianapolis	226B,234B, 238B,242A, 277B,283B,289B, 300B	Noblesville	230A
Jasper	284B	North Vernon	291B
Jeffersonville	239B	Paoli	237A
Kendallville	227B	Peru	252A
Kentland	269A	Petersburg	272A
Knox	257A	Plainfield	252A
Kokomo	223A,263B	Plymouth	232B1
La Porte	244A	Portland	265A
Lafayette	228A,243B,287B	Princeton	251B,263A
Lagrange	288A	Roann	270A
Lebanon	265A	Rensselaer	249A
Ligonier	274A	Richmond	241B,267B
Linton	227B1	Roanoke	231A
Logansport	272A	Rochester	221A
		Rockville	285A
		Royal Center	279A
		Rushville	232A

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

INDIANA (Cont'd)

	Channel No.
Salem	255B,250A
Santa Claus	277A
Scottsburg	287A
Seelyville	240A
Seymour	229B
Shelbyville	246B
South Bend	225B,268B,276A, 280A,292A
South Whitley	266A
Spencer	224A
Sullivan	237A
Tell City	289A
Terre Haute	260B,264B,274B 298B
Valparaiso	288A
Van Buren	257A
Veedersburg	225A
Versailles	276A
Vevay	240A
Vincennes	221A,244A
Wabash	240A,290A
Walton	229A
Warsaw	297B
Washington	293B,300A
West Lafayette	*267A,294A
West Terre Haute	288A
Winamac	261A
Winchester	252A

IOWA

Albia	244C3
Algona	224C2
Ames	281C,296A
¹ Anamosa	239A
Ankeny	223C2,292
¹ Asbury	277C3,238A
Atlantic	239C3
Audubon	243C1
Belle Plaine	238A

IOWA (Cont'd)

	Channel No.
Bettendorf	228A
Bloomfield	292C3
Boone	252C2,257A
Britt	258A
Brooklyn	256C2
Burlington	228A,276C3, 297C1
Carroll	229C1
Castana	298A
Cedar Falls	253C3
Cedar Rapids	243C1,251C1, 275C1,283C1
Centerville	254C1
Chariton	287C2
Charles City	240A
Cherokee	221A,272A
Clarinda	257C2
Clarion	245C1
Clear Lake	276A
Clinton	241C1,234A
Council Bluffs	253C
Cresco	272A
Creston	267C3
Davenport	279C,293C1
Decorah	263C2,284A
Denison	296A
Des Moines	227C,235C, 247C1,262C, 273C,279C 298C1
² DeWitt	285C3
Dubuque	225C1,272A, 287C2
Dyersville	257A
Eddyville	268C2
Eldon	282C3
Eldora	258A
Emmetsburg	261A
Epworth	247C3
Estherville	240C3

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

IOWA (Cont'd)

	Channel No.
Fairfield	240A
Forest City	297C2
Fort Dodge	221A,233C1
Fort Madison	269C2
Garnavillo	261A
Glenwood	279C
Grinnell	294C2
Grundy	
Center	249C3
Harlan	287C3
Humboldt	249A
Hudson	241A
Ida Grove	225C3
Independence	237A
Iowa City	231C1,264C1
Iowa Falls	237A
Jefferson	255C3
Keokuk	242C2,237C1
Knoxville	221C3
Lamoni	250C3
Le Mars	258C1
Madrid	241A
Manchester	234C3
Maquoketa	236A
Marshalltown	266C1
Mason City	230C1,250A,291C1
Mt Pleasant	288C3
Muscatine	259C1,226A
New Hampton	236A
¹ New London	247A
New Sharon	260C3
Newton	240A
Northwood	274A
Oelwein	222C

IOWA (Cont'd)

	Channel No.
Onawa	272C1
Osage	254A
Osceola	295C2
Oskaloosa	285C2
Ottumwa	224A,249C3
Parkersubrg	255A
² Patterson	290A
Pella	277C1
Perry	269A
Red Oak	237C3
Rock Valley	295C3
Sac City	286A
Sageville	291A
Sheldon	287C2
Sibley	262A
Sioux Center	230C2
Sioux City	238C1,250C1, 277C1
Sioux Rapids	275C2
Spencer	285C3,299C1
Spirit Lake	280C2
St. Ansgar	238A
Storm Lake	268C1
Stuart	300C3
Twin Lakes	290C3
Vinton	296A
Washington	291A
Waterloo	270C,289C,300C
Waukon	278C2
Waverly	257A
Webster City	239C3
Winterset	258A

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

KANSAS

KANSAS (Cont'd)

Channel No.	Channel No.
Abilene 253C1	
Andover 230C3	
Arkansas City 293C,273A	² Hutchinson 246C3,264A,240A
Augusta 283C2	271C,275C
Baxter Springs 296A	Independence 269A
Belle Plaine 224C3	Ingalls 242C1,290A
Belleville 221C3	Iola 257A
Beloit 288C2	Junction City 233C1
Burlington 237A	Kansas City 231C,251C
Caney 266A	Kingman 262C2,232C2
Cawker City 242C3	Kiowa 252C1
Chanute 228A	Larned 244A,295C1
Cimarron 280C3	Lawrence 290C1
Clay Center 265A	Leavenworth 255C
Clearwater 254C2	Leoti 260C1
Coffeyville 255A	³ Liberal 268C1,268C2,
Colby 250C1,262C1	274C1,298C1,
Columbus 287C3	238C3,269C3
¹ Concordia 235C1	⁴ Lindsborg
Copeland 251C1,256C1	Lyon 291C1
Dearing 251A	Manhattan 284C2
Derby 242C2	Marysville 275C3
Dodge City 230C1,238C1	McPherson 244A
Downs 231C2	Medicine Lodge 269C2
El Dorado 256C1	Minneapolis 224C2
Emporia 258A,269A,285A	Ness City 285A
Eureka 228A	Newton 222C1
Fort Scott 280A,284C3	North Fort Riley 273C1
Fredonia 281A	Norton 294A
Galena 282A	Oberlin 266C1
Garden City 247C1	Ogden 278C2
Girard 256A	Olathe 222C3
Goodland 273C1,299C1	Osage City 225C2
Great Bend 282C1,300C1	Ottawa 239C1
Hays 258C1,277C1	Parsons 228A
Haysville 287C	Phillipsburg 223C1,237A
Herington 289C3	Pittsburg 245C1
Hiawatha 228C2	Plainville 244A
Hill City 270C	Pratt 226C
Hoisington 264C1	Riley 242C3
Horton 229C3	Russell 240A
Hugoton 294C2	Salina 229C1,260C1,
Humboldt 232C3	285A
	Scott City 223C1
	Seneca 221A
	Silver Lake 223A

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

KANSAS (Cont'd)

	Channel No.
Sterling	234C3
St. Marys	275C2
Topeka	247C,257A, 262C,295C,299C
Wamego	237A
Wellington	228A
Wichita	236C1,250C, 267C,279C1, 297C1
Winfield	240C3,300C2

KENTUCKY

Albany	292A
Allen	261A
Ashland	229C1
Barbourville	241C3
Bardstown	244A
Beattyville	271A
Beaver Dam	264A
Benton	256A
Berea	294A
Bowling Green	227C3,244C3
Brandenburg	228A
¹ Brodhead	270A
Burkesville	300A
Burnside	230C2
Calvert	239A
Campbellsville	281C3
Campton	279A
Carlisle	221C3
Carrollton	237A
Catlettsburg	224A
Cave City	279C3
Central City	270C1
Clinton	271C3
Columbia	228A
Corbin	258C2,297C2
Cumberland	274A
Cynthiana	272A

KENTUCKY (Cont'd)

	Channel No.
Danville	296A
Drakesboro	280A
Edmonton	256A
Elizabethtown	252C3
Elkhorn City	276A
Eminence	289A
Erlanger	265A
Falmouth	298A
Flemingsburg	236A
Fort Campbell	300C1
Fort Knox	288A
Frankfort	279A,285A
² Fredonia	221A
Fulton	257A
Garrison	252A
Georgetown	277A
Glasgow	236C,287C3
Grayson	272A
Greensburg	276A
Greenup	289C3
Greenville	288A
Hardinsburg	232C2,282A
Harlan	286A
Harold	285A
Harrodsburg	257A
Hartford	292A
Hawesville	246A
Hazard	266C,284A
Henderson	258C,276A
Hindman	296A
Hodgenville	292A
Hopkinsville	254C1,262C, 248A
Horse Cave	294A
Hyden	250C3
Irvine	264C3
Jackson	293A
Jamestown	285A
Jeffersontown	267A
Jenkins	232C2

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

KENTUCKY (Cont'd)		KENTUCKY (Cont'd)	
	Channel No.		Channel No.
Lancaster	286A	Pineville	292A
Lawrenceburg	271A	Prestonsburg	238C,288A
Lebanon	265C3	Princeton	285A
Leitchfield	285A	Providence	249A
Lexington	225C1,233C1, 251C1	Radcliff	278C3
Lexington-		Reidland	294A
Fayette	283C2	Richmond	268C3
Liberty	254C3	Russell Spring	224A
London	222C2,280A	Russellville	266C1
Louisa	222A	St. Matthews	276A
Louisville	248C1,259B, 263C2,272A, 280A,295B	Salyersville	247A
Madisonville	230C2,295A	Scottsville	257A
Manchester	276A,289A	Shelbyville	269A
Mannsville	260C3	Shepherdsville	286A
Marion	274A	Smiths Grove	296C2
Mayfield	234C2	Somerset	246C2,272A
Maysville	240A	Springfield	274A
McKee	300A	Stamping Grd	241A
Middlesboro	224A	Stanford	242C3
Midway	300A	Stanton	285A
Monticello	226A,269A	Tompkinsville	221A,274A
Morehead	291C3,242A	Valley Station	290A
Morganfield	237A	Vanceburg	285A
Mount Sterling	288A	Vancleve	260A
Mount Vernon	275A	Versailles	292A
Munfordville	272A	Vine Grove	268A
Murray	279C1	Virgie	298A
Nicholasville	273A	West Liberty	275A
Oak Grove	293C3	Westwood	259A
Owensboro	223C,241C	Whitesburg	280A
Owingsville	299A	Whitley City	252A
Paducah	227C1,245C1	Wickliffe	240A
Paintsville	234C3,255C1	Williamsburg	282A
Paris	245C2	Williamstown	293A
Philpot	234A	'Wilmore	237A
Pikeville	226C2	Winchester	261C2

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

LOUISIANA

LOUISIANA(Cont'd)

Channel No.	Channel No.
Abbeville 285C3	Gibsland 283A
Alexandria 226C,230A,245C, 262C,295A	Grand Isle 283A
Amite 243A	Hammond 277C,296A
Arcadia 223A	Haughton 279A
Atlanta 293A	Haynesville 288A
Baker 297A	Homer 272A,294C2
Ball 288A	Houma 281C,298C1
Basile 271C2	Jackson 283A
Bastrop 230C3,232A,261C2, 247A	Jena 274A
Baton Rouge 251C,264C,268C, 273C	Jennings 225C2
Bayou Vista 237C3	Jonesboro 285C3
Belle Chasse 275C3	Jonesville 286A
Benton 221A	Kaplan 247C2
Berwick 290A	Kenner 287C1
Blanchard 271C3	Kentwood 231C1
Boyce 272C3	Lacombe 234A
Breaux Bridge 243C3	Lafayette 233C,238C2, 260C
Brusly 241C2	Lake Arthur 298C2
Bunkie 282C3	Lake Charles 241C,258C1, 279C1,287C2
Clayton 257A	Lake Providence 224A
Clinton 224C2	LaPlace 222C
Columbia 276C3	Larose 262C2
Coushatta 235C3	Leesville 224A,289C3
Crowley 275C	Mamou 266C3
Delhi 228A	Mansfield 224A,284C3
De Ridder 221C3,269A	Mansura 240A
Donaldsonville 285A	Many 296C3
Dubach 249C3	Marksville 249A
Erath 300C1	Maurice 292A
Eunice 288A	Minden 239C2
Farmerville 224A	Monroe 270C,281C, 287C2,291C
Ferriday 296C3	Moreauville 221A
Folsom 285A	Morgan City 244A
¹ Franklin 288A,295C3	Natchitoches 264A,247C3
Franklinton 255A	New Iberia 229C1,256C
Galliano 232C1	

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

LOUISIANA (Cont'd)

MAINE

	Channel No.		Channel No.
New Orleans	227C,239C,246C, 253C1,258C,266C, 270C	Auburn	260B
New Roads	293C2	Augusta	222B,267B
North Fort Polk	294A	Bangor	225B,246B
Oak Grove	244C3	Bar Harbor	256B,299B1
Oakdale	254C2	Bath	290B
Opelousas	290A,296A	Belfast	284B
Port Sulphur	294C1	Biddeford	232B1
Rayne	294A	Boothbay Harbor	244B1
Rayville	222C2	Brewer	262B,293C
Reserve	235A	Brunswick	255B
Richwood	265A	Calais	224A
Ruston	258A,298C	Camden	273B
Shreveport	229C,233C,243C1, 259C2,266C,275C2	Caribou	249C3
South Fort Polk	239A	Dennysville	275C1
'Springhill	225C2	Dexter	271A
Sulphur	267C3	Dover-Foxcroft	276A
Tallulah	283C3	Ellsworth	233B,239B
Thibodaux	293C3	Fairfield	227A
Tioga	278C2	Farmington	257A
Troy	264A	Fort Kent	293C3
Varnado	225A	Gardiner	282B
Vidalia	284A	Houlton	261C3
Ville Platte	223A	Howland	280C
Vivian	287A	Islesboro	288B1
Washington	284C3	Kennebunk	257A
West Monroe	252C2	Kennebunkport	284A
Winnfield	221A	Kittery	287A
Winnsboro	240A	Lewiston	230B
		Lincoln	289C2,298B
		Machias	237A,266B
		Madawaska	272A

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

MAINE (Cont'd)

	Channel No.
Madison	248A
Mexico	264A
Milbridge	229B
Millinocket	235C2
North Windham	294A
Norway	224A
Old Town	297C2
Pittsfield	258A
Portland	226B,250B,270B, 275C
¹ Presque Isle	241C,245C,270C2, 291C
Rockland	277B
Rumford	242C
Saco	240A
Sanford	221A
Scarborough	292A
Searsport	269A
Skowhegan	286C,300C3
Thomaston	295B
Topsham	238A
Van Buren	251A
Waterville	253C2
Westbrook	265B1
Winslow	237A
Winter Harbor	249B
York Center	237A

MARYLAND

Annapolis	256B,300B
Baltimore	222B,226B,236B, 250B,270B,274B, 282B,293B
Berlin	280A
Bethesda	234B,272A
California	275A
Braddock Heights	280A

MARYLAND (Cont'd)

	Channel No.
² Cambridge	292A
Catonsville	289B
Crisfield	245A
Cumberland	275B,291B
Easton	244B1
Federalsburg	296A
Frederick	260B
Frostburg	*246A,287B
Glen Burnie	240A
Grasonville	276A
Hagerstown	284B,295B
Halfway	244A
Havre De Grace	279B
Hurlock	263A
Lexington Park	249A
Mechanicsville	252A
Middletown	276A
Morningside	238B
Mountain Lake Park	283A
Oakland	222A
Ocean City	260B,295A
Ocean City-Salisbury	284B
Ocean Pines	246A
Pocomoke City	223A,293A
Prince Frederick	224A
Princess Anne	273B
Salisbury	248A,255A, 288A
³ Snow Hill	266A
² St. Michaels	232A
Waldorf	281B
Westernport	266A
Westminster	264B
Williamsport	240A

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

MASSACHUSETTS

	Channel No.
Amherst	265A
Athol	260A
Barnstable	260B
Boston	233B,245B,253B, 264B,277B,281B, 294B
Brockton	249A
Brookline	225B
Cambridge	237A
Chatham	298B
Fairhaven	296A
Falmouth	270B
Fitchburg	283B
Framingham	289B
Gloucester	285A
Great Barrington	286A
Greenfield	237A,252A
Harwichport	228A
Haverhill	223B
Hyannis	275A,291B
Lawrence	229B
Lowell	258B
Lynn	269A
Mashpee	266A
Marshfield	240A
Medford	300B
Nantucket	242B
New Bedford	247B,251B
North Adams	261A
Northampton	257A,292A
Orange	247A
Orleans	284B
Pittsfield	240A,269A,288A

MASSACHUSETTS (Cont'd)

	Channel No.
Plymouth	256B
Provincetown	*221A
Southbridge	261A
South Yarmouth	280A
Springfield	226B,234B,271B
Taunton	227B
Tisbury	224A
Truro	272A
Turners Falls	230A
Waltham	273B
Webster	255A
West Yarmouth	235B
Winchendon	249A
Worcester	241B,297B

MICHIGAN

Adrian	237A,280A
Albion	244A
Allegan	222A
Alma	285A
Alpena	257C2,299C1
Ann Arbor	275B,296A
Ashley	223A
Atlanta	223C
Bad Axe	271C2
¹ Baraga	282C1
Battle Creek	237A,277B
Bay City	241C,273B
Bear Lake	261A

[¹97-42;9/9/97][²95-7;10/28/96]
[³97-25;9/8/97] [⁴N/A;9/9/97]
[⁵96-239;6/30/97] [⁶N/A;3/25/97]

73.202(b) MICHIGAN (Cont'd)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

MICHIGAN (Cont'd)

MICHIGAN (Cont'd)

	Channel No.
Beaverton	249A
Benton Harbor	235A,260B
Big Rapids	248A,265A
Birmingham	234B
Boyne City	228C2
Bridgman	248A
Bronson	*234A
Brooklyn	287A
Buchanan	256A
Cadillac	225C,244C3,296A
Caro	221A
Carrollton	263A
¹ Charlevoix	290C1,300A
Charlotte	224A
Cheboygan	286C1
Clare	237A
Coldwater	253B
² Coleman	269A
Crystal Falls	264C1
Dearborn	262B
Detroit	222B,226B,238B, 242B,246B,250B, 254B,258B,266B, 270B,278B,282B, 286B,290B,294B, 298B
Dewitt	243A
Dowagiac	221A
East Jordan	265A
East Lansing	235B,256B
Escanaba	284C,246C
Essexville	247A
³ Fife Lake	240A
Flint	224A,236B,288B1 288B1288A,300B
Frankenmuth	229A

	Channel No.
Frankfort	257C2
Fremont	261A
Gaylord	237A,294C1
Gladstone	288C1
Gladwin	276A
⁴ Glen Arbor	238C2,251A,251C2
Grand Haven	221A
Grand Rapids	229B,239B,245B, 250B,255A,267B, 275B,281B,289B
Grayling	262C1
Greenville	297B
Gulliver	234C1
Hancock	228A,254C2
Harbor Beach	279C2
Harbor Springs	280C2
⁵ Harrietta	229A
Harrison	221A
⁶ Hart	287C1
Hartford	279A
Hastings	261A
Hillman	235C2
Hillsdale	221A
Holland	233B,241B
Honor	264A
Houghton	242C1,249A, 272C2
Houghton Lake	253C1
Howell	228A
Hudson	273A
Iron Mountain	226C1,268C1 294A
Iron River	256C2
Ironwood	259C1,295C1

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

MICHIGAN (Cont'd)

MICHIGAN (Cont'd)

	Channel No.
Ishpeming	222C,298C1
Jackson	231B,291B
Kalamazoo	271B,293B,299B
Kalkaska	248C2
Kingsford	251A
Lake City	*285A,292A
L'Anse	291C2
Lansing	248B,264B,269A
Lapeer	276A
Leland	232C2
Lexington	245A
Ludington	292A
Mackinaw City	233C3
Manistee	249A,268A
Manistique	260A
Marlette	223A
Marquette	231A,239C1,277C1
Marshall	285A
Menominee	279C3
Midland	227C2,259C
Mio	230C2
Monroe	252A
Mount Clemens	274B
Mount Pleasant	233C1,282A
Munising	252C2
Muskegon	269B1,283B,295B, 300B1
Muskegon Heights	269B1
Negaunee	258A,270A
¹ Newaygo	223A
Newberry	229A,250C2
Niles	237A
North Muskegon	252A
Norway	232C3
Ontonagon	266C2
Oscoda	239C2,264C3
Otsego	265A
Owosso	280A
Pentwater	231C3,276A

	Channel No.
Petoskey	242C1,255C1
Pickford	288A
Pinconning	265A
Port Huron	272A,296A
Portage	243A
Reed City	247A
Rogers City	244C2,260C2
Roscommon	266A
Saginaw	251B,283A,292A, 296A
Sandusky	249A
Saugatuck	224A
Sault Ste. Marie	252A,258C2, 267C1
Scottville	235C3
Sebewaing	- - - -
South Haven	252A
Spring Arbor	295A
St. Ignace	275C
St. Johns	221A
St. Joseph	296A
Standish	245A
Stephenson	292C2
Sturgis	257A
Tawas City	277A,284C2, 291C3
Three Rivers	240A
Traverse City	270C1,278C, 283A,298C2
Tuscola	268A
Vassar	255A
² Walhalla	255A
Walker	263A
West Branch	288A
Whitehall	272C3,273A
Zeeland	257A

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

MINNESOTA

MINNESOTA(Cont'd)

	Channel No.		Channel No.
Ada	292A	East Grand Forks	282C1
Aitkin	232C3	Eden Prairie	289A
Albany	288A	Ely	233A
Albert Lea	235A,241A	Eveleth	250C1
Alexandria	222C3,257A,264C1	Fairmont	293C1
Anoka	300C	Fairbault	240A,298C2
Atwater	231A	Fergus Falls	243C1,277C1
Austin	260C1	Forest Lake	240A
Babbitt	294C2	Fosston	296C2
Bagley	244C3	Glencoe	242C2
Belview	290A	Glenwood	296A
Bemidji	266C1,279C1, 238C1	Golden Valley	223C
Benson	228A	Grand Marais	237C1
Blackduck	252C2	Grand Rapids	245C1
Blue Earth	283C3	Granite Falls	230A
Blooming Prairie	265C1	Hermantown	221C3
Brainerd	278C3,294C1, 298C1	Hibbing	230C1,292C3
Breckenridge	286C1	¹ Hutchinson	296A
Breezy Point	282C2	International Falls	258C1,281C3
Browerville	259A	Jackson	289C3
Buhl	*223C2	La Crescent	274C3
Caledonia	234A	Lake City	273C3,235A
Cambridge	287C3	³ Lake Crystal	239A
Coleraine	241C1	Lakeville	286A
Cloquet	263C1,243C3	Little Falls	221A,231A
Cold Spring	235C2	² Luverne	266C1
Crookston	241C1,246C1	² Madison	221C3
Crosby	268C3	Mahnomen	268C3
¹ Dassal	295C3	Mankato	244C3,256C1, 278C1
Deer River	288C1	Marshall	259C1,298C3
Detroit Lakes	236C1,272C2	Minneapolis	229C,246C,253C, 258C,262C1,275C
Duluth	225C1,235C1, 239C1,*247C2, 255C2,269C2, 277C1,286C1	Mantevideo	288A
		Moorhead	254C1,260C1
		Mora	238C3
		Morris	239C1
		Moose Lake	296C3

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

MINNESOTA (Cont'd)

MINNESOTA (Cont'd)

	Channel No.		Channel No.
Nashwauk	275C3	Sauk Centre	232A
New Prague	238A	Sauk Rapids	269C2
New Ulm	226C1	Slayton	291C2
Nisswa	227C	Sleepy Eye	297A
North Mankato	244A	Spring Grove	252C2
Olivia	261C3,261A	Spring Valley	282C3
Ortonville	268C,292A	Springfield	234C2
Osakis	280A	St. Charles	299A
Owatonna	285A	St. Cloud	251C,284C
Park Rapids	223A,248C1	St. James	263C2,268C3
Paynesville	255C2	St. Joseph	225C3
Pelican Rapids	281C2	St. Louis Park	281C
Pequot Lakes	261A,274C2	St. Paul	233C,237A,271C
Perbam	258A	St. Peter	288A
Pine City	265A	Staples	234C2
Pipestone	254C	Stewartville	287C2
Pillager	240A	Thief River	257C3,262C1,
Preston	276C3	Falls	274C1
Princeton	291C2	Tracy	286C2
Proctor	299C2	Two Harbors	282C2
Red Lake	231C1	'Vernon Center	231A
Red Wing	290C3	Virginia	260C1
Redwood Falls	249C1	Wadena	290C1
Richfield	267C	Waite Park	279C3
Rochester	*225A243C2, 248C,269C2, 295C	Walker	256C1,270A
Roseau	271C2,278C2	Warroad	223C1
Rushford	257C3	Waseca	221C3
		Willmar	273C1,237C2
		Windom	232A
		Winona	237C3,266C3
		Worthington	228A,236C1
Sartell	244C2		

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

MISSISSIPPI

MISSISSIPPI (Cont'd)

	Channel No.		Channel No.
Aberdeen	287C2		280C2
Ackerman	300C	Como	278C
Amory	237A	Corinth	232A,237A
Artesia	260C2	Crenshaw	295A
Baldwin	223A	De Kalb	289C2
Batesville	263C2	D'Iberville	250C2
Bay Saint Louis	300C	Drew	237A
Bay Springs	228A,232C2	Durant	266A
¹ Belzoni	292A,296C3	Ellisville	273C2
Biloxi	229C	Eupora	241C2
Booneville	257A	Fayette	249A
Brandon	249A	Flora	247C3
Brookhaven	221A	Forest	223C
Brooksville	255C3	Fulton	270C2
Bruce	233A	Gluckstadt	269C2
Bude	282C3	Greenville	250C2,264C1, 284C2
Byhalia	235A	¹ Greenwood	230C3,256C, 282C2
Calhoun City	272A	³ Grenada	222A,261C2
Canton	269A		267A
² Carthage	252C3	Gulfport	244A,272C3, 296A
Centreville	285A	Hattiesburg	221A,226A, 279C,283C1
Charleston	239A	Hazlehurst	225A
Clarksdale	221A,268C3, 243A,293C2	Heidelberg	257C2
Cleveland	225C2,280C3, 252C3	Holly Springs	224A
Clinton	228A	Houston	227C
Coldwater	237A	⁴ Indianola	245C2,288A
Collins	296A	Iuka	285C2
Columbia	244A		
Columbus	235C2,276C2,		

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

MISSISSIPPI (Cont'd)

MISSISSIPPI (Cont'd)

	Channel No.		Channel No.
Jackson	234C,238C,242C, 259C,275C	Pontotoc	244A
Kosciusko	277C3,286C1	Port Gibson	263A
Laurel	251A,262C	Potts Camp	240A
Leland	232C2,272A	Prentiss	252A
Lexington	273C3	Quitman	255C3
Libery	299C3	Richton	243A
Long Beach	233A	Ripley	272A
Louisville	296C3	Rosedale	298C3
Lucedale	295A	Sardis	271A
Lumberton	237C1	Starkville	221A,291C2
Macon	263A	State College	283C3
Magee	298C	Stonewall	295A
Marion	236C2	Sumrall	247A
McComb	289C1	Talorsville	240C2
McLain	245A	Tunica	241C3
Meridian	246C,267C1,271A	Tupelo	253C1
Monticello	271C2	³ Tylertown	249A,297A
Moss Point	285C2	Union	281C2
Mound Bayou	271A	University	221A
Natchez	236C,247A	Utica	265C2
¹ New Albany	294C2,268A	Vicksburg	254C1,267A, 294C
² New Augusta	269A	Water Valley	288A
Newton	250A	Waynesboro	288A
Ocean Springs	223A,276C2	West Point	265A
Olive Branch	239A	Winona	236A
Oxford	229C3,238A,248C1 286A	Yazoo City	221C3,226A
Pascagoula	256C1,290C3		
Pearl	230C3		
Petal	292C3		
Philadelphia	272A		
Picayune	291C2		
Pickens	290C2		

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

MISSOURI

MISSOURI (Cont'd)

Channel No.

Channel No.

Asbury	278C3
Ash Grove	281A
Ashland	291C1
Aurora	263C2
Ava	221A
Bethany	238C2
Birch Tree	296C3
Bismarck	258C3
Bonne Terre	282A
Boonville	257C2,226A
Bourbon	231A
Bowling Green	231C3
Branson	292C2
Brookfield	245C2
Brookline	271A
Buffalo	260C3
Butler	221A
Cabool	251A
California	232C2
Cameron	261C2
Campbell	298A
Canton	265C2
Cape Girarau	264C,275B
Carrollton	264C1
Carthage	236C2
Caruthersville	276A
Centralia	221A
Chaffee	284A
Charleston	291C2
Chillicothe	280C3
Clayton	256C
Clinton	237C3,241C
Columbia	244C1,252C2, 268C1,269C3, 272A
Crestwood	234C
Cuba	271A,297C3
Deerfield	264C3
De Soto	261A
Dexter	272A
Dixon	221A
Doniphan	248C2

Doolittle	283A
East Prairie	287A
Eldon	224C2,270A
Eldorado Springs	288A
Ellington	280A
Farmington	253C
Fayette	230C3
Florissant	246C1
Fulton	263A
Gainesville	259C2
Gallatin	269C3
Garden City	287A
Gideon	280A
Gordonville	257A
Halfway	256C3
Hannibal	225C1
Harrisonville	266C1
Houston	257C2
Huntsville	278C2
Ironton	225A
Jefferson City	261C2,281A 295C
Joplin	223C1,273C1
Kansas City	227C,235C,243C, 259C,271C,277C, 282C
Kennett	255C,282A
Kimberling City	261C2
Kirksville	229C2,233C, 300C1
Knob Noster	289C2
Lake Ozark	274A
Lamar	269A
La Monte	246C3
Lebanon	279C,300C2
Lexington	297C
Liberty	293C1
Louisiana	271C3
Lutesville	281A,286A

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

MISSOURI (Cont'd)

MISSOURI (Cont'd)

Channel No.

Channel No.

Macon 260A
Malden 225C3
Malta Bend 248C3
Mansfield 240A
Marble Hill 247A
Marshall 275C1
Marshfield 284C2
Maryville 246C3
Memphis 263C3
Mexico 239C
Miner 296A
Moberly 234C,247C3,
288A,288C2
Monett 240A
Monroe City 298A
Montgomery City 280A
Mount Vernon 294C3
Mountain
Grove 223A
Mountain
View 245C2
¹Naylor 260A
Neosho 259A
Nevada 249A
New London 290C3
New Madrid 293C2
Nixa 290C2
Osage Beach 228C3
Osceola 222A
Oterville 299A
Owensville 237A
Ozark 225C2
Palmyra 250C2
Perryville 226A
Piedmont 285C3
Pleasant Hope 238C2
²Poplar Bluff 233C,238C1,
244A,278C2
223A
Potosi 249C3
Republic 258A

Richmond 223A
Rolla 248A,287C1
Salem 240A
Savannah 224C2
Scott City 230A
Sedalia 221A
Seligman 227C1
³Shell Knob 249A
Sikeston 250C3
Southwest City 262A
Sparta 243C2
Springfield 234C,247C1,
254C,267C
St. Genevieve 289C
St. James 259C3
St. Joseph 286C1
St. Louis 222C,229C1,
242C1,251C1,
273C,277C1,
299C
255A
St Robert 227C2
Steelville 299A
Stockton 265A
Sullivan 228C3
Tarkio 222A
Thayer 222C3
Trenton 269A
Union 282A
Vandalia 236C3
Versailles 260C3
Warrenton 249A,253A
Warsaw 283A
Washington 249A,250A,272A
Waynesville 230C2,250A
Webb City 230C1,273C2
West Plains 290A
Wheeling 286C2
Willard 262C2
Willow Springs

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

MONTANA

MONTANA (Cont'd)

MONTANA		MONTANA (Cont'd)	
	Channel No.		Channel No.
Anaconda	249C3		
Baker	263C1	Hamilton	240C3,251C3
Belgrade	244C2	Hardin	238C
Big Sky	283A	Havre	223C,236C
Billings	227C1,231C1, 242C1,246C2, 253C1,275C1, 279C,286A,298C	Helena	258C1,266C,276C, 287C
Bozeman	229C1,236C1,271C2,260C1	Kalispell	246C,253C,280C1, 292C
Butte	223C1A,231C,238C *295A	Laurel	269C1
Cascade	285C	Lewistown	240A
Chinook	267C1	Libby	269A
Columbia Falls	240A	Livingston	248C1,264C
Conrad	229C1	Malta	261A
Cut Bank	274C1	Miles City	223C
Deer Lodge	243C2	Missoula	227C,235C,261C1 273C1
Dillon	252C3	Outlook	289C
East Helena	281C3	Plentywood	261A
Ennis	254C2	Red Lodge	257A
'Eureka	228C3	Ronan	222C
Forsyth	267C	Scobey	239C1
Glasgow	228A	Shelby	242C1,250C
Glendive	243C1	Sidney	226C1,236C1
Great Falls	225C1,233C1, 255C1,262C, 291C,297C	West Yellowstone	243A
		Wolf Point	224A

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

NEBRASKA

	Channel No.
Ainsworth	224A
¹ Albion	224C2
Alliance	271C1,290C1
Auburn	288A
Aurora	247C1
Beatrice	225C1
Bennington	227A
Blair	292A
Bridgeport	267C
Broken Bow	252A
Central City	262C
Chadron	234C1,248C1
Columbus	228C1,266C1
Cozad	283C1
Crete	281C2
Crookston	241C1
Fairbury	258C1
Falls City	267A
Fremont	288A
Gering	280C
Gordon	238C2
Grand Island	239C1,243C1,299C1
Hastings	233C2,268C
Holdrege	249C1
Imperial	276A
Kearney	255C1,272C3,290C
Kimball	261A

NEBRASKA (Cont'd)

	Channel No.
Lexington	226C1
² Lincoln	236C2,270C,274C1, 287A,292C2,297C1
McCook	230C2,241A,253C2, 287C1
Milford	251C
Nebraska City	249C1
Norfolk	234C1,294C
North Platte	235C,246C1,278C1
O'Neil	275C1
Ogallala	259C1,293C1
Omaha	222C,231C,241C, 260C,264C,283C, 290C2
Orchard	287C1
Ord	280C3
Plattsmouth	295A
Scottsbluff	225C,231C1
Seward	245C1
Sidney	254C1
South Sioux City	296A
Superior	280A
Terrytown	245C1
Wayne	285A
West Point	300C2
Winnebago	289C2
York	285C3

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

NEVADA

	Channel No.
Amargosa Valley	266A
Battle Mountain	253A
Beatty	262A
Boulder City	288C2
Carson City	234C,247C,251C
Elko	229C2,237C1
Ely	224C3,243A, 269C3
Fallon	257A,267C2
Gardnerville- Minden	256C3
Hawthorne	228A
Henderson	231C,238C,263C
Incline Village	261C2
Indian Springs	257A
Las Vegas	222C,226C,242C, 246C,253C,270C, 278C,286C2, 293C
Laughlin	228C1,300C1
1Mesquite	248C1,244C
Moapa Valley	284A
North Las Vegas	282C
Pahrump	236A,298C
Reno	225C,238C,271C3, 283C,289C,295C
Smith	222C3
Sparks	221A,265A
Sun Valley	229A
Tonopah	224A
Wendover	272C
Winnemucca	224C3

NEW HAMPSHIRE

Bedford	243A
Belmont	227A
Berlin	279C
Campton	289A

NEW HAMPSHIRE (Cont'd)

	Channel No.
Claremont	291B
Concord	272A,288A
Conway	228A,283A
Dover	248B
Exeter	296A
Farmington	293A
Franklin	231A
Gorham	296A
Hampton	271A
Hanover	222A,257A
Haverhill	267A
Henniker	256A
Hillsboro	299A
Hinsdale	285A
Jackson	258A
Keene	279B
Laconia	252A
Lancaster	272A
Lebanon	263C3
Lisbon	244A
Littleton	292A
Manchester	239B,266B
Meredith	268A
Moultonborough	295A
Mount Washington	235C
Nashua	292A
New London	259A
Newport	269A
Peterborough	221A
Pioche	255A
Plymouth	261A
Portsmouth	262B
Rochester	244A
Somersworth	254A
Walpole	242A
Winchester	254A
Wolfeboro	285A

73.202(b) NEW JERSEY

[¹96-144;7/21/97][²N/A;7/31/97]
 [³95-166;10/15/96][⁴96-54;6/30/97]
 [⁵96-257;9/29/97][⁶N/A;8/20/96]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

NEW JERSEY

NEW JERSEY (Cont'd)

Channel No.	
Asbury Park	232A
Atlantic City	236B,245B,279B, 297B1
Avalon	232A
Belvidere	296A
Blairstown	292A
Bridgeton	299B
Camden	295B
Canton	269A
Cape May	272A
Cape May Court House	288A
Dover	288A
Eatontown	292A
Egg Harbor City	285B1
Franklin	272A
Long Branch	296A
Manahawkin	289B1, 261A
Margate City	241A
Millville	247B
New Brunswick	252A
Newark	234B,262B,290B1
Newton	279B1
North Cape May	294A
Ocean Acres	253A
Ocean City	252A,292A
Paterson	226B
Petersburg	274A
Pleasantville	257A
Point Pleasant	240A
Princeton	277B
Toms River	224A
Trenton	233B,248B,268B
Tuckerton	259A
Villas	254A
Vineland	221A
Wildwood	264B

Wildwood Crest	226A
Zarephath	256B

NEW MEXICO

^{1,2} Alamogordo	232C3,279A, 287C2,300A
Alamos	298C
Albuquerque	222C,227C,231C, 242C,258C,262C, 267A,277C,300C
Angel Fire	256C2
Armijo	296C2
Artesia	225C
Aztec	235C1
Bayard	275C1
Belen	249C1
Bloomfield	283C
Bosque Farms	284C
Carlsbad	221A,281C1, 291C2
² Central	- - - -
³ Chama	255A
Clayton	228A
^{4,5} Cloudcroft	244C,250C1
Clovis	256C1,260C1, 268C1,272C3, 298C1
Corrales	236C1
Deming	232A
⁶ Espanola	272C3,225C2
Eunice	265A
Farmington	225C1,239C1, 245C, 271C

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

NEW MEXICO (Cont'd)

	Channel No.
Gallup	229C,233C,256C, 291C2,268A
Grants	224C2,264C2 279C,288C
Hatch	266C
Hobbs	231C1,239C3, 243A,275C1
Jal	279C1
Kirtland	275C
La Luz	224A
Las Cruces	258C,276A,280A
Las Vegas	251C,264C3,244A
Lordsburg	250C,279C3,289C3
Los Alamos	253C,294C1,298C1
Los Lunas	273C2,292C1
Lovington	269C3
Maljamar	*254C1,286C
Mesilla Park	285A
Portales	237A
Raton	229C2,249A
Reserve	283C3
Rio Rancho	269A
Roswell	235C,246C1,*258A, 263C1,284C2,293C1
Ruidoso	228C3,268A
Santa Clara	237C1
Santa Fe	238C1,247C, 281C,286C,290C 237C1,234C1
Santa Rosa	240A
Silver City	225C2
Socorro	225A
Taos	260C,270C1
Tatum	296C
Texico	243A
Thoreau	260C
Truth or Consequences	254C
Tucumcari	224A
White Rock	266A

NEW YORK

Albany 238B,265A,276A,
293B,299B

NEW YORK (Cont'd)

	Channel No.
Albion	238A
Alfred	270A
² Amherst	221A
Amsterdam	249A
Arlington	245A
Attica	269A
Auburn	295B
Avon	227A
Babylon	272A
Baldwinsville	221B1
Ballston Spa	272A
Bath	252A,276A
Bay Shore	276A
Big Flats	249A
Binghamton	251B,256B
Boonville	267A
Briarcliff Manor	296A
Bridge- hampton	273A
Bridgeport	258A
Brighton	231A
Brockport	288A
Buffalo	225B,233B,241B, 245B,258B,273B, 277B,281B,293B
Calverton- Roanoke	287A
Canajoharie	227A
Canandaigua	272A
Canton	244A,268A
Cape Vincent	234A,274A
Carthage	276A
Catskill	253A
Center Moriches	241A
Chateaugay	234C2
Chenango Bridge	281A
Cherry Valley	270B
Clifton Park	244A
Clyde	229A
Cobleskill	278B
Conklin	263A
Copenhagen	294C3
Corinth	228A
Corning	254A,291B

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

NEW YORK (Cont'd)

NEW YORK (Cont'd)

	Channel No.		Channel No.
Cortland	260B	Ithaca	228A,247B,279B
Dansville	230A	¹ Jamestown	227B,270A
Delhi	262A	Jeffersonville	271A,291A
Depew	229B	Jewett	250A
Deposit	234A	Johnstown	285A
Deruyter	286B	Kingston	232A
Dundee	240A	Lake George	253A
East Hampton	244A	Lake Luzerne	234A
Ellenville	257A	Lake Placid	288A
Elmira	224A,232A	Lake Success	278B
Endicott	289B	Lakewood	295B1
Endwell	298A	Liberty	240A
Essex	267A	Little Falls	288A
Fort Plain	266A	Lowville	257A
Frankfort	235B	Malone	243A
Fredonia	243A	Manlius	239B1
Fulton	284B	Mechanicville	283A
Garden City	224A	Mexico	280A
Geneva	269A	Middletown	224A
Glens Falls	240A	Minetto	293A
Gouverneur	237A	Montauk	235A,284A
Grand Gorge	287A	Monticello	252A,259A
Hammondsport	252A	Montour Falls	285A
Hampton Bays	296A	Morristown	275A
Hague	229A	Mount Kisco	292A
Hempstead	252A	New Paltz	277A
Henderson	264A	New Rochelle	228A
Herkimer	224A	New York	222B,250B,238B, 242B,246B,250B, 254B,258B,266B, 270B,274B,282B, 286B,294B,298B
Highland	297A	Newburgh	276A
Homer	268A	Niagara Falls	253B
Honeoye Falls	297A	North Syracuse	265A
Hoosick Falls	248A	Norwich	230B,237A
Hornell	221A,287B	Norwood	241A
Horseheads	265A		
Hudson	228A		
Hudson Falls	269A,296A		
Hyde Park	249A		
Irondequoit	294A		

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

NEW YORK (Cont'd)

	Channel No.
Ogdensburg	224A,254A
Old Forge	231A,259A
Olean	239B,268A
Oneonta	276A,280A
Oneida	292A
Oswego	244A,288A
Owego	269A
Palmyra	259A
Patchogue	248B,291B
Patterson	288A
Peekskill	264B
Phoenix	271A
Plattsburgh	260C,286C3
Port Henry	221A
Port Jervis	244A
Potsdam	257A
Poughkeepsie	221A,241A,268B, 284B
Pulaski	269A
Queensbury	289B1
Ravena	233A
Remsen	228A
Rensselaer	280A
Riverhead	280A
Rochester	223B,243B,250B, 255B,263B,267B, 280A,290A
Rome	241B1,273B
Rosendale	273A
Rotterdam	252A
Sag Harbor	221A
Salamanca	252A
Saranac Lake	269A,292C3
Saugerties	225A
Schenectady	258B
Schoharie	247A
Seneca Falls	257A

NEW YORK (Cont'd)

	Channel No.
Sidney	265A
Smithtown	232A
Sodus	278A
South Bristol Township	236B
Southampton	225A,237A
Southhold	269A
Southport	258A
Star Lake	290B1
Stillwater	267A
Sylvan Beach	262A
Syracuse	226B,233B,275B, 290A,300B
Ticonderoga	280A
Troy	222B
Tupper Lake	272A
Utica	245B,254B,264A, 282B,297B
Vestal	277B1
Voorheesville	242A
Walton	221A
Warrensburg	262B1
Waterloo	253A
Watertown	228A,248C1
Waverly	271A
Webster	274A
Wellsville	278A
Westhampton	253A
Westport	273A
Wethersfield Township	299B
White Plains	280A
Whitesboro	250A
Whitehall	231A
'Windsor	294A
Woodstock	261A
Wurtsboro	247A

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

NORTH CAROLINA

NORTH CAROLINA (Cont'd)

	Channel No.		Channel No.
Ahoskie	257A		
Albemarle	265A		
Asheboro	222C		
Ashville	260C		
Atlantic	298A,297C3		
¹ Aurora	283A		
Banner Elk	264A		
Bayboro	250C3		
Belhaven	266C2		
Biltmore Forest	243A		
Black Mountain	295C		
Burgaw	260C1		
Burlington	230C,266C		
Calabash	285C3		
Carolina Beach	294A		
Charlotte	236C,279C,284C, 300C		
Clinton	297C3		
² Columbia	289C1,273C1		
Concord	250C		
Dunn	278C2		
Durham	286C,296A		
Eden	233C1		
² Edenton	261C2		
Elizabeth City	244A		
Elizabethtown	289A		
Elkin	265A		
Fairbluff	287A		
Fairmont	265C2		
Farmville	232A		
Fayetteville	251C1		
Forest City	227C		
Franklin	244A		
Fuquay-Varina	280C3		
Gaston	250A		
Gastonia	270C		
Goldsboro	245C,272A		
Greensboro	246C,254C		
Greenville	300C		
Grifton	258C2		
		Hamlet	282A
		Harkers Island	262C1
		Harrisburg	224A
		Hatteras	233C1,246C2
		³ Havelock	286C3
		Henderson	223C
		Hendersonville	273C1
		Hertford	285C2
		Hickory	239C,275C1
		High Point	238C1,258C,262C
		Highlands	283A
		Hope Mills	283A
		Jacksonville	222C2,254C1, 288C2
		Jefferson	291C3
		Kannapolis	259C
		Kill Devil Hills	281C1
		Kinston	236C,249A,275A

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

NORTH CAROLINA (Cont'd)

	Channel No.
Laurinburg	243C
Leland	231A
Lenoir	277A
Lexington	231C
Louisburg	273A
Lumberton	239C,272A
Manteo	251C2,256C2
Morehead City	242C1
Morganton	221A
Moyock	221C3
Murfreesboro	252A
Murphy	274A
¹ Nags Head	222C3
Nashville	259A
New Bern	232A,270C1, 293C1
Newport	277C1
Norlina	232A
North Wilkesboro	247C
Ocean Isle Beach	228A
Ocracoke	224C1
Old Fort	282A
Pine Knoll	
Pinetops	238C3
Plymouth	240A
Raleigh	234C,241C,268C, 275A
Reidsville	271C
Roanoke Rapids	272A
Robbins	276A
Robbinsville	240A

NORTH CAROLINA (Cont'd)

	Channel No.
Rocky Mount	221A,253C3,264C
Rose Hill	284A
Roxboro	244A
St. Pauls	299A
¹ Salisbury	293C1
Sanford	288A
¹ Semora	294C2
Shallottee	252C3,279C3, 292A
Shelby	241C
Southern Pines	273A,295C2
Southern Shores	265C2
Southport	298C2
Statesville	245C,289C
Tarboro	282C1
Thomasville	252A
Topsail Beach	280C3
Wadesboro	228C3
Wallace	232A
Wanchese	237C3
Warrenton	297C2
Washington	227C,252A
Waxhaw	291C3
Waynesville	285A
Whiteville	256C1
Williamston	279C1
Wilmington	247C1,267C2, 274C1,283A
Wilson	291C
Windsor	249A,255A
Winston-Salem	226C,281C,298C
Wrightsville Beach	229A

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

NORTH DAKOTA

	Channel No.
Arthur	244A
Beulah	250A
Bismarck	225C,233C,243C, 254C,268C
Bottineau	270C1
Cavalier	286C2
Carrington	252A
Devils Lake	244AC2,273C1, 278C1
Dickinson	221C3,256C1
Fargo	229C,250C, 270C1,300C1
Grafton	265C3
Grand Forks	225C1,234C1, 298C1
Harwood	264C3
Hettinger	228A
Hope	284A
Jamestown	227C1,238C1
Kindred	224C3
Langdon	239A
Lisbon	291C2
Mandan	284C1
Mayville	288C3
Minot	229C1,246C, 260C1,287C1, 295A
Rugby	237A
Sarles	290C
Tioga	280A
Valley City	3653C,266C2
Wahpeton	295C2
Walhalla	294C2

OHIO

	Channel No.
Williston	241C1,253C1, 266C1
Wishek	262C1
OHIO	
Ada	235A
Akron	243B,248B
Alliance	223B
Archbold	241A
Ashland	267B
Ashtabula	246B,252A
Athens	240A,288A
Barnesville	228A
Beavercreek	280A
Bellaire	263A
Bellefontaine	252A
Bellevue	221A
Belpre	296A
Bowling Green	228A
Bryan	265A
Bucyrus	224A
Byesville	249A
Cadiz	292A
Caldwell	285A
Cambridge	244A
Canton	231B,251B,295B
Castalia	249A
Celina	232A,244A
Chillicothe	227B,232B1
Cincinnati	223B,227B,231B, 253B,270B,274B, 286B

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

OHIO (Cont'd)

	Channel No.
Circleville	296A
Cleveland	226B,238B,253B, 258B,264B,271B, 277B,281B,289B, 293B,300B
Cleveland Heights	222B
Clyde	265A
Coal Grove	246A
Columbus	222B,234B,242B, 246B,250B,259B, 298A
Conneaut	288A
Coshocton	257A
Crestline	254A
Crooksville	297A
Dayton	256B,284B,299B
Defiance	251B,290A
Delaware	300A
Delphos	296A
Delta	293A
Dover	269A
East Liverpool	282B
Eaton	225B
Edgewood	273A
Elyria	297B
Englewood	233A
Fairfield	235B
Findlay	263B
Fort Shawnee	298A
Fostoria	244A
Fredericktown	252A
Fremont	256B1

OHIO (Cont'd)

	Channel No.
Gahanna	285A
Galion	272A
Gallipolis	268B
Geneva	284A
Georgetown	249A
Gibsonburg	239A
Greenfield	248A
Greenville	293B
Grove City	266A
Hamilton	243B,278B
Harrison	282A
Hicksville	294A
Hillsboro	294B
Holland	272A
Hubbard	270A
Huron	241A
Ironton	296A
Jackson	249A
Johnstown	276A
Kent	261A
Kenton	237A
Kettering	260B
Lancaster	238B,278A
Lebanon	247A
Lima	226A,249A,271B, 285A
Logan	252A
London	292A
Lorain	285A
Loudonville	299A
Manchester	267A
Mansfield	287B,291B
Marietta	271B1

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

OHIO (Cont'd)

	Channel No.
Marion	232A,295B
Marysville	289A
McArthur	254A
McConnelsville	265A
Medina	235B
Miamisburg	229B
Middleport	221A
Middletown	290B
Milford	296A
Millersburg	237A
Montpelier	283A
Mount Gilead	236A
Mount Vernon	229B
Napoleon	276A
Nelsonville	299A
New Lexington	292A
New Philadelphia	240A
Newark	262B,269A
Niles	291A
North Baltimore	299A
North Madison	229A
North Kingsville	298A
Norwalk	237A
Oak Harbor	247A
Ottawa	292A
Oxford	249A
Paulding	259A
Piketon	261A
Piqua	239B
Pleasant City	221A
Port Clinton	233B
Portsmouth	257A,281C,298A
Richwood	282A
Ripley	258C3

OHIO (Cont'd)

	Channel No.
St. Marys	277A
Salem	286B
Sandusky	274B
Shadyside	239B1
Shelby	261A
Sidney	288A
South Webster	235A
Springfield	264B,275B
Steubenville	278B
Swanton	297A
Sylvania	288A
Tiffin	279B
Toledo	223B,260B,268B, 284B
Troy	245A
Uhrichsville	260A
Union City	248A
Upper Arlington	255A
Upper Sandusky	240A
Urbana	269A
Van Wert	230A,255B
Wapakoneta	221A
Washington Courthouse	288A
Wauseon	245A
Waverly	265A
Wellston	244B1
West Carrollton	221A
West Union	276A
Westerville	280A
Willard	245A
Wilmington	272A
Wooster	283B
Xenia	237A
Youngstown	227B,255B,266B
Zanesville	224A,273B

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

OKLAHOMA		OKLAHOMA (Cont'd)	
Channel	No.	Channel	No.
Ada	257A	Heavener	223A
Altus	228C2,300C3	Henryetta	258C1
Alva	259C1,278C1, 289C2	Hobart	290C
Anadarko	279C1	Holdenville	293A
Antlers	284A	Hollis	223A
Ardmore	239C1,253A	Hugo	238C2
Atoka	276C2	Idabel	244C3,275A
Bartlesville	261C1	Ketchum	298C1
Bethany	285A	Kingfisher	287A
Bixby	287C2	Lahoma	239C3
Bristow	285A	Lawton	232A,237C3, 251C1,258C3, 268C1,297C2
Broken Arrow	221C2	Lindsay	286A
Broken Bow	291C2	Locust Grove	233A
Byng	261C2	Lone Grove	294A
Chelsea	264A	Madill	273A
Chickasha	288A	Mangum	249A
Claremore	- - - -	Marlow	221C1
Clinton	238C2,295C1	McAlester	267C1,286A
Coalgate	288C2	Miami	265A
Collinsville	268C3	Muskogee	246C,295C
Comanche	246A	Newcastle	227C1
Cordell	229A,257A	Norman	292A
Dickson	278C3	Nowata	285A
Duncan	272A	Oklahoma City	223C,234C,241C, 255C,263C,270C, 274C,281C,299C
¹ Durant	248C2,296C3	Okmulgee	231C1
Edmond	250A	Owasso	291C
Eldorado	246A	Pauls Valley	249C3
Elk City	232C3,243C1, 253C	Pawhuska	280A
¹ Enid	245C,276C3	Perry	286A
Eufaula	273C3	Ponca City	257A,284A,265A
Frederick	240A	Poteau	250C,297C
Grove	257A		
² Guymon	224C3,258C1		
Heraldton	229C2		

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

OREGON (Cont'd)

	Channel No.
Oakridge	221A
Ontario	241C1
Pendleton	279C1,299C
Phoenix	286C1
Portland	222C,229C,238C, 246C,254C1, 258C1,262C, 266C,270C
Prineville	236C1
² Redmond	275C1,298C1,269C2
Reedsport	221A,258C3
Rogue River	234A
Roseburg	276C2
Salem	286C
Seaside	251A,272A
Sisters	281C1
Springfield- Eugene	226C
² Sunriver	224C2
¹ Sutherlin	266C3
Sweet Home	296C1
² The Dalles	249C2,283C,*268C3
Tillamook	281C3,231A
Toledo	264C2
Tri-City	282C2
Warm Springs	243C

PENNSYLVANIA

Allentown	264B,281B
Altoona	251B,261B1
Avis	260A
Barnesboro	228A
Beaver Falls	249B
Beaver Springs	291A
Bedford	265A,298A

PENNSYLVANIA (Cont'd)

	Channel No.
Bellefonte	237A
Bellwood	280A
Benton	240A
Berwick	278A
Bethlehem	236B
Blairsville	292A
Bloomsburg	293B
Boalsburg	229A
Boyertown	298B
Braddock	245B
Bradford	261A
Brookville	277B1,288B1
Burnham	244A
Butler	249A
Cambridge Springs	283A
Canton	262B1
Carbondale	232A
Carlisle	272A
Central City	269A
Chambersburg	236B
Charleroi	252A
Clarendon	282A
Clarion	224A
Clearfield	226B1
Cooperstown	299A
Coudersport	244A
Covington	268A
Cresson	232A
Curwensville	275A
Dallas	229A
Danville	244A
Dubois	271B,297B
Easton	241B,260B
Ebensburg	256B
Edinboro	250B1

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

PENNSYLVANIA (Cont'd)

	Channel No.
Elizabethville	263A
Ellwood City	221A
Emporium	257A
Ephrata	286B
Erie	234A,260B,272A, 279B
Everett	282A
Fairview	230A
¹ Forest City	261A
Franklin	257B1
Freeland	276A
Galeton	264B1
Gettysburg	299B
Greencastle	232A
Greensburg	269A
Greenville	296A
Grove City	236B
Harrisburg	235B,247B,257A, 281B
Hawley	287A
Hazleton	250B
Hershey	294B
Hollidaysburg	285A
Honesdale	237A
Huntingdon	278A,292A
Indiana	223A
Jenkintown	280A
Jersey Shore	242B1,249A
Johnsonburg	263A
Johnstown	221A,238B,243B
Kane	280A
Lancaster	233B,245B,267B
LaPorte	280A
Lebanon	261A

PENNSYLVANIA (Cont'd)

	Channel No.
Lewisburg	279A
Lewistown	240A,288A
Linesville	269A
Lock Haven	221A
Mansfield	222A
Martinsburg	224A
Masontown	295A
McConnellsburg	279A
Meadville	262B
Mechanicsburg	228A
Media	262B
Mercer	244A,280A
Mercersburg	221A
Mexico	223A
Meyersdale	227A
Mifflinburg	252A
Mifflintown	296A
Millersburg	255A
Mill Hall	254A
Milton	265A
Montrose	243B
Mountaintop	246A
Mount Carmel	259A
Mount Union	258A
Muncy	227B1
Nanticoke	221A
New Kensington	264B
North East	265B1
Northumberland	297A
Oil City	253B1,242A
Oliver	235B1
Olyphant	239A

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

PENNSYLVANIA (Cont'd)

	Channel No.
Palmyra	221A
Patton	234A
Philadelphia	223B,227B,231B, 239B,243B,251B, 255B,266B,271B, 275B,283B,287B, 291B
Philipsburg	290A
Pittsburgh	225B,229B,233B, 241B,259B,268B, 273B,284B,290B, 300B
Pittston	272A
¹ Pocono Pines	290A
Port Allegany	235A
Port Matilda	300A
Portage	289A
Pottsville	270B
Punxsutawney	281A
Reading	273B
Red Lion	241B
Renovo	295A
² Reynoldsville	293A
Ridgebury	245A
Riverside	222A
Russell	276A
Saegertown	232A
Salladsburg	238A
Scottdale	280A
Scranton	258,267B,285A, 295A
Shamokin	237A
Sharon	275B

PENNSYLVANIA (Cont'd)

	Channel No.
Sharpsville	240A
Smethport	292A
Somerset	249A
South Waverly	241A
South Williamsport	257A
Spangler	247A
St. Marys	230B1
Starview	224A
State College	233A,276A
Stroudsburg	228A
Sunbury	231B
Susquehanna	223A
Tamaqua	288A
Tioga	234B1
Tobyhanna	300A
Towanda	237A
Tunkhannock	299A
Tyrone	266B
Union City	292A
Uniontown	257A
University Park	246A
Warren	222B
Washington	237A
Waynesboro	268B
Waynesburg	276A
Wellsboro	283B
Whitneyville	296A
Wilkes-Barre	225B,253B
Williamsport	274B,286B,300A
York	277B,289B
York-Hanover	253B

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

RHODE ISLAND

	Channel No.
Block Island	240A,257A
Middletown	262A
Narrangansett Pier	274A
Providence	222B,231B,238B, 268B,286B
Wakefield- Peacedale	259A
Westerly	279B
Woonsocket	292A

SOUTH CAROLINA

Abbeville	225A
Aiken	242C2,258C2
Allendale	228A
Anderson	266C,297C
Andrews	264A
Atlantic Beach	262A
Bamberg	239A
Barnwell	256C3
Batesburg	226A,237A
Beaufort	254C1
Bishopville	229A
Blackville	250A
Bluffton	295C1
Bowman	223A
Branchville	286A
Bucksport	300C2

SOUTH CAROLINA (Cont'd)

	Channel No.
Camden	274A
Cayce	244A
Charleston	236C,245C, 263C3,278C1
Cheraw	277C2
Chester	257C3
Chesterfield	297A
Clearwater	252A
Clemson	285A
Columbia	228A,248C1, 276A,284C
Conway	230A
Cross Hill	231A
Darlington	288C3
Dillon	225C
Easley	280A
Elloree	262C3
Florence	292A
Folly Beach	251C2
Forest Acres	232A
Gaffney	287C
Garden City	249C1
Georgetown	229A,293C2
Goose Creek	232C3
Gray Court	263C
Greenville	223C,229C,233C
Greenwood	244A,278A
Greer	277A
Hampton	221A
Hanahan	241C1
Hardeeville	266C2

[Next Page is No. 220.1]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

SOUTH CAROLINA (Cont'd)		SOUTH CAROLINA (Cont'd)	
	Channel No.		Channel No.
Hartsville	253A	Pageland	272A
Hilton Head		Pamplico	271C2
Island	291C2,300C2	¹ Parris Island	276C3
Honea Path	276A	Pawley's	
Johnsonville	286A	Island	253A
Johnston	224A	Port Royal	259C
Kingstree	231A,257C3	Ravenel	269C3
Lake City	261A	Ridgeland	285C3
Lancaster	296A	Ridgeville	265C3
Landson	292A	St. Andrews	272A
Latta	232C3	St. George	298C
Lexington	253A	St. Matthews	230A
Loris	235A	St. Stephen	291A
Manning	223C	Saluda	221A
Marion	263C3	Scranton	275A
McClellanville	255C2	Seneca	251C
Moncks	287C3	Socastee	258A
Corner		South Congaree	237A
Mount Pleasant	283C2	Spartanburg	255C
Mullins	296C2	Summerton	252A
Murrell's Inlet	233A	Summerville	227C2
Myrtle Beach	221C2,269C2,281C1	Sumter	234A,267C
New Ellenton	274A	Surfside Beach	276C3
Newberry	292C3	Walhalla	242A
North Charleston	273C	Walterboro	265A,229A
North Myrtle		Wedgfield	238A
Beach	290C3	West Columbia	261A
Orangeburg	275A,280C3,294C1	Williston	234A

73.202(b) SOUTH DAKOTA

[¹97-190;4/20/98][²97-191;4/20/98]
 [³97-175;4/27/98][⁴97-176;4/27/98]
 [⁵96-124;11/24/97]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

SOUTH DAKOTA

TENNESSEE

	Channel No.
Aberdeen	231C1,235C,294C1
Belle Fourche	240C1,271C3
Brookings	229C1
Canton	274A
Clear Lake	296C3
Custer	286C2
Deadwood	236C
Dell Rapids	239C3
Faith	246C
Gregory	268C1
Hot Springs	244C2
Huron	256A 286A
¹ Ipswich	300A
Lead	232C
Lowry	264C1
Madison	276C2
Martin	273C1
Milbank	282C1
Mission	264A
Mitchell	290C1,297C1
Mobridge	258C1
² Murdo	285A
Pierre	224A,224C3,237C2
Pine Ridge	228A
³ Presho	262A
Rapid City	222C,230C1, 250C1,262C1, 254C1,281C1, 292C
Redfield	249A,279C3
Reliance	233C
⁴ Roscoe	287A
Salem	263C1
Sioux Falls	223C,243C,247C1 261A,270C2,279C2 284C,233A
Sisseton	258C2,275C1
Spearfish	266C,297C
Sturgis	226C
Vermillion	292C2
Volga	272C3
Watertown	225C1,241C1,245C
⁵ Wessington Springs	227C1,252C1
⁵ Winner	229C1
Yankton	226C1,281C1

	Channel No.
Alamo	226C3
Athens	269C3
Atwood	229A
Bartlett	225A
Baxter	299C3
Belle Meade	294A
Benton	226A
Bolivar	234A,253A
Bristol	245C
Brownsville	237A
Bulls Gap	264A
Byrdstown	244A
Calhoun	281A
Camden	240A
Carthage	281A
Caruthersville	286A
Celina	268A
Centerville	244A
Chattanooga	222C,243C,293C
Cleveland	237A,264C
Clifton	293A
Clinton	237A
Coalmont	284A
Collinwood	235C3
Colonial Heights	240C2
Columbia	269A
Cookeville	234C,253C2
Covington	228A
Crossville	257A,273C3
Dayton	285A
Dickson	273C2,273C1
Dresden	232A
Dyer	232A
Dyersburg	261C2
East Ridge	300C3
Elizabethton	257C3
Erwin	280A
Etowah	276C2
Fayetteville	288A
Franklin	261A
Gallatin	283C1
Gatlinburg	288A
Germantown	231C2,298C3
Goodlettsville	246C2
Graysville	239A
Greensville	235C
Harriman	224A

[196-265;10/27/97][²N/A;9/9/97]
 [391-152;12/16/96][⁴93-28;2/3/97]
 [⁵97-97;9/8/97][⁶N/A;7/31/97][⁷97-60;10/20/97]

73.202(b) TENNESSEE (Cont'd)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

TENNESSEE (Cont'd)

TENNESSEE (Cont'd)

	Channel No.		Channel No.
Harrogate	243A	Murfreesboro	242C1
Henderson	239A,299A	Nashville	225C,238C,250C, 277C,290C
Hendersonville	221A	Newport	225A
Humboldt	272A,287A	Norris	294A
Huntingdon	265C3	Oak Ridge	232A,262C
Jackson	268A276C2,281C1	Oliver Springs	254C3
Jamestown	280A,286A	Oneida	288A
Jefferson City	257A	Paris	231C3,288A
Jellico	274A	Parsons	247A
Johnson City	268C	Pulaski	252A
Karns	226A	Red Bank	232A
Kingsport	253C,285A	Ripley	235A
¹ Kingston Springs	229A	Rockwood	289A
Knoxville	248C,278C,283A, 299C	Rogersville	293A
Lafayette	271A	Savannah	228A,269A
La Follette	285A	Selmer	230A,288A
Lawrenceburg	240A,248A	Sevierville	271C1
Lebanon	255A,298C	Seymour	242A
Lenoir City	228A	Shelbyville	257C1
Lewisburg	232A	Signal Mountain	251A
Lexington	257A	Smithville	269A
² Livingston	240C2	Smyrna	231A
Lobelville	233C2	Soddy-Daisy	272A
Loudon	256A,287A	South Pittsburg	247C2
Madisonville	258A	Sparta	288A
Manchester	259C,268A	Spencer	297A
Martin	269A	Spring City	230C3
Maryville	239A	Springfield	232A
McKenzie	295C1	St. Joseph	268A
McKinnon	268A	Surgoinsville	282A
McMinnville	280A	Sweetwater	252A
Memphis	246C1,259C, 266C1,274C1, 283C1,290C	⁴ Tazewell	290A
³ Middleton	264C3	Trenton	248C3
Milan	222C	Tullahoma	227C
Millington	251C	Tusculum	276A
Minor Hill	221A	Union City	285A,289A
Monterey	284A,295C2	⁶ Wartburg	267C3
⁴ Morristown	231A	Waverly	286C2
⁵ Mt. Juliet	- - - -	⁷ Waynesboro	- - - -
		Woodbury	285A

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

TEXAS

TEXAS (Cont'd)

	Channel No.		Channel No.
Abilene	223C2,264C, 286C1,289A, 292C2,300C1	Breckenridge	228C2
Alamo	285A	Brenham	231A,291C2
Alice	221A,275C2	Bridgeport	252A
Alpine	224A	Brownfield	282C2
Amarillo	226C1,231C, 245C1,250C, 254C1,270C1, 275C1,265C1 289C3	Brownsville	258C,262C
Andrews	288A	Brownwood	257C2,268C1, 281C1
Anson	251C2	Bryan	252A,258A,284C2
Arlington	235C	Burkburnett	284C
Atlanta	261C2	Burnet	223A,295A
Austin	229C,238C, 251C1,264C, 272C2	Caldwell	297A
Ballinger	276A	Cameron	267A,280C2
Bandera	252A	Campwood	256A
Bastrop	296C2	Canadian	235C1
Bay City	269C1,273C1	Canyon	296A,300C1
¹ Beaumont	231C1,236C1,248C1, 273C2,300C	Carrizo Springs	221A,228A
Beeville	250C2,289C3	Carthage	255C1,282A
Bells	226A	Center	272A
Belton	292C3	Centerville	276A
Benavides	299C2	Childress	241C2
Big Lake	252A,280A	Clarendon	257C2
Big Spring	237A,240C3, 232C3	Clarksville	253C2
Bishop	295C3	Claude	239C1
Bloomington	295C3	Cleveland	246C
Blossom	224C2	Clifton	277C3
Bonham	252C3	Coahoma	288A
Borger	282C1,294A	Coleman	296C3
Bowie	2264C3	College Station	236C2
Brackettville	234A	Colorado City	291A
Brady	237A	Columbus	252A
		Comanche	232C2
		Comfort	236C2
		Commerce	277C3
		Conroe	295C
		Copperas Cove	276C3
		Corpus Christi	230C1,234C3, 238C,243C1, 256C1

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

TEXAS (Cont'd)

	Channel No.
Corsicana	300C1
Cotulla	249A
Crane	267C1
Crockett	224C2,228C2
Crystal Beach	268C3
Crystal City	232A
Cuero	49C3
Daingerfield	295A
Dalhart	240A
Dallas	223C,250C,254C, 262C,266C,275C, 283C,287C
¹ Decatur	289C
Del Rio	232A,242C1
Denison- Sherman	269C1
Denton	256C,291C
Denver City	248C2
Devine	221A
Diboll	238C1
Dilley	255C2
Dimmitt	240C3,263C3
Dublin	226C3
Dumas	237C3
Eagle Pass	224A
Eastland	236A,249A
Edinburg	281C,300C1
Edna	241C3
El Campo	245C1
El Paso	222C,226C,230C, 234C,238C,242C, 248C,260C,271C
Electra	235C2
Elgin	223A
Fabens	276A
Fairfield	256C3
Falfurrias	292A,277A
Farmersville	221A
Farwell	222C1,252C2

TEXAS (Cont'd)

	Channel No.
Floresville	231C2
Flower Mound	244C
Floydada	237A
Fort Stockton	232A
Fort Worth	231C,242C,258C, 298C1
Fort Worth- Dallas	246C,271C
Franklin	270C3
Fredericksburg	266C
Freeport	277C
Freer	240A
Friena	234C2
Gainesville	233C,300C2
Galveston	285A,293C
Ganado	284C2
Gatesville	252A
² George West	281A,228C3
Georgetown	244C1,299C3
Giddings	268C2
Gilmer	237C3
³ Glen Rose	221C1
Goliad	240C3
Gonzales	292C2
Graham	206C3
Granbury	294C
Greenville	228C3
Gregory	283A
Groves	223C2
Hallettsville	260A
Haltom City	227C2
Hamilton	221A
Hamlin	279C
Harker Heights	288C2
Harlingen	233C,241C
Haskell	238C

73.202(b) TEXAS(Cont'd) [196-140;12/2/96][296-10;3/3/97][3N/A;8/26/96]
 [496-219;10/27/97][297-69;9/15/97][6N/A;9/16/96]
 [7N/A;6/9/97][895-49;7/14/97][9N/A;11/6/96]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

TEXAS (Cont'd)

TEXAS (Cont'd)

	Channel No.
Hearne	232A
Hebbronville	269A
¹ Hemphill	280A
Hempstead	287C3
² Henderson	- - - -
Hereford	278C2,292C3
Highland Park-	
Dallas	279C
Hillsboro	273C1
Hondo	253A
Hooks	240C3
Howe	237C3
Houston	229C,233C,239C, 243C,250C,256C, 262C,266C,271C, 275C,281C,289C
Hudson	242A
Huntington	270C2
³ Huntsville	259C3,269A
⁴ Hutto	221A
⁵ Idalou	289A,299A
⁶ Ingleside	297C3
² Jacksboro	299A
Jacksonville	272A,293C
Jasper	274C2
Jefferson	283A
Johnson City	300C2
Jourdanton	239A
Junction	228A
Karnes City	276C2
Kennedy	221A
Kermit	292A
Kerrville	222C2,232C2
Kilgore	241C2
Killeen	222A,227C
Kingsville	224C2,248C1

	Channel No.
La Grange	285A
Lake Jackson	298C
Lamesa	284C1
Lampasas	255C1
Laredo	224A,235C1, 251C1,291A
Leakey	282A
Levelland	288A
Liberty	260C2
⁷ Linden	257C2
Littlefield	238C3
Livingston	222C2
⁸ Llano	242A
Lometa	270A
Longview	247C2,289C
Lorenzo	251C2
Los Ybanez	253C2
Lubbock	229C1,233C1, 242C1,258C1, 266C1,273C1, 293C2
Lufkin	257C2,286C
Luling	234C
⁹ Madisonville	241C2,263C3
Malakoff	240A
⁸ Marble Falls	285C3
Marfa	228A
Markham	223A
Marlin	225C2
Marshall	222A,280A
Mason	249C2
McAllen	245C,253C
Mc Camey	237A
McKinney	295A
Memphis	287C1

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

TEXAS (Cont'd)

TEXAS (Cont'd)

	Channel No.		Channel No.
Mercedes	292A	Pasadena	225C
Merkel	274C1	Pearsall	237A,281A
Mexia	285A	Pecos	247C1,252A
Midland	222C,227C1, 236C3,277C1, 294C1	Perryton	240A
Mineola	260A	Pilot Point	285C2
Mineral Wells	240C1	Pittsburg	245A,276A
Mirando City	263C2	Plainview	247C1,280C1, 295C2
Mission	288A	Pleasanton	252A
Monahans	260C1,271C	Point Comfort	231C3
Mount		Port Arthur	227C,253C
Enterprise	260A	Port Isabel	266A
Mount Pleasant	264C	Port Lavaca	227C1
Muenster	293A	Portland	288A
Muleshoe	276A	Post	297C2
Nacogdoches	277C1,299C2	Premont	264C3
Navasota	223A	Quanah	265C3
New Boston	236A,278C2,286A	Raymondville	271C2,289A
New Braunfels	221A	Refugio	291C3
New Ulm	222A	² Rio Grande City	298C2
Nolanville	297A	Robstown	260C1,286A
Odem	252C2	Rockdale	253A
Odessa	241C2, 245C1,250C1, 256C1,300C1	Rockport	272C2
Olney	248C2	Roma	249A
¹ Orange	283C1,291C	Rosenberg	285A
Ozona	232A	Round Rock	290C2
Palacios	259A	Rusk	249C3
Palestine	244A,252C2	San Angelo	225C1,230C1, 234C1,248C1, 254C1,270C1, 298C1,289C3
Pampa	262C2		261C2
Paris	230C2,282C2, 299C2		

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

TEXAS (Cont'd)

TEXAS (Cont'd)

	Channel No.
San Antonio	225C,241C1, 247C,258C,262C, 270C1,274C1, 283C1,298C
San Augustine	223A
San Diego	290C3
Sanger	281C3
San Marcos	278C
San Saba	246A
Seabrook	221C2
Seguin	287C
Seminole	292A
Seymour	230C2
Shamrock	224A
Sherman	- - - -
Silsbee	269A
Sinton	267C1,279C1
Slaton	224C1
Snyder	268C2,246A
Sonora	221A
South Padre Island	224A,237A
Spearman	252A
¹ Stamford	221C2,295A
Stanton	290C2
Stephenville	252A
Sterling City	243C2
Sulphur Springs	240A
Sweetwater	244A
Tahoka	237A,262C1
Tatum	262A
Taylor	282C2
Temple	269C3

	Channel No.
Terrell	296A
Terrell Hills	294C
Texarkana	251C,273C1
Thorndale	257A
Three Rivers	233C2
Tulia	285C3
Tye	259C1
Tyler	221C3,226C1, 268C,281C2
Uvalde	229A,272A,285A
Vernon	272A
Victoria	222A,236C1, 254C1, 265A,300C1
Waco	233A,238C,248C, 260C,296A
Wake Village	223A
² Wellington	278C3
Whitehouse	297C2
Wichita Falls	225C1,260C1, 277C1,273A, 292C2
Willis	279C3
Winfield	249C3
Winnie	264C
Winnsboro	285A
Winona	274A
Winters	241A
Woodville	234C2
Yoakum	223A
³ Yorktown	242A

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

UTAH

	Channel No.
Blanding	221A
Bountiful	258C
Brian Head	251C
Brigham City	264C,295C
Cedar City	223C,235C1
Centerville	289C
Coalville	223A
Delta	239C1
Huntsville	276C3
Kanab	266C1
Levan	256A
Logan	225C2,233C
Manti	286C
Midvale	274C
Moab	46C1
Monroe	257C2
Nephi	280C1
Oakley	268C1
Ogden	238C1,250C,266C, 270C
Orem	298C
Payson	222A
Price	252C3,265A
Provo	235C,242C
Randolph	272A
Richfield	229C,248
Roosevelt	230A,253C2
Roy	300C
St. George	228A,259C,240C
Salt Lake City	227C,231C,246C, 254C,262C,278C, 282C
Smithfield	280A
Spanish Fork	293C1
Tooele	221C3
Torrey	253A
Tremonton	286C2
Vernal	290C3

VERMONT

	Channel No.
Barre	296A
Bellows Falls	296A
Bennington	232A
Brandon	268A
Brattleboro	224A,244A
Burlington	225C,255C1,300C
Canaan	231C3
Danville	239A
Derby Center	221C3
Hartford	282A
Killington	287C2
Lyndon	249C3
Manchester	274B
Marlboro	268A
Middlebury	265A
Montpelier	284C2
Morrisville	230A
Randolph	271C3
Royalton	276A
Rupert	281A
Rutland	233C3,246C2, 251C2
South Burlington	238C3
Springfield	228A
St. Albans	272A
St. Johnsbury	288A
Stowe	269A
Sunderland	236A
Vergennes	244A,294C2
Warren	241A
Waterbury	277C3
West Rutland	298C3
White River Junction	237A
Wilmington	264A
Woodstock	230A

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

VIRGINIA

VIRGINIA (Cont'd)

	Channel No.		Channel No.
Abingdon	224A	Colonial	
Accomac	257B1	Heights	237B1
Alberta	278A	Covington	265A
Alta Vista	288A	Crewe	284C1
Amherst	300C1	Crozet	272A,*278A
Appomattox	274C1,296A	Culpeper	276A
Arlington	286B	Danville	277C1
Ashland	261A	Deltaville	222A
Bedford	295A	Dillwyn	287A
Berryville	288A	Elkton	253B1
Big Stone Gap	228C2	Emporia	258A
Blacksburg	287C3	Ettrick	226A
Blackstone	228C3	Exmore	291B1,298B
Bluefield	292A	Falmouth	283A
Bowling Green	245A	Farmville	225A,239B, 267A
Bridgewater	286A	Fort Lee	243B
Broadway	241B1	Franklin	269A
Buena Vista	244B1	Fredericksburg	227B,268B
Buffalo Gap	238A	Front Royal	237A,257A
Cape Charles	241B	Galax	251C
Cedar Bluff	299A	Gloucester	256A
Charlottesville	224A,236A, 248B,298A	³ Goochland	263A
Chase City	260C3	Gretna	292A
Chesapeake	229C1	Grundy	249A
Chesa-Portsm- Va Beach	271A	Hampton	267B
¹ Chester	266A	Harrisonburg	264B,282B
² Chincoteague	243A	Hot Springs	296A
Christiansburg	264A	Kilmarnock	269A
Churchville	292B1	Lawrenceville	288A
Clarksville	252C3	Lebanon	297A
Clifton Forge	280A	Louisa	288A
Clincho	221A	Luray	280A,289A
Coeburn	259C3	Lynchburg	250C3,261C3, 269C3,290A
Colonial Beach	240A	Manassas	294B
		Marion	230C,278A
		Martinsville	242C1

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

VIRGINIA (Cont'd)		VIRGINIA (Cont'd)	
	Channel No.		Channel No.
Mechanicsville	221B1	Salem	228A
Mount Jackson	245B1	² Shawsville	273A
Narrows	267A	South Boston	237A,248C1
Newport News	247B	South Hill	255C3
New Market	277A	Spotsylvania	257A
Norfolk	239B,254B,259B, 263B,275B,283B, 287B	Stanleytown	260C3
Norton	292A	Staunton	226A,232B1, 259B
Onley-Onancock	277B	Strasburg	285A
Orange	255A	Suffolk	225B,295C
Pennington Gap	288A	Tappahannock	288A
Petersburg	257A,262A	Tazewell	261A
Pound	272A	Vinton	268A,291A
Pulaski	296C3	Virginia Beach	235B
Radford	269A	Warrenton	232A,299B
Redlands	264A	Warsaw	265A
Richlands	288A	West Point	300A
¹ Richmond	233B,251B,289A, 271B,279B,293B	Winchester	223B,273B
Roanoke	222C,235C,256C, 285C3	Windsor	299A
Ruckersville	270A	White Stone	285A
Rural Retreat	237A	Woodbridge	290B
		Woodstock	229B1
		Yorktown	231B

73.202(b) WASHINGTON

[¹97-65;2/23/98][²97-50;3/30/98]
 [³97-83;2/23/98][⁴N/A;12/19/97]
 [⁵97-155;4/13/98][⁶N/A;2/6/98]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

WASHINGTON

WASHINGTON (Cont'd)

	Channel No.		Channel No.
Aberdeen	257C1,284C2	² Ocean Shores	228A
Bellevue	223C	Olympia	241C
Bellingham	225C,282C	Omak	224C2
Bremerton	295C	Opportunity	241C
Camas	234C2	Othello	248C3
Cashmere	266A	Pasco	229A,252A,267C3
Castle Rock	296C3	Prosser	269C3
Centralia	275C	Pullman	258C1,282C1,249A
Chelan	228A	Quincy	240C3,244A
Cheney	266C	Raymond	249C3
¹ Chewelah	*274C3	Richland	235C,274C,293C
Clarkston	231C,275A	Rock Island	258A
Cle Elum	229A	Royal City	242C3
Colfax	272A	Seattle	227C,231C, 235C1,239C, 243C,251C, 255C,260C,264C, 268C,273C,299C
Colville	221A		
Davenport	247A	Shelton	233A
Dayton	223C1,272A	South Bend	289C3
Deer Park	296C3	Spokane	225C,229C, 245C3,251C, 255C,260C, 280C2,284A, 289C,300C
Dishman	293A		
East Wenatchee	249A]	Sunnyside	244A
Eatonville	285A	Tacoma	247C,279C,291C
Edmonds	287C1	Toppenish	225C2
Ellensburg	237C2,276C2	Vancouver	290C2
Elma	271C3	⁴ Walla Walla	227C1,239C,246C, 256C3,264C3
Ephrata	222C2,230C2		
Forks	280A	³ Westport	267A
Goldendale	272C3	Wilson Creek	277C3
Grand Coulee	253C	Winlock	236A
Grandview	265C3	Wisp	292A
Hoquiam	237C3	Wenatchee	271C,285C2,249A
Ilwaco	280C3	Wilson Creek	278C1
Kelso	233A	⁵ Winthrop	248A
Kennewick	287C	⁶ Yakima	233C1,252A, 259C3,281C1, 289C1,297C
Leavenworth	266A		
Long Beach	232A		
Longview	288A		
Lynden	293C		
McCleary	245C3		
Medical Lake	270C2		
Moses Lake	257A,262C1		
Naches	245A,257A		
Newport	285A		

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

WEST VIRGINIA

	Channel No.
Barrackville	226A
Beckley	258B,279B
Berkeley Springs	228A
Bethlehem	288B1
Bluefield	283C
Bridgeport	281A
Buckhannon	228B1,267B
Charles Town	252A
Charleston	241B,248B,260B,274B
Clarksburg	224A,285A,293B
Danville	223A
Dunbar	233B1
Elizabeth	291A
Elkins	234B1,257A
Fairmont	232A,250B
Fisher	279A
Grafton	240A
Hinton	272A
Huntington	263B,277B,300B
'Kenova	250A
Keyser	231B,296A
Kingwood	244A,299A
Lewisburg	276A
Lindside	294A
Logan	270B
Lost Creek	242A
Mannington	274A
Martinsburg	248B
Matewan	294C3
Miami	297B
Milton	292B1
Montgomery	227A
Morgantown	261A,270B

WEST VIRGINIA (Cont'd)

	Channel No.
Moundsville	243A
Mount Hope	290B
Mullens	224A
New Martinsville	280A,258A
Oak Hill	231B
Parkersburg	236B,256B1,276A
Petersburg	269A
Pocatalico	254A
Point Pleasant	258A
Princeton	240A,265A
Rainelle	237B1
Ravenswood	226A
Ripley	252A
Romney	261A,*281A
Ronceverte	249A
Salem	277A,289A
South Charleston	265A
Spencer	284A
St. Albans	286B
St. Marys	230B1
Summersville	225B
Sutton	246B1
Vienna	261A
Webster Springs	262B
Welch	275A
Weston	272B1
Westover	265A
Wheeling	247B,254B,298B
White Sulphur Springs	227A
Williamson	243B
Williamstown	245A

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

WISCONSIN

WISCONSIN (Cont'd)

Channel No.	Channel No.
Adams 291A	Hartford 285A
¹ Algoma 244C3,281A	Hayward 222A,266A
Allouez 294C3	Iron River 297C3
Altoona 251C3	Janesville 260B1
Antigo 287C1,291C3	Kaukauna 276C3,285A
Appleton 289C	Kenosha 236B
Ashland 227C1,244C2	Kewaunee 224A
Balsam Lake 285C3	LaCrosse 227C,239C2, 285A,292C3
Baradoo 235B	Ladysmith 226A
² Barron 249A	Lake Geneva 241A
Beaver Dam 237A	Lancaster 249C3
Berlin 284A	Lomira 249A
Birnamwood 225A	Madison 251B,268B,273B, 281B
Black River Falls 259C3	³ Manitowoc 221A,272A
Bloomer 236C3	Marinette 236C1
Brillion 298C3	Marshfield 293C1
Brookfield 295A	Mauston 221A
Chetek 294C2	Mayville 254A
Chippewa Falls 289C3	Medford 257C3
Cleveland 251A	Menomonee Falls 252A
Clintonville 222A	Menomonie 221C3
Columbus 263A	Merrill 281C3
Crandon 276A	Middleton 292A
Cornell 260C3	Milwaukee 227B,233B,239B, 243B,247B,256B, 271B,275B,299B
De Forest 226A	Minocqua 240C3
De Pere 240C3	Mishicot 234A
Dickeyville 266A	Monroe 229B
Dodgeville 257A	Mosinee 234C2
Durand 240A	⁴ Mount Horeb 294A
Eagle River 233C2	⁵ Mukwonago 287A
Eau Claire 231C1,264C1, 283C	Neehah- Menasha 232C3,262C2
Elk Mound 225A	Neillsville 224A,298C1
Evansville 290A	
Fond Du Lac 296A	
¹ Forestville 281A	
Fort Atkinson 297B	
Green Bay 253C1,266C	
Hallie 279C1	

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

WISCONSIN (Cont'd)

WISCONSIN (Cont'd)

	Channel No.
Nekoosa	230C3,288A
New Holstein	225A
New London	228C2
New Richmond	296C3
Oconto	296A
Omro	258C2
Oshkosh	245A
Park Falls	254C2
Peshtigo	242C2
Platteville	296A
Plymouth	283A
Port Washington	261A
Portage	240A,261A
Prairie Du Chien	32C2
Racine	221A,264B
Reedsburg	275A,285A
Rhineland	248C1,261C1
Rice Lake	242C1,256C2
Richland Center	265A
Ripon	241A
River Falls	292A
Rudolph	260C3
Sauk City	242B1
Seymour	282A
Shawano	257C3
Sheboygan	229A
Shell Lake	237C3
Siren	289A
¹ Soldiers Grove	290A
Sparta	246C1
Spencer	222A
Spooner	292A
Stevens Point	250C1,285A

	Channel No.
Sturgeon Bay	230C1,249A, 259C2
Sturtevant	284A
Sun Prairie	221A
Superior	273C1
Suring	274C1
Three Lakes	229C2
Tomah	233C3,241C2, 255C
Tomahawk	223C3
Trempealeau	288A
² Two Rivers	255A,246A
Verona	288A
Viroqua	272A
Washburn	290C1
Watertown	231B
Waukesha	291B
Waunakee	286A
Waupaca	224A
Wausau	238C,270C,300C
Wautoma	272A
Wauwatosa	279B
West Bend	223B
West Salem	261A
Whitehall	272A
Whitewater	283A, 293A
Whiting	244C2
Winneconne	280C3
Wisconsin Dells	295A
Wisconsin Rapids	277C1

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

WYOMING

WYOMING (Cont'd)

	Channel No.		Channel No.
Afton	254A	Kemmerer	297A
Albin	297C2	Lander	248C1
Buffalo	225C1	Laramie	236C,275C, 283C2,288C3,244A
Burns	270C2	Lost Cabin	256C
Casper	233C,238C,279C, 295C,273A,284A	Midwest	300A
Centennial	224A	² Mills	288A
Cheyenne	250C1,285A,260A, 264C1,292C3	³ Moorcroft	228A
¹ Chugwater	258A	Newcastle	257A
Cody	250C	Pine Bluffs	287C2
Diamondville	287C2	Pinedale	266A
Douglas	257A	Powell	233C,281C
Evanston	292A	Rawlins	224A
Gillette	245C1,264C1,249A	Riverton	226C1,230C1
Glendo	261A	Rock Springs	236C,243C,283C
Glenrock	252A	Sheridan	235C1,243C3
Green River	221C	Sundance	276C1
Greybull	262C	Thermopolis	252A,269A
Fort Bridger	257A	Torrington	2252C3
Jackson	227C,237C,245C1	Wheatland	269A
		Worland	241C2

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

U.S. TERRITORIES AND POSSESSIONS

AMERICAN SAMOA

Fagaitua 276C2
 Leone 230C1
 Pago Pago 221C3,226C1

CENTRAL MARIANAS

Saipan 230A

GARAPAN

¹Saipan 280A,258C1,262C2,
 266A

GUAM

Agana 230C2,238C2,248C2
 262C2,270C2,275C

PUERTO RICO

Aguada 288A
 Aguadilla 225B,262B
 Arecibo 293B1,297B
 Bayamon 234B,264B
 Cabo Rojo 272A
 Caguas 277B
 Camuy 275B
 Carolina 299B
 Cidra 249A
 Corozal 223B
 Culebra 254A
 Fajardo 243B

PUERTO RICO (Cont'd)

Guayama 295B
 Hormigueros 221A,291A
 Isabela 268B
 Lajas 279B
 Las Piedras 252A
 Luguillo 221A
 Manati 245B
 Maricao 241B
 Mayaguez 231B,248B,254B
 Naguabo 225A
 Ponce 227B1,266B,270B,
 286B
 Quebradillas 258A
 Rio Grande 247A
 Rio Piedras 239B
 San German 236B
 San Juan 229B,256B,260B,
 273B,284B,289B
 Santa Isabel 251A
 Utuado 281B
 Vieques 291B

VIRGIN ISLANDS

Charlotte *226A,241B1,
 Amalie 246B,250B,271B,
 *275A,282B,287B
 287
 Christiansted 228B,236B,253A
 258B,262B,285A
 Cruz Bay 267B
 Frederiksted 253A,278A

[Next Page is No. 221]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.203 AVAILABILITY OF CHANNELS.

(a) Except as provided for in paragraph (b) of this section, applications may be filed to construct FM broadcast stations only at the communities and on the channels contained in the Table of Allotments (§ 73.202(b)). Applications that fail to comply with this requirement, whether or not accompanied by a petition to amend the Table, will not be accepted for tender.*

(b) Applications filed on a first come, first served basis may propose a lower or higher class adjacent, intermediate frequency or co-channel. Applications for the modification of an existing FM broadcast station may propose a lower or higher class adjacent, intermediate frequency or co-channel, or an same class adjacent channel. In these cases, the applicant need not file a petition for rule making to amend the Table of Allotments (§ 73.202(b)) to specify the modified channel class.

NOTE: Changes in channel and/or class by application are limited to modifications on first, second and third adjacent channels, intermediate frequency (IF) channels, and co-channels which require no other changes to the FM Table of Allotments. Applications requesting such modifications must meet either the minimum spacing requirements of § 73.207 at the site specified in the application, without resort to the provisions of the Commission's Rules permitting short spaced stations as set forth in §§ 73.213 through 73.215 or demonstrate by a separate exhibit attached to the application the existence of a suitable allotment site that fully complies with §§ 73.207 and 73.315 without resort to §§ 73.213 through 73.215.

73.204 INTERNATIONAL AGREEMENTS AND OTHER RESTRICTIONS ON USE OF CHANNELS.

See §§ 73.207, 73.220 and 73.1650. (Added 83-259, 3/1/84)

*(Added 89-14, 5/1/89)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.205 ZONES.

For the purpose of allotments and assignments, the United States is divided into three zones as follows: (Revised 83-259, 3/1/84)

- (a) Zone I consists of that portion of the United States located within the confines of the following lines drawn on the United States Albers Equal Area Projection Map (based on standard parallels 29 1/2° and 45 1/2°; North American datum): Beginning at the most easterly point on the State boundary line between North Carolina and Virginia; thence in a straight line to a point on the Virginia - West Virginia boundary line located at north latitude 37°49' and west longitude 80°12'30"; thence westerly along the southern boundary lines of the States of West Virginia, Ohio, Indiana, and Illinois to a point at the junction of the Illinois, Kentucky, and Missouri State boundary lines; thence northerly along the western boundary line of the State of Illinois to a point at the junction of the Illinois, Iowa, and Wisconsin State boundary lines; thence easterly along the northern State boundary line of Illinois to the 90th meridian; thence north along this meridian to the 43.5° parallel; thence east along this parallel to the United States - Canada border; thence southerly and following that border until it again intersects the 43.5° parallel; thence east along this parallel to the 71st meridian; thence in a straight line to the intersection of the 69th meridian and the 45th parallel; thence east along the 45th parallel to the Atlantic Ocean. When any of the above lines pass through a city, the city shall be considered to be located in Zone I. (See Figure 1 of § 73.699) (Revised 66-670, 8/1/66)
- (b) Zone I-A consists of Puerto Rico, the Virgin Islands and that portion of the State of California which is located south of the 40th parallel. (Revised 64-919, 11/16/64)
- (c) Zone II consists of Alaska, Hawaii and the rest of the United States which is not located in either Zone I or Zone I-A. (Revised 64-619, 11/16/64)

73.206 ~~CLASSES OF STATIONS AND PERMISSIBLE CHANNELS.~~

EDITOR'S NOTE: Section 73.206 has been deleted. Paragraphs (b) and (c) of this section are transferred to section 73.211 and designated as paragraphs (d) and (e).

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.207 MINIMUM DISTANCE SEPARATION BETWEEN STATIONS.

(a) Except for assignments made pursuant to §§ 73.213 or 73.215, FM allotments and assignments must be separated from other allotments and assignments on the same channel (co-channel) and five pairs of on-nearby adjacent channels by not less than the minimum distances specified in paragraphs (b) and (c) of this section. The Commission will not accept petitions to amend the Table of Allotments; unless the reference points meet all of the applications for new stations, or applications to change the channel or location of existing assignments unless transmitter sites meet the minimum distance separation requirements of this section.; The Commission will not accept applications for new stations, or applications to change the channel or location of existing assignments unless transmitter sites meet the minimum distance separation requirements of this section, or such applications conform to the requirements of §§ 73.213 or 73.215. However, applications to modify the facilities of stations with short-spaced antenna locations authorized pursuant to prior waivers of the distance separation requirements may be accepted, provided that such applications propose to maintain or improve that particular spacing deficiency. Class D (secondary) assignments are subject only to the distance separation requirements contained in paragraph (b)(3) of this section. (See § 73.512 for rules governing the channel and location of Class D (secondary) assignments.)

(b) The distances listed in Tables A, B, and C apply to allotments and assignments on the same channel and each of five pairs of adjacent channels. The five pairs of adjacent channels are the first (200 kHz above and 200 kHz below the channel under consideration), the second (400 kHz above and below), the third (600 kHz above and below), the fifty-third (10.6 MHz above and below), and the fifty-fourth (10.8 MHz above and below). The distances in the Tables apply regardless of whether the proposed station class appears first or second in the "Relation" column of the table. (Added 89-107, 6/1/89)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (1) Domestic allotments and assignments must be separated from each other by not less than the distances in Table A which follows: (Added 89-107, 6/1/89)

TABLE A — MINIMUM DISTANCE SEPARATION REQUIREMENTS
IN KILOMETERS (MILES)

Relation	Co-channel	200 kHz	400/600 kHz	10.6/10.8 MHz
*A to A	115(71)	72(45)	31(19)	10(6)
*A to B1	143(89)	96(60)	48(30)	12(7)
*A to B	178(111)	113(70)	69(43)	15(9)
*A to C3	142(88)	89(55)	42(26)	12(7)
*A to C2	166(103)	106(66)	55(34)	15(9)
*A to C1	200(124)	133(83)	75(47)	22(14)
*A to C	226(140)	165(103)	95(59)	29(18)
B1 to B1	175(109)	114(71)	50(31)	14(9)
B1 to B	211(131)	145(90)	71(44)	17(11)
B1 to C3	175(109)	114(71)	50(31)	14(9)
B1 to C2	200(124)	134(83)	56(35)	17(11)
B1 to C1	233(145)	161(100)	77(48)	24(15)
B1 to C	259(161)	193(120)	105(65)	31(19)
B to B	241(150)	169(105)	74(46)	20(12)
B to C3	211(131)	145(90)	71(44)	17(11)
B to C2	241(150)	169(105)	74(46)	20(12)
B to C1	270(168)	195(121)	79(49)	27(17)
B to C	274(170)	217(135)	105(65)	35(22)
C3 to C3	153(95)	99(62)	43(27)	14(9)
C3 to C2	177(110)	117(73)	56(35)	17(11)
C3 to C1	211(131)	144(90)	76(47)	24(15)
C3 to C	237(147)	176(109)	96(60)	31(19)
C2 to C2	190(118)	130(81)	58(36)	20(12)
C2 to C1	224(139)	158(98)	79(49)	27(17)
C2 to C	249(155)	188(117)	105(65)	35(22)
C1 to C1	245(152)	177(110)	82(51)	34(21)
C1 to C	270(168)	209(130)	105(65)	41(25)
C to C	290(180)	241(150)	105(65)	48(30)

*Revised by above change number.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (2) Under the Canada-United States FM Broadcasting Agreement, domestic U.S. allotments and assignments within 320 kilometers (199 miles) of the common border must be separated from Canadian allotments and assignments by not less than the distances given in Table B, which follows. When applying Table B, U.S. Class C2 allotments and assignments are considered to be Class B; also, U.S. Class C3 allotments and assignments and U.S. Class A assignments operating with more than 3 kW ERP and 100 meters antenna HAAT (or equivalent lower ERP and higher antenna HAAT based on a class contour distance of 24 km) are considered to be Class B1. (Revised 89-232, 10/2/89)

TABLE B — MINIMUM DISTANCE SEPARATION REQUIREMENTS IN KILOMETERS
(Edit. Amdt. 12/26/84)

Relation	Co-channel		Adjacent Channels			I.F.
	0 kHz		200 kHz	400 kHz	600 kHz	10.6/10.8 MHz
A-A	132		85	45	37	8
A-B1	180		113	62	54	16
A-B	206		132	76	69	16
A-C1	239		164	98	90	32
A-C	242		177	108	100	32
B1-B1	197		131	70	57	24
B1-B	223		149	84	71	24
B1-C1	256		181	106	92	40
B1-C	259		195	116	103	40
B-B	237		164	94	74	24
						8
B-C1	271		195	115	95	40
B-C	274		209	125	106	40
C1-C1	292		217	134	101	48
C1-C	302		230	144	111	48
C-C	306	241	153	113	48	

- (3) Under the 1992 Mexico-United States FM Broadcasting Agreement, domestic U.S. assignments or allotments within 320 kilometers (199 miles) of the common border must be separated from Mexican assignments or allotments by not less than the distances given in Table C in this paragraph (b)(3). When applying Table C—
- (i) U.S. or Mexican assignments or allotments which have been notified internationally as Class A are limited to a maximum of 3.0 kW ERP at 100 meters HAAT, or the equivalent;

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (ii) U.S. or Mexican assignments or allotments which have been notified internationaloly as Class AA are limited to a maximum of 6.0 kW ERP at 100 meters HAAT, or the equivalent;
- (iii) U.S. Class C3 assignments or allotments are considered Class B1;
- (iv) U.S. Class C2 assignments or allotments are considered Class B; and
- (v) Class C1 assignments or allotments assume maximum facilities of 100 kW ERP at 300 meters HAAT. However, U.S. Class C1 stations may not, in any event, exceed the domestic U.S. limit of 100 kW ERP at 299 meters HAAT, or the equivalent.

**TABLE C — MINIMUM DISTANCE SEPARATION REQUIREMENTS
IN KILOMETERS**

Relation	Co-channel	200 kHz	400 kHz or 600 kHz	10.6 or 10.8 MHz (I.F.)
A to A	100	61	25	8
A to AA	111	68	31	9
A to B1	138	88	48	11
A to B	163	105	65	14
A to C1	196	129	74	21
A to C	210	161	94	28
AA to AA	115	72	31	10
AA to B1	143	96	48	12
AA to B	178	125	69	15
AA to C1	200	133	75	22
AA to C	226	165	95	29
B1 to B1	175	114	50	14
B1 to B	211	145	71	17
B1 to C1	233	161	77	24
B1 to C	259	193	96	31
B to B	237	164	65	20
B to C1	270	195	79	27
B to C	270	215	98	35
C1 to C1	245	177	82	34
C1 to C	270	209	102	41
C to C	290	228	105	48

[Next Page is No. 226a]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(c) The distances listed below apply only to allotments and assignments on Channel 253 (98.5 MHz). The Commission will not accept petitions to amend the Table of Allotments, applications for new stations, or applications to change the channel or location of existing assignments where the following minimum distances (between transmitter sites, in kilometers) from any TV Channel 6 allotment or assignment are not met: (Added 89-107, 6/1/89)

**MINIMUM DISTANCE SEPARATION FROM
TV CHANNEL 6 (82-88 MHz)**

FM Class	TV Zone I	TV Zones II & III
A	17	22
B1	19	23
B	22	26
C3	19	23
C2	22	26
C1	29	33
C	36	41

(Revised 89-232, 10/2/89)

[Next Page is No. 226.1]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.208 REFERENCE POINTS AND DISTANCE COMPUTATIONS.

- (a) (1) The following reference points must be used to determine distance separation requirements when petitions to amend the Table of Allotments (§ 73.202(b)) are considered:
- (i) First, transmitter sites if authorized; or if proposed in applications with cutoff protection pursuant to paragraph (a)(3) of this section;*
 - (ii) Second, reference coordinates designated by the FCC;*
 - (iii) Third, coordinates listed in the United States Department of Interior publication entitled Index to the National Atlas of the United States of America; or*
 - (iv) Last, coordinates of the main post office.*
- (The community's reference points for which the petition is submitted will normally be the coordinates listed in the above publication.)
- (2) When the distance between communities is calculated using community reference points and it does not meet the minimum separation requirements of § 73.207, the channel may still be allotted if a transmitter site is available that would meet the minimum separation requirements and still permit the proposed station to meet the minimum field strength requirements of § 73.315. A showing indicating the availability of a suitable site should be submitted with the petition. In cases where a station is not authorized in a community or communities and the proposed channel cannot meet the separation requirement, a showing should also be made indicating adequate distance between suitable transmitter sites for all communities. (Added 83-259, 3/1/84)
- (3) Petitions to amend the Table of Allotments that do not meet minimum distance separation requirements to transmitter sites specified in pending applications will not be considered unless they are filed no later than:
- (i) The last day of a filing window if the application is for a new FM facility or a major change in the non-reserved band and is filed during a filing window established under section 73.3564(d)(3); or (Added 02-329, 9/11/92)

*(Revised 92-329, 9/11/92)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (ii) The cut-off date established in a Commission Public Notice under § 73.3564(d) and 73.3573(e) if the application is for a new FM facility or a major change in the reserved band; or*
- (iii) The date of receipt of all other types of FM applications. If an application is amended so as to create a conflict with a petition for rule making filed prior to the date the amendment is filed, the amended application will be treated as if filed on the date of the amendment for purposes of this paragraph (a)(3).*

NOTE:

If the filing of a conflicting FM application renders an otherwise timely filed counterproposal unacceptable, the counterproposal may be considered in the rulemaking proceeding if it is amended to protect the site of the previously filed FM application within 15 days after being placed on the Public Notice routinely issued by the staff concerning the filing of counterproposals. No proposals involving communities not already included in the proceeding can be introduced during the reply comment period as a method of resolving conflicts. The counterproponent is required to make a showing that, at the time it filed the counterproposal, it did not know, and could not have known by exercising due diligence, of the pendency of the conflicting FM application.

*(Revised 92-329, 9/11/92)

[Next Page is No. 227]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(b) Station separations in licensing proceedings shall be determined by the distance between the coordinates of the proposed transmitter site in one community and

- (1) The coordinates of an authorized transmitter site for the pertinent channel in the other community; or where such transmitter site is not available for use as a reference point, (Revised 64-920, 10/19/64)
- (2) Reference coordinates designated by the FCC; or, if none are designated. (Added 92-329, 9/11/92)
- (3) The coordinates of the other community as listed in the publication listed in paragraph (a) of this section; or, if not contained therein. (Revised 92-329, 9/11/92)
- (4) The coordinates of the main post office of such other community. (Revised 92-329, 9/11/92)
- (5) In addition, where there are pending applications in other communities which, if granted, would have to be considered in determining station separations, the coordinates of the transmitter sites proposed in such applications must be used to determine whether the requirements with respect to minimum separations between the proposed stations in the respective cities have been met. (Revised 92-329, 9/11/92)

(c) The method given in this paragraph shall be used to compute the distance between two reference points, except that, for computation of distance involving stations in Canada and Mexico, the method for distance computation specified in the applicable international agreement shall be used instead. The method set forth in this paragraph is valid only for distances not exceeding 475 km (295 miles). (Added 87-296, 11/9/87)

- (1) Convert the latitudes and longitudes of each reference point from degree-minute-second format to degree-decimal format by dividing minutes by 60 and seconds by 3600, then adding the results to degrees. (Revised 89-43, 4/13/89)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (2) Calculate the middle latitude between the two reference points by averaging the two latitudes as follows:*

$$ML=(LAT1_{dd}+LAT2_{dd}) \div 2$$

- (3) Calculate the number of kilometers per degree latitude difference for the middle latitude calculated in paragraph (c)(2) as follows:*

$$KPD_{lat}=111.13209-0.56605 \cos(2ML)+0.00120 \cos(4ML)$$

- (4) Calculate the number of kilometers per degree longitude difference for the middle latitude calculated in paragraph (c)(2) as follows:*

$$KPD_{lon}=111.41513 \cos(ML)-0.09455 \cos(3ML)+0.00012 \cos(5ML)$$

- (5) Calculate the North-South distance in kilometers as follows:*

$$NS=KPD_{lat}(LAT1_{dd}-LAT2_{dd})$$

- (6) Calculate the East-West distance in kilometers as follows:*

$$EW=KPD_{lon}(LON1_{dd}-LON2_{dd})$$

- (7) Calculate the distance between the two reference points by taking the square root of the sum of the squares of the East-West and North-South distances as follows:*

$$DIST=(NS^2+EW^2)^{0.5}$$

- (8) Round the distance to the nearest kilometer.*

- (9) Terms used in this section are defined as follows:*

- (i) $LAT1_{dd}$ and $LON1_{dd}$ =the coordinates of the first reference point in degree-decimal format.*
- (ii) $LAT2_{dd}$ and $LON2_{dd}$ =the coordinates of the second reference point in degree-decimal format.*
- (iii) ML =the middle latitude in degree-decimal format.*
- (iv) KPD_{lat} =the number of kilometers per degree of latitude at a given middle latitude.*

(*Added 87-296, 11/9/87)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (v) KPD_{lon} = the number of kilometers per degree of longitude at a given middle latitude. (Added 87-296, 11/9/87)
- (vi) NS = the North-South distance in kilometers. (Added 87-296, 11/9/87)
- (vii) EW = the East-West distance in kilometers. (Added 87-296, 11/9/87)
- (viii) DIST = the distance between the two reference points, in kilometers. (Added 87-296, 11/9/87)

73.209 PROTECTION FROM INTERFERENCE.

(a) Permittees and licensees of FM broadcast stations are not protected from any interference which may be caused by the grant of a new station, or of authority to modify the facilities of an existing station, in accordance with the provisions of this subpart. However, they are protected from interference caused by Class D (secondary) noncommercial educational FM stations. See § 73.509. (Revised 78-385, 10/13/78)

~~*(b) The nature and extent of the protection from interference afforded FM broadcast stations operating on Channels 221-300 is limited solely to the protection that results from the distance separation requirements and the rules governing maximum power and antenna heights. These rules are specified in this subpart. to that which results when assignments are made in accordance with the rules in this subpart.~~

~~*(c) When the FCC determines that grant of an application would serve the public interest, convenience, and necessity, an antenna location may be specified in a designated antenna farm area that results in separations less than those specified in this subpart. All FM allotments and assignments must be afforded protection from interference equivalent to the protection afforded under the minimum separations specified in this subpart.~~

73.210 STATION CLASSES.

(a) The rules applicable to a particular station, including minimum and maximum facilities requirements, are determined by its class. Possible class designations depend upon the zone in which the station's transmitter is located, or proposed to be located. The zones are defined in § 73.205. Allotted station classes are indicated in the Table of Allotments, § 73.202. Class A, B1 and B stations may be authorized in Zones I and I-A. Class A, C3, C2, C1, and C stations may be authorized in Zone II. (Revised 89-107, 6/1/89)

**Effective date of these changes are still pending.*

73.210(b)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(b) The power and antenna height requirements for each class are set forth in § 73.211. If a station has an ERP and an antenna HAAT such that it cannot be classified using the maximum limits and minimum requirements in § 73.211, its class shall be determined using the following procedure: (Added 87-296, 11/9/87)

- (1) Determine the reference distance of the station using the procedure in paragraph (b)(1)(i) of § 73.211. If this distance is less than or equal to 28 km, the station is Class A; otherwise, (Revised 89-232, 10/2/89)
- (2) For a station in Zone I or Zone I-A, except for Puerto Rico and the Virgin Islands:
 - (i) If this distance is greater than 28 km and less than or equal to 39 km, the station is Class B1. (Revised 89-232, 10/2/89)
 - (ii) If this distance is greater than 39 km and less than or equal to 52 km, the station is Class B.
- (3) For a station in Zone II:
 - (i) If this distance is greater than 28 km and less than or equal to 39 km, the station is Class C3. (Revised 89-232, 10/2/89)
 - (ii) If this distance is greater than 39 km and less than or equal to 52 km, the station is Class C2. (Added 89-107, 6/1/89)
 - (iii) If this distance is greater than 52 km and less than or equal to 72 km, the station is Class C1. (Added 89-107, 6/1/89)
 - (iv) If this distance is greater than 72 km and less than or equal to 92 km, the station is Class C. (Added 89-107, 6/1/89)
- (4) For a station in Puerto Rico or the Virgin Islands:
 - (i) If this distance is less than or equal to 42 km, the station is Class A. (Added 87-296, 11/9/87)
 - (ii) If this distance is greater than 42 km and less than or equal to 46 km, the station is Class B1. (Added 87-296, 11/9/87)
 - (iii) If this distance is greater than 46 km and less than or equal to 78 km, the station is Class B.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.211 POWER AND ANTENNA HEIGHT REQUIREMENTS.

(a) MINIMUM REQUIREMENTS.

- (1) Except as provided in paragraphs (a)(3) and (b)(2) of this section, FM stations must operate with a minimum effective radiated power (ERP) as follows: (Added 89-107, 6/1/89)
 - (i) The minimum ERP for Class A stations is 0.1 kW. (Added 89-107, 6/1/89)
 - (ii) The ERP for Class B1 stations must exceed 3 6 kW.
 - (iii) The ERP for Class B stations must exceed 25 kW. (Added 89-107, 6/1/89)
 - (iv) The ERP for Class C3 stations must exceed 3 6 kW.
 - (v) The ERP for Class C2 stations must exceed 25 kW. (Added 89-107, 6/1/89)
 - (vi) The ERP for Class C1 stations must exceed 50 kW. (Added 89-107, 6/1/89)
 - (vii) The minimum ERP for Class C stations is 100 kW. (Added 89-107, 6/1/89)
- (2) Class C stations must have an antenna height above average terrain (HAAT) of at least 300 meters (984 feet). No minimum HAAT is specified for Classes A, B1, C3, C2, or C1 stations. (Added 89-107, 6/1/89)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (3) Stations of any class except Class A may have an ERP less than that specified in paragraph (a)(1) of this section, provided that the reference distance, determined in accordance with paragraph (b)(1)(i) of this section, exceeds the distance to the class contour for the next lower class. Class A stations may have an ERP less than 100 watts provided that the reference distance, determined in accordance with paragraph (b)(1)(i) of this section, equals or exceeds 6 kilometers. (Added 88-152, 5/13/88)

(b) **MAXIMUM LIMITS.**

- (1) Except for stations located in Puerto Rico or the Virgin Islands, the maximum ERP in any direction, reference HAAT, and distance to the class contour for each FM station class are listed below: (Added 89-107, 6/1/89)

Station class	Maximum ERP in meters (ft.)	Reference HAAT distance in kilometers	Class contour
A*	6 kW (7.8 dBk)	100(328)	28
B1	25 kW (14.0 dBk)	100(328)	39
B	50 kW (17.0 dBk)	150(492)	52
C3	25 kW (14.0 dBk)	100(328)	39
C2	50 kW (17.0 dBk)	150(492)	52
C1	100 kW (20.0 dBk)	299(981)	72
C	100 kW (20.0 dBk)	600(1968)	92

- (i) The reference distance of a station is obtained by finding the predicted distance to the 1 mV/m contour using Figure 1 of § 73.333 and then rounding to the nearest kilometer. Antenna HAAT is determined using the procedure in § 73.313. If the HAAT so determined is less than 30 meters (100 feet), a HAAT of 30 meters must be used when finding the predicted distance to the 1 mV/m contour. (Added 88-152, 5/13/88)

**Revised by above change number.*

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (ii) If a station's ERP is equal to the maximum for its class, its antenna HAAT must not exceed the reference HAAT, regardless of the reference distance. For example, a Class A station operating with 3 6 kW ERP may have an antenna HAAT of 100 meters, but not 101 meters, even though the reference distance is ~~24~~ 28 km in both cases.
 - (iii) Except as provided in paragraph (b)(3) of this section, no station will be authorized in Zone I or I-A with an ERP equal to 50 kW and a HAAT exceeding 150 meters. No station will be authorized in Zone II with an ERP equal to 100 kW and a HAAT exceeding 600 meters. (Added 88-152, 5/13/88)
- (2) If a station has an antenna HAAT greater than the reference HAAT for its class, its ERP must be lower than the class maximum such that the reference distance does not exceed the class contour distance. If the antenna HAAT is so great that the station's ERP must be lower than the minimum ERP for its class (specified in paragraphs (a)(1) and (a)(3) of this section), that lower ERP will become the minimum for that station. (Added 88-152, 5/13/88)
- (3) For stations located in Puerto Rico or the Virgin Islands, the maximum ERP in any direction, reference HAAT, and distance to the class contour for each FM station class are listed below: (Added 89-107, 6/1/89)

Station class	Maximum ERP	Reference HAAT in meters (ft.)	Class contour distance in kilometers
* A	6 kW (7.8 dBk)	240(787)	42
B1	25 kW (14.0 dBk)	150(492)	46
B	50 kW (17.0 dBk)	472(1549)	78

*Revised by above change number.

73.211(c)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(c) EXISTING STATIONS.

Stations authorized prior to March 1, 1984 that do not conform to the requirements of this section may continue to operate as authorized. Stations operating with facilities in excess of those specified in paragraph (b) of this section may not increase their effective radiated powers or extend their 1 mV/m field strength contour beyond the location permitted by their present authorizations. The provisions of this section will not apply to applications to increase facilities for those stations operating with less than the minimum power specified in paragraph (a) of this section. (Added 88-152, 5/13/88)

73.212 ADMINISTRATIVE CHANGES IN AUTHORIZATIONS.

(a) In the issuance of FM broadcast station authorizations, the Commission will specify the transmitter output and effective radiated power in accordance with the following tabulation:

POWER (WATTS OR KW)	ROUNDED OUT TO NEAREST FIGURE (WATTS OR KW)
1 to 3	.05
3 to 10	.1
10 to 30	.5
30 to 100	1
100 to 300	5
300 to 1,000	10

(b) Antenna heights above average terrain will be rounded out to the nearest meter. (Revised 83-259, 3/1/84)

[Next Page is No. 234.1]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.213 GRANDFATHERED SHORT-SPACED STATIONS.

(a) Stations at locations authorized prior to November 16, 1964, that did not meet the separation distances required by § 73.207 and have remained continuously short-spaced since that time may be modified or relocated with respect to such short-spaced stations, provided that (i) any area predicted to receive interference lies completely within any area currently predicted to receive co-channel or first-adjacent channel interference as calculated ~~area previously receiving interference free service would receive co-channel or first-adjacent channel interference as predicted~~ in accordance with paragraph (a)(1) of this section, or that (ii) a showing is provided pursuant to paragraph (a)(2) of this section that demonstrates that the public interest would be served by the proposed changes.

- (1) The F(50,50) curves in Figure 1 of § 73.333 are to be used in conjunction with the proposed effective radiated power and antenna height above average terrain, as calculated pursuant to § 73.313(c), (d)(2) and (d)(3), using data for as many radials as necessary, to determine the location of the desired (service) field strength. The F(50,10) curves in Figure 1a of § 73.333 are to be used in conjunction with the proposed effective radiated power and antenna height above average terrain, as calculated pursuant to § 73.313(c), (d)(2) and (d)(3), using data for as many radials as necessary, to determine the location of the undesired (interfering) field strength. Predicted interference is defined to exist only for locations where the desired (service) field strength exceeds 0.5 mV/m (54 dBu) for a Class B station, 0.7 mV/m (57 dBu) for a Class B1 station, and 1 mV/m (60 dBu) for any other class of station. (Added 97-276, 11/25/97)
 - (i) Co-channel interference is predicted to exist, for the purpose of this section, at all locations where the undesired (interfering station) F(50,10) field strength exceeds a value 20 dB below the desired (service) F(50,50) field strength of the station being considered (e.g., where the protected field strength is 60 dBu, the interfering field strength must be 40 dBu or more for predicted interference to exist). (Added 97-276, 11/25/97)
 - (ii) First-adjacent channel interference is predicted to exist, for the purpose of this section, at all locations where the undesired (interfering station) F(50,10) field strength exceeds a value 6 dB below the desired (service) F(50,50) field strength of the station being considered (e.g., where the protected field strength is 60 dBu, the interfering field strength must be 54 dBu or more for predicted interference to exist). (Added 97-276, 11/25/97)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (2) For co-channel and first-adjacent channel stations, a showing that the public interest would be served by the changes proposed in an application must include exhibits demonstrating that the total area and population subject to co-channel or first-adjacent channel interference, caused and received, would be maintained or decreased. In addition, the showing must include exhibits demonstrating that the area and the population subject to co-channel or first-adjacent channel interference caused by the proposed facility to each short-spaced station individually is not increased. In all cases, the applicant must also show that any area predicted to lose service as a result of new co-channel or first-adjacent-channel interference has adequate aural service remaining. For the purpose of this section, adequate service is defined as 5 or more aural services (AM or FM).
- (3) For co-channel and first-adjacent-channel stations, a copy of any application proposing interference caused in any areas where interference is not currently caused must be served upon the licensee(s) of the affected short-spaced station(s).
- (4) For stations covered by this paragraph (a), there are no distance separation or interference protection requirements with respect to second-adjacent and third-adjacent channel short-spacings that have existed continuously since November 16, 1964.

(b) Stations at locations authorized prior to May 17, 1989, that did not meet the IF separation distances required by §73.207 and have remained short-spaced since that time may be modified or relocated provided that the overlap area of the two stations' 36 mV/m field strength contours is not increased. (Added 89-62, 5/17/89)

(c) Short spacings involving at least one Class A allotment or authorization. Stations that became short spaced on or after November 16, 1964 (including stations that do not meet the minimum distance separation requirements of paragraph (c)(1) of this section and that propose to maintain or increase their existing distance separations) may be modified or relocated in accordance with paragraph (c)(1) or (c)(2) of this section, except that this provision does not apply to stations that became short spaced by grant of applications filed after October 1, 1989, or filed pursuant to § 73.215. If the reference coordinates of an allotment are short spaced to an authorized facility or another allotment (as a result of the revision of § 73.207 in the Second Report and Order in MM Docket No. 88-375), an application for the allotment may be authorized, and subsequently modified after grant, in accordance with paragraph (c)(1) or (c)(2) of this section only with respect to such short spacing. No other stations will be authorized pursuant to these paragraphs. (Added 91-128, 7/15/91)

[Next Page is No. 234.2a]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(1) **APPLICATIONS FOR AUTHORIZATION UNDER REQUIREMENTS EQUIVALENT TO THOSE OF PRIOR RULES.** (Added 89-232, 10/2/89)

Each application for authority to operate a Class A station with no more than 3000 watts ERP and 100 meters antenna HAAT (or equivalent lower ERP and higher antenna HAAT based on a class contour distance of 24 km) must specify a transmitter site that meets the minimum distance separation requirements in this* paragraph. Each application for authority to operate a Class A station with more than 3000 watts ERP (up to a maximum of 5800 watts), but with an antenna HAAT lower than 100 meters such that the distance to the predicted 0.05 mV/m (34 dBuV/m) F(50,10) field strength contour does not exceed 98 km must specify a transmitter site that meets the minimum distance separation requirements in this paragraph. Each application for authority to operate an FM station of any class other than Class A must specify a transmitter site that meets the minimum distance separation requirements in this paragraph with respect to Class A stations operating pursuant to this paragraph or paragraph (c)(2) of this section, and that meets the minimum distance separation requirements of § 73.207 with respect to all other stations. (Added 89-232, 10/2/89)

MINIMUM DISTANCE SEPARATION REQUIREMENTS IN KILOMETERS (MILES)

(Added 89-232, 10/2/89)

Relation	Co-channel	200 kHz	400/600 kHz	10.6/10.8 MHz
A to A	105(65)	64(40)	27(17)	8(5)
A to B1	138(86)	88(55)	48(30)	11(6)
A to B	163(101)	105(65)	69(43)	14(9)
A to C3	138(86)	84(52)	42(26)	11(6)
A to C2	163(101)	105(65)	55(34)	14(9)
A to C1	196(122)	129(80)	74(46)	21(13)
A to C	222(138)	161(100)	94(58)	28(17)

(Added 89-232, 10/2/89)

[Next Page is No. 234.3]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(2) **APPLICATIONS FOR AUTHORIZATION OF CLASS A FACILITIES GREATER THAN 3000 WATTS ERP AND 100 METERS HAAT.**

Each application to operate a Class A station with an ERP and HAAT such that the reference distance would exceed 24 kilometers must contain an exhibit demonstrating the consent of the licensee of each co-channel, first, second or third adjacent channel station (for which the requirements of § 73.207 are not met) to a grant of that application. Each such application must specify a transmitter site that meets the applicable IF-related channel distance separation requirements of § 73.207. Applications that specify a new transmitter site which is short-spaced to an FM station other than another Class A station which is seeking a mutual increase in facilities may be granted only if no alternative fully-spaced site or less short-spaced site is available. Licensees of Class A stations seeking mutual increases in facilities need not show that a fully spaced site or less short-spaced site is available. Applications submitted pursuant to the provisions of this paragraph may be granted only if such action is consistent with the public interest. (Revised 91-128, 7/15/91)

73.215 CONTOUR PROTECTION FOR SHORT-SPACED ASSIGNMENTS.

The Commission will accept applications that specify short-spaced antenna locations (locations that do not meet the domestic co-channel and adjacent channel minimum distance separation requirements of § 73.207); Provided that, such applications propose contour protection, as defined in paragraph (a) of this section, with all short-spaced assignments, applications and allotments, and meet the other applicable requirements of this section. Each application to be processed pursuant to this section must specifically request such processing on its face, and must include the necessary exhibit to demonstrate that the requisite contour protection will be provided. Such applications may be granted when the Commission determines that such action would serve the public interest, convenience, and necessity. (Revised 88-406, 6/26/89)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(a) CONTOUR PROTECTION.

Contour protection, for the purpose of this section, means that on the same channel and on the first, second and third adjacent channels, the predicted interfering contours of the proposed station do not overlap the predicted protected contours of other short-spaced assignments, applications and allotments, and the predicted interfering contours of other short-spaced assignments, applications and allotments do not overlap the predicted protected contour of the proposed station. (Revised 88-406, 6/26/89)

- (1) The protected contours, for the purpose of this section, are defined as follows. For all class B and B1 stations on Channels 221 through 300 inclusive, the F(50,50) field strengths along the protected contours are 0.5 mV/m (54 dB μ) and 0.7 mV/m (57 dB μ), respectively. For all other stations, the F(50,50) field strength along the protected contour is 1.0 mV/m (60 dB μ). (Revised 88-406, 6/26/89)
- (2) The interfering contours, for the purpose of this section, are defined as follows. For co-channel stations, the F(50,10) field strength along the interfering contour is 20 dB lower than the F(50,50) field strength along the protected contour for which overlap is prohibited. For first adjacent channel stations (± 200 kHz), the F(50,10) field strength along the interfering contour is 6 dB lower than the F(50,50) field strength along the protected contour for which overlap is prohibited. For both second and third adjacent channel stations (± 400 kHz and ± 600 kHz), the F(50,10) field strength along the interfering contour is 420 dB higher than the F(50,50) field strength along the protected contour for which overlap is prohibited. ~~For third adjacent channel stations (± 600 kHz), the F(50,10) field strength along the interfering contour is 40 dB or higher than the F(50,50) field strength along the protected contour for which overlap is prohibited.~~

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (3) The locations of the protected and interfering contours of the proposed station and the other short-spaced assignments, applications and allotments must be determined in accordance with the procedures of paragraphs (c), (d)(2) and (d)(3) of § 73.313, using data for as many radials as necessary to accurately locate the contours. (Revised 88-406, 6/26/89)
 - (4) Stations in Puerto Rico and the Virgin Islands may submit application for short-spaced locations provided the predicted distance to their 1 mV/m field strength contour is not extended toward the 1 mV/m field strength contour of any short-spaced station.
- (b) Applicants requesting short-spaced assignments pursuant to this section must take into account the following factors in demonstrating that contour protection is achieved: (Revised 88-406, 6/26/89)
- (1) The ERP and antenna HAAT of the proposed station in the direction of the contours of other short-spaced assignments, applications and allotments. If a directional antenna is proposed, the pattern of that antenna must be used to calculate the ERP in particular directions. See §73.316 for additional requirements for directional antennas. (Revised 88-406, 6/26/89)
 - (2) The ERP and antenna HAAT of other short-spaced assignments, applications and allotments in the direction of the contours of the proposed station. The ERP and the antenna HAATs in the directions of concern must be determined as follows: (Revised 88-406, 6/26/89)
 - (i) For vacant allotments, contours are based on the presumed use, at the allotment's reference point, of the maximum ERP that could be authorized for the station class of the allotment, and antenna HAATs in the directions of concern that would result from a non-directional antenna mounted at a standard eight-radial antenna HAAT equal to the reference HAAT for the station class of the allotment. (Revised 88-406, 6/26/89)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (ii) For existing stations that were not authorized pursuant to this section, including stations with authorized ERP that exceeds the maximum ERP permitted by § 73.211 for the standard eight-radial antenna HAAT employed, and for applications not requesting authorization pursuant to this section, contours are based on the presumed use of the maximum ERP for the applicable station class (as specified in § 73.211), and the antenna HAATs in the directions of concern that would result from a non-directional antenna mounted at a standard eight-radial antenna HAAT equal to the reference HAAT for the applicable station class, without regard to any other restrictions that may apply (e.g. zoning laws, FAA constraints, application of § 73.213). (Added 88-406, 6/26/89)

- (iii) For stations authorized pursuant to this section, except stations with authorized ERP that exceeds the maximum ERP permitted by § 73.211 for the standard eight-radial antenna HAAT employed, contours are based on the use of the authorized ERP in the directions of concern, and HAATs in the directions of concern derived from the authorized standard eight-radial antenna HAAT. For stations with authorized ERP that exceeds the maximum ERP permitted by §73.211 for the standard eight-radial antenna HAAT employed, authorized under this section, contours are based on the presumed use of the maximum ERP for the applicable station class (as specified in §73.211), and antenna HAATs in the directions of concern that would result from a non-directional antenna mounted at a standard eight-radial antenna HAAT equal to the reference HAAT for the applicable station class, without regard to any other restrictions that may apply. (Added 88-406, 6/26/89)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (iv) For applications containing a request for authorization pursuant to this section, except for applications to continue operation with authorized ERP that exceeds the maximum ERP permitted by § 73.211 for the standard eight-radial antenna HAAT employed, contours are based on the use of the proposed ERP in the directions of concern, and antenna HAATs in the directions of concern derived from the proposed standard eight-radial antenna HAAT. For applications to continue operation with an ERP that exceeds the maximum ERP permitted by § 73.211 for the standard eight-radial antenna HAAT employed, if processing is requested under this section, contours are based on the presumed use of the maximum ERP for the applicable station class (as specified in § 73.211), and antenna HAATs in the directions of concern that would result from a non-directional antenna mounted at a standard eight-radial antenna HAAT equal to the reference HAAT for the applicable station class, without regard to any other restrictions that may apply. (Revised 88-406, 6/26/89)

NOTE TO PARAGRAPH (b): Applicants are cautioned that the antenna HAAT in any particular direction of concern will not usually be the same as the standard eight-radial antenna HAAT or the reference HAAT for the station class. (Revised 88-406, 6/26/89)

- (c) Applications submitted for processing pursuant to this section are not required to propose contour protection of any assignment, application or allotment for which the minimum distance separation requirements of § 73.207 are met, and may, in the directions of those assignments, applications and allotments, employ the maximum ERP permitted by § 73.211 for the standard eight-radial antenna HAAT employed. (Revised 88-406, 6/26/89)
- (d) Stations authorized pursuant to this section may be subsequently authorized on the basis of compliance with the domestic minimum separation distance requirements of § 73.207, upon filing of an FCC Form 301 or FCC Form 340 (as appropriate) requesting a modification of authorization. (Revised 88-406, 6/26/89)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (e) The Commission will not accept applications that specify a short-spaced antenna location for which the following minimum distance separation requirements, in kilometers (miles), are not met: (Added 91-273, 12/19/91)

Relation	Co-channel	200 kHz	400/600 kHz
A to A	92(57)	49(30)	29(18)
A to B1	119(74)	72(45)	46(29)
A to B	143(89)	96(60)	67(42)
A to C3	119(74)	72(45)	40(25)
A to C2	143(89)	89(55)	53(33)
A to C1	178(111)	111(69)	73(45)
A to C	203(126)	142(88)	93(58)
B1 to B1	143(89)	96(60)	48(30)
B1 to B	178(111)	114(71)	69(43)
B1 to C3	143(89)	96(60)	48(30)
B1 to C2	175(109)	114(71)	55(34)
B1 to C1	200(124)	134(83)	75(47)
B1 to C	233(145)	165(103)	95(59)
B to B	211(131)	145(90)	71(44)
B to C3	178(111)	114(70)	69(43)
B to C2	211(131)	145(90)	71(44)
B to C1	241(150)	169(105)	77(48)
B to C	270(168)	195(121)	105(65)
C3 to C3	142(88)	89(55)	42(26)
C3 to C2	166(103)	106(66)	55(34)
C3 to C1	200(124)	133(83)	75(47)
C3 to C	226(140)	165(103)	95(59)
C2 to C2	177(110)	117(73)	56(35)
C2 to C1	211(131)	144(90)	76(47)
C2 to C	237(147)	176(109)	96(60)
C1 to C1	224(139)	158(98)	79(49)
C1 to C	249(155)	188(117)	105(65)
C to C	270(168)	209(130)	105(65)

~~NOTE TO PARAGRAPH (e): Until further Notice, the Commission will not accept applications that specify short-spaced antenna locations pursuant to this section wherein the proposed distance separation is less than the normally required distance separation in § 73.207 by more than 8 kilometers (5 miles). This temporary restriction will be removed when the Commission determines that available resources are sufficient to allow the timely processing of additional applications proposing short-spaced locations using contour protection. (Revised 88-406, 6/26/89)~~

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.220 RESTRICTIONS ON USE OF CHANNELS.

(a) The frequency 89.1 MHz (channel 206) is reserved in the New York City metropolitan area for the use of the United Nations with the equivalent of an antenna height of 150 meters (492 feet) above average terrain and effective radiated power of 20 kW's, and the FCC will make no assignments which would cause objectionable interference with such use.

(b) In Alaska, FM broadcast stations operating on Channels 221-300 (92.1-107.9 MHz) shall not cause harmful interference to and must accept interference from non-Government fixed operations authorized prior to January 1, 1982. (Revised 82-283, 8/11/82)

[Next Page is No. 235]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.232 TERRITORIAL EXCLUSIVITY.

No licensee of an FM broadcast station shall have any arrangement with a network organization which prevents or hinders another station serving substantially the same area from broadcasting the network's programs not taken by the former station, or which prevents or hinders another station serving a substantially different area from broadcasting any program of the network organization; Provided, however, That this section does not prohibit arrangements under which the station is granted first call within its primary service area upon the network's programs. The term "network organization" means any organization originating program material, with or without commercial messages, and furnishing the same to stations interconnected so as to permit simultaneous broadcast by all or some of them. However, arrangements involving only stations under common ownership, or only the rebroadcast by one station ~~or of~~ programming from another with no compensation other than a lump-sum payment by the station rebroadcasting, are not considered arrangements with a network organization. The term "arrangement" means any contract, arrangement or understanding, express or implied.

73.239 USE OF COMMON ANTENNA SITE.

No FM broadcast station license or renewal of FM broadcast station license will be granted to any person who owns, leases, or controls a particular site which is peculiarly suitable for FM broadcasting in a particular area and (a) which is not available for use by other FM broadcast station licenses; and (b) no other comparable site is available in the area; and (c) where the exclusive use of such site by the applicant or licensee would unduly limit the number of FM broadcast stations that can be authorized in a particular area or would unduly restrict competition among FM broadcast stations.

73.242 [DELETED] [Deleted 86-132, 5/12/86]

[Next Page is No. 237]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.258 INDICATING INSTRUMENTS.

(a) Each FM broadcast station shall be equipped with indicating instruments which conform with the specifications described in § 73.1215 for determining power by the indirect method; for indicating the relative amplitude of the transmission line radio frequency current, voltage, or power; and with such other instruments as are necessary for the proper adjustment, operation, and maintenance of the transmitting system. (Added 76-789, 9/8/76)

(b) {Reserved}

(c) {Reserved}

(d) (b) The function of each instrument shall be clearly and permanently shown in the instrument itself or on the panel immediately adjacent thereto.

(e) (c) In the event that any one of these indicating instruments becomes defective when no substitute which conforms with the required specifications is available, the station may be operated without the defective instrument pending its repair or replacement for a period not in excess of 60 days without further authority of the FCC: Provided, That, if the defective instrument is the transmission line meter of a station which determines the output power by the direct method, the operating power shall be determined by the indirect method in accordance with § 73.267 (c) during the entire time the station is operated without the transmission line meter. (Revised 83-338, 9/19/83)

[Next Page is No. 239]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(d) If conditions beyond the control of the licensee prevent the restoration of the meter to service within the above allowed period, a n informal letter request in accordance with § 73.3549 may be filed with the FCC, Attention: Audio Services Division, Mass Media Bureau, in Washington, DC ~~Engineer in Charge of the radio district in which the station is located~~ for such additional time as may be required to complete repairs of the defective instrument.

73.265 [DELETED]. [Edit. Amdt. 10/1/85]

73.267 DETERMINING OPERATING POWER.

(a) The operating power of each FM station is to be determined by either the direct or indirect method. (Added 79-609, 10/22/79)

(b) DIRECT METHOD.

The direct method of power determination for an FM station uses the indications of a calibrated transmission line meter (responsive to relative voltage, current, or power) located at the RF output terminals of the transmitter. This meter must be calibrated whenever there is any indication that the calibration is inaccurate or whenever any component of the metering circuit is repaired or replaced. The calibration must cover, as a minimum, the range from 90% or 105% of authorized power. The meter calibration may be checked by measuring the power at the transmitter terminals while either: (Added 84-628, 12/12/84)

- (1) Operating the transmitter into the transmitting antenna, and determining actual operating power by the indirect method described in § 73.267(c); or (Added 84-628, 12/12/84)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (2) Operating the transmitter into a load (of substantially zero reactance and a resistance equal to the transmission line characteristic impedance) and using an electrical device (within $\pm 5\%$ accuracy) or temperature and coolant flow indicator (within $\pm 4\%$ accuracy) to determine the power. (Added 84-628, 12/12/84)
- (3) The calibration must cover, as a minimum, the range from 90% to 105% of authorized power and the meter must provide clear indications which will permit maintaining the operating power within the prescribed tolerance or the meter shall be calibrated to read directly in power units. (Added 84-628, 12/12/84)

(c) **INDIRECT METHODS.** The operating power is determined by the indirect method by applying an appropriate factor to the input power to the last radio-frequency power amplifier stage of the transmitter, using the following formula: (Added 79-609, 10/22/79)

$$\text{Transmitter output power} = E_p \times I_p \times F$$

Where:

E_p =DC input voltage of final radio stage.

I_p =Total DC input current of final radio stage.

F =Efficiency factor.

- (1) If the above formula is not appropriate for the design of the transmitter final amplifier, use a formula specified by the transmitter manufacturer with other appropriate operating parameters. (Added 79-609, 10/22/79)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (2) The value of the efficiency factor, F , established for the authorized transmitter output power is to be used for maintaining the operating power, even though there may be some variation in F over the power operating range of the transmitter. (Added 79-609, 10/22/79)
- (3) The value of F is to be determined and a record kept thereof by one of the following procedures listed in order of preference: (Revised 83-337, 9/8/83)
 - (i) Using the most recent measurement data for calibration of the transmission line meter according to the procedures described in paragraph (b) of this section or the most recent measurements made by the licensee establishing the value of F . In the case of composite transmitters or those in which the final amplifier stages have been modified pursuant to FCC approval, the licensee must furnish the FCC and also retain with the station records the measurement data used as a basis for determining the value of F . (Revised 83-337, 9/8/83)
 - (ii) Using measurement data shown on the transmitter manufacturer's test data supplied to the licensee; provided that measurements were made at the authorized frequency and transmitter output power. (Added 79-609, 10/22/79)
 - (iii) Using the transmitter manufacturer's measurement data submitted to the FCC for type acceptance and as shown in the instruction book supplied to the licensee. (Editorial Amendment, 4/30/80)

73.274 ~~REMOTE CONTROL AUTHORIZATIONS.*~~

73.275 ~~REMOTE CONTROL OPERATION.*~~

**Previous text not shown.*

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.277 PERMISSIBLE TRANSMISSIONS.

(a) No FM broadcast licensee or permittee shall enter into any agreement, arrangement or understanding, oral or written, whereby it undertakes to supply, or receives consideration for supplying, on its main channel a functional music, background music, or other subscription service (including storecasting) for reception in the place or places of business of any subscriber. (Added 64-517, 12/31/64)

(b) The transmission (or interruption) of radio energy in the FM broadcast band is permissible only pursuant to a station license, program test authority, construction permit, or experimental authorization and the provisions of this part of the Rules. (Revised 83-154, 6/27/83)

EDITOR'S NOTE: Section 73.293 has been so completely revised by Amendment No. 86-211 that the previous wording is not shown.

73.293 USE OF FM MULTIPLEX SUBCARRIERS.

Licensees of FM broadcast stations may transmit, without further authorization, subcarrier communication services in accordance with the provisions of §§ 73.319 and 73.322.

[Next Page is No. 245]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.295 FM SUBSIDIARY COMMUNICATIONS SERVICES.

(a) Subsidiary communications services are those transmitted on a subcarrier within the FM baseband signal, but do not include services which enhance the main program broadcast service, ~~(see § 73.293(a) and (d))~~ or exclusively related to station operations (see § 73.293(c)). Subsidiary communications include, but are not limited to services such as functional music, specialized foreign language programs, radio reading services, utility load management, market and financial data and news, paging and calling, traffic control signal switching, bilingual television audio, and point to point or multipoint messages.

(b) FM subsidiary communications services that are common carrier in nature are subject to common carrier regulation. Licensees operating such services are required to apply to the FCC for the appropriate authorization and to comply with all policies and rules applicable to the service. Responsibility for making the initial determinations of whether a particular activity is common carriage rests with the FM station licensee. Initial determinations by licensees are subject to FCC examination and may be reviewed at the FCC's discretion. (Added 83-154, 6/27/83)

(c) Subsidiary communications services are of a secondary nature under the authority of the FM station authorization, and the authority to provide such communications services may not be retained or transferred in any manner separate from the station's authorization. The grant or renewal of an FM station permit or license is not furthered or promoted by proposed or past services. The permittee or licensee must establish that the broadcast operation is in the public interest wholly apart from the subsidiary communications services provided. (Added 83-154, 6/27/83)

(d) The station identification, delayed recording, and sponsor identification announcements required by § 73.1201, 73.1208, and 73.1212 are not applicable to material transmitted under an SCA. (Revised 84-294, 9/25/84)

(e) The licensee or permittee must retain control over all material transmitted in a broadcast mode via the station's facilities, with the right to reject any material that it deems inappropriate or undesirable. (Added 83-154, 6/27/83)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.297 FM STEREOPHONIC SOUND BROADCASTING.

(a) An FM broadcast station may, without specific authority from the FCC, transmit stereophonic (biphonic, quadrasonic, etc.) sound programs upon installation of stereophonic sound transmitting equipment under the provisions of §§ 2.1001, 73.322, and 73.1590 of the Rules. Prior to commencement of stereophonic sound broadcasting, equipment performance measurements must be made to ensure that the transmitted signal complies with all applicable rules and standards. (Correction 83-259, 3/1/84)

(b) Each licensee or permittee engaging in multichannel broadcasting must measure the pilot subcarrier frequency as often as necessary to ensure that it is kept at all times within 2Hz of the authorized frequency.

73.310 FM TECHNICAL DEFINITIONS. (Revised 83-259, 3/1/84)**(a) FREQUENCY MODULATION.****ANTENNA HEIGHT ABOVE AVERAGE TERRAIN (HAAT).**
(Revised 83-259, 3/1/84)

HAAT is calculated by: determining the average of the antenna heights above the terrain from 3 to 16 kilometers (2 to 10 miles) from the antenna for the eight directions evenly spaced for each 45° of azimuth starting with True North (a different antenna height will be determined in each direction from the antenna); and computing the average of these separate heights. In some cases less than eight directions may be used. See § 73.313(d). Where circular or elliptical polarization is used, the antenna height above average terrain must be based upon the height of the radiation of the antenna that transmits the horizontal component of radiation. (Revised 83-259, 3/1/84)

ANTENNA POWER GAIN.

The square of the ratio of the root-mean-square (RMS) free space field strength produced at 1 kilometer in the horizontal plane in millivolts per meter for 1 kW antenna input power to 221.4 mV/m. This ratio is expressed in decibels (dB). If specified for a particular direction, antenna power gain is based on that field strength in that direction only. (Revised 83-259, 3/1/84)

AUXILIARY FACILITY.

An auxiliary facility is an antenna separate from the main facility's antenna, permanently installed on the same tower or at a different location, from which a station may broadcast for short periods without prior Commission authorization or notice to the Commission while the main facility is not in operation (*e.g.*, where tower work necessitates turning off the main antenna or where lightning has caused damage to the main antenna or transmission system) (*See* § 73.1675).

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

CENTER FREQUENCY.

The term "center frequency" means:

- (1) The average frequency of the emitted wave when modulated by a sinusoidal signal.
- (2) The frequency of the emitted wave without modulation.

COMPOSITE ANTENNA PATTERN.

The composite antenna pattern is a relative field horizontal plane pattern for 360 degrees of azimuth, for which the value at a particular azimuth is the greater of the horizontally polarized or vertically polarized component relative field values. The composite antenna pattern is normalized to a maximum of unity (1.000) relative field.

COMPOSITE BASEBAND SIGNAL.

A signal which is composed of all program and other communications signals that frequency modulates the FM carrier. (Added 83-154, 6/27/83)

EFFECTIVE RADIATED POWER.

The term "effective radiated power" means the product of the antenna power (transmitter output power less transmission line loss) times: (1) the antenna power gain, or (2) the antenna field gain squared. Where circular or elliptical polarization is employed, the term effective radiated power is applied separately to the horizontal and vertical components of radiation. For allocation purposes, the effective radiated power authorized is the horizontally polarized component of radiation only.

EQUIVALENT ISOTROPICALLY RADIATED POWER (EIRP).

The term "equivalent isotropically radiated power" (also known as "effective radiated power above isotropic) means the product of the antenna input power and the antenna gain in a given direction relative to an isotropic antenna. (Added 79-369, 7/9/79)

FM BLANKETING.

Blanketing is that form of interference to the reception of other broadcast stations which is caused by the presence of an FM broadcast signal of 115 dBu (562 mV/m) or greater signal strength in the area adjacent to the antenna of the transmitting station. The 115 dBu contour is referred to as the blanketing contour and the area within this contour is referred to as the blanketing area. (Added 84-514, 1/1/85)

FM BROADCAST BAND.

The band of frequencies extending from 88 to 108 MHz, which includes those assigned to noncommercial educational broadcasting.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

FM BROADCAST CHANNEL.

A band of frequencies 200 kHz wide and designated by its center frequency. Channels for FM broadcast stations begin at 88.1 MHz and continue in successive steps of 200 kHz to and including 107.9 MHz.

FM BROADCAST STATION.

A station employing frequency modulation in the FM broadcast band and licensed primarily for the transmission of radio-telephone emissions intended to be received by the general public.

FIELD STRENGTH.

The electric field strength in the horizontal plane.

FREE SPACE FIELD STRENGTH.

The field strength that would exist at a point in the absence of waves reflected from the earth or other reflecting objects.

FREQUENCY DEPARTURE.

The amount of variation of a carrier frequency or center frequency from its assigned value. (Added 79-369, 7/9/79)

FREQUENCY DEVIATION.

The peak difference between modulated wave and the carrier frequency. (Added 79-369, 7/9/79)

FREQUENCY MODULATION.

A system of modulation where the instantaneous radio frequency varies in proportion to the instantaneous amplitude of the modulating signal (amplitude of modulating signal to be measured after pre-emphasis, if used) and the instantaneous radio frequency is independent of the frequency of the modulating signal.

FREQUENCY SWING.

The peak difference between the maximum and the minimum values of the instantaneous frequency of the carrier wave during modulation. (Revised 79-369, 7/9/79)

MULTIPLEX TRANSMISSION.

The term "multiplex transmission" means the simultaneous transmission of two or more signals within a single channel. Multiplex transmission as applied to FM broadcast stations means the transmission of facsimile or other signals in addition to the regular broadcast signals.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

PERCENTAGE MODULATION.

The ratio of the actual frequency deviation to the frequency deviation defined as 100% modulation, expressed in percentage. For FM broadcast stations, a frequency deviation of ± 75 kHz is defined as 100% modulation. (Revised 79-369, 7/9/79)

- (b) **STEREOPHONIC SOUND BROADCASTING.**
(Revised 83-154, 6/27/83)

CROSS-TALK.

An undesired signal occurring in one channel caused by an electrical signal in another channel.

FM STEREOPHONIC BROADCAST.

The transmission of a stereophonic program by a single FM broadcast station utilizing the main channel and a stereophonic subchannel.

LEFT (OR RIGHT) SIGNAL.

The electrical output of a microphone or combination of microphones placed so as to convey the intensity, time, and location of sounds originating predominately to the listener's left (or right) of the center of the performing area.

LEFT (OR RIGHT) STEREOPHONIC CHANNEL.

The left (or right) signal as electrically reproduced in reception of FM stereophonic broadcasts.

MAIN CHANNEL.

The band of frequencies from 50 to 15,000 cycles per second which frequency-modulate the main carrier.

PILOT SUBCARRIER.

A subcarrier that serves as a control signal for use in the reception of FM stereophonic sound broadcasts. (Revised 83-154, 6/27/83)

STEREOPHONIC SEPARATION.

The ratio of the electrical signal caused in sound channel A to the signal caused in sound channel B by the transmission of only a channel B signal. Channels A and B may be any two channels of a stereophonic sound broadcast transmission system. (Revised 83-154, 6/27/83)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

STEREOPHONIC SOUND.

The audio information carried by plurality of channels arranged to afford the listener a sense of the spatial distribution of sound sources. Stereophonic sound broadcasting includes, but is not limited to, biphonic (two channel), triphonic (three channel) and quadrophonic (four channel) program services. (Revised 83-154, 6/27/84)

STEREOPHONIC SOUND SUBCARRIER.

Within the FM broadcast baseband used for transmitting signals for stereophonic sound reception of the main broadcast program service. (Revised 83-154, 6/27/84)

STEREOPHONIC SOUND SUBCHANNEL.

The band of frequencies from 23 kHz to 99 kHz containing sound subcarriers and their associated sidebands. (Revised 83-154, 6/27/84)

(c) **VISUAL TRANSMISSIONS.**

Communications or messages transmitted on a subcarrier intended for reception and visual presentation on a viewing screen, teleprinter, facsimile printer, or other form of graphic display or record. (Revised 83-154, 6/27/83)

(d) **CONTROL AND TELEMETRY TRANSMISSIONS.**

Signals transmitted on a multiplex subcarrier intended for any form of control and switching functions or for equipment status data and aural or visual alarms. (Added 83-154, 6/27/83)

73.311 FIELD STRENGTH CONTOURS.

(a) Applications for FM broadcast authorizations must show the field strength contours required by FCC Form 301 or FCC Form 340, as appropriate. (Revised 88-406, 6/26/89)

(b) The field strength contours provided for in this section shall be considered for the following purposes only:

[Next Page is No. 267]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (1) In the estimation of coverage resulting from the selection of a particular transmitter site by an applicant for an FM broadcast station.
- (2) In connection with problems of coverage arising out of application of § 73.3555. (Edit. Amdt. 4/2/87)
- (3) In determining compliance with § 73.315(a) concerning the minimum field strength to be provided over the principal community to be served. (Revised 66-670, 8/1/66)
- (4) In determining compliance with §73.215 concerning contour protection. (Revised 66-670, 8/1/66)

73.312 TOPOGRAPHIC DATA.

(a) In the preparation of the profile graphs previously described, and in determining the location and height above mean sea level of the antenna site, the elevation or contour intervals shall be taken from the United States Geological Survey Topographic Quadrangle Maps, United States Army Corps of Engineers Maps or Tennessee Valley Authority maps, whichever is the latest, for all areas for which such maps are available. If such maps are not published for the area in question, the next best topographic information should be used. Topographic data may sometimes be obtained from state and municipal agencies. The data from the Sectional Aeronautical Charts (including bench marks) or railroad depot elevations and highway elevations from road maps may be used where not better information is available. In cases where limited topographic data can be obtained, use may be made of an altimeter in a car driven along roads extending generally radially from the transmitter site.

(b) The Commission will not ordinarily require the submission of ~~topographical~~ ~~typographical~~ maps for areas beyond 24 km (15 miles) from the antenna site, but the maps must include the principal city or cities to be served. If it appears necessary, additional data may be requested.

(c) The U.S. Geological Survey Topography Quadrangle Sheets may be obtained from the U.S. Geological Survey, Department of the Interior, Washington, D.C. 20240. The Sectional Aeronautical Charts are available from the U.S. Coast and Geodetic Survey, Department of Commerce, Washington, DC 20235. These maps may also be secured from branch offices and from authorized agents or dealers in most principal cities.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(d) In lieu of maps, the average terrain elevation may be computer generated except in cases of dispute, using elevations from a 30 second, point or better topographic data file. The file must be identified and the data processed for intermediate points along each radial using linear interpolation techniques. The height above mean sea level of the antenna site must be obtained manually using appropriate topographic maps. (Added 84-594, 1/16/85)

73.313 PREDICTION OF COVERAGE.

(a) All predictions of coverage made pursuant to this section shall be made without regard to interference and shall be made only on the basis of estimated field strengths.

(b) Predictions of coverage shall be made only for the same purposes as relate to the use of field strength contours as specified in § 73.311.

(c) In predicting the distance to the field strength contours, the F (50, 50) field strength chart, Figure 1 of § 73.333 must be used. The 50% field strength is defined as that value exceeded for 50% of the time. (Revised 83-259, 3/1/84)

- (1) The F (50, 50) chart gives the estimated 50% field strengths exceeded at 50% of the locations in dB above 1 uV/m. The chart is based on an effective power radiated from a half-wave dipole antenna in free space, that produces an unattenuated field strength at 1 kilometer of about 107 dB above 1 uV/m (221.4 mV/m). (Revised 83-259, 3/1/84)
- (2) To use the chart for other ERP values, convert the ordinate scale by the appropriate adjustment in dB. For example, the ordinate scale for an ERP of 50 kW (~~17 dB~~) should be adjusted by 17 dB [$10 \log (50 \text{ kW}) = 17 \text{ dB}$], and; therefore, a field strength of ~~60~~ 40 dBu would correspond to the field strength value at (60 - 17 =) 44 dBu on the chart. be converted to 57 dBu. When predicting the distance to field strength contours, use the maximum ERP of the main radiated lobe in the pertinent azimuthal direction (do not account for beam tilt). When predicting field strengths over areas not in the plane of the maximum main lobe, use the ERP in the direction of such areas, determined by considering the appropriate vertical radiation pattern.

[Next Page is No. 268.]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

EDITOR'S NOTE: Section 73.313 paragraphs (d) through (h) have been so completely revised by Amendment No. 83-259, that the previous wording is not shown.

(d) The antenna height to be used with this chart is the height of the radiation center of the antenna above the average terrain along the radial in question. In determining the average elevation of the terrain, the elevations between 3 and 16 kilometers from the antenna site are used. (Added 83-259, 3/1/84)

- (1) Profile graphs must be drawn for eight radials beginning at the antenna site and extending 16 kilometers therefrom. The radials should be drawn for each 45° of azimuth starting with True North. At least one radial must include the principal community to be served even though it may be more than 16 kilometers from the antenna site. However, in the event none of the evenly spaced radials include the principal community to be served, and one or more such radials are drawn in addition, these radials must not be used in computing the antenna height above average terrain. (Added 83-259, 3/1/84)
- (2) Where the 3 to 16 kilometers portion of a radial extends in whole or in part over a large body of water or extends over foreign territory but the 50 uV/m (34 dBu) contour encompasses land area within the United States beyond the 16 kilometers portion of the radial, the entire 3 to 16 kilometers portion of the radial must be included in the computation of antenna height above average terrain. However, where the 50 uV/m (34 dBu) contour does not so encompass United States land area, and (i) the entire 3 to 16 kilometers portion of the radial extends over large bodies of water or over foreign territory, such radial must be completely omitted from the computation of antenna height above average terrain, and (ii) where a part of the 3 to 16 kilometers portion of a radial extends over large bodies of water or foreign territory, only that part of the radial extending from the 3 kilometers ~~sector~~ to the outermost portion of land ~~area within~~ in the United States covered by the radial used must be used in the computation of antenna height above average terrain.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(3) The profile graph for each radial should be plotted by contour intervals of from 12 to 30 meters and, where the data permits, at least 50 points of elevation (generally uniformly spaced) should be used for each radial. In instances of very rugged terrain where the use of contour intervals of 30 meters would result in several points in a short distance, 60 or 120 meter contour intervals may be used for such distances. On the other hand, where the terrain is uniform or gently sloping the smallest contour interval indicated on the topographic map should be used, although only relatively few points may be available. The profile graph should indicate the topography accurately for each radial, and the graphs should be plotted with the distance in kilometers as the abscissa and the elevation in meters above mean sea level as the ordinate. The profile graphs should indicate the source of the topographical data used. The graph should also show the elevation of the center of the radiating system. The graph may be plotted either on rectangular coordinate paper or on special paper that shows the curvature of the earth. It is not necessary to take the curvature of the earth into consideration in this procedure as this factor is taken care of in the charts showing signal strengths. The average elevation of the 13 kilometer distance between 3 and 16 kilometers from the antenna site should then be determined from the profile graph for each radial. This may be obtained by averaging a large number of equally spaced points, by using a planimeter, or by obtaining the median elevation (that exceeded for 50% of the distance) in sectors and averaging those values.

(4) Examples of HAAT calculations:

(i) The heights above average terrain on the eight radials are as follows:

	Meters
0°	120
45°	255
90°	185
135°	90
180°	-10
225°	-85
270°	40
315°	85

The antenna height above terrain (defined in § 73.310(a)) is computed as follows:

$$(120 + 255 + 185 + 90 - 10 - 85 + 40 + 85)/8 = 85 \text{ meters.}$$

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (ii) Same as paragraph (d)(4)(i) of this section, except the 0° radial is entirely over sea water. The antenna height above average terrain is computed as follows (note that the divisor is 7 not 8):

$$(255 + 185 + 90 - 10 - 85 + 40 + 85)/7 = 80 \text{ meters.}$$

(Added 83-259, 3/1/84)

- (iii) Same as paragraph (d)(4)(i) of this section, except that only the first 10 kilometers of the 90° radial are in the United States; beyond 10 kilometers the 90° radial is in a foreign country. The height above average terrain of the 3 to 10 kilometer portion of the 90° radial is 105 meters. The antenna height above average terrain is computed as follows (note that the divisor is 8 not 7.5):

$$(120 + 255 + 105 + 90 - 10 - 85 + 40 + 85)/8 = 75 \text{ meters.}$$

(Added 83-259, 3/1/84)

(e) In cases where the terrain in one or more directions from the antenna site departs widely from the average elevation of the 3 to 16 kilometer sector, the prediction method may indicate contour distances that are different from what may be expected in practice. For example, a mountain ridge may indicate the practical limit of service although the prediction method may indicate otherwise. In such cases, the prediction method should be followed, but a supplemental showing may be made concerning the contour distances as determined by other means. Such supplemental showings should describe the procedure used and should include sample calculations. Maps of predicted coverage should include both the coverage as predicted by the regular method and as predicted by a supplemental method. When measurements of area are required, these should include the area obtained by the regular prediction method and the area obtained by the supplemental method. In directions where the terrain is such that antenna heights less than 30 meters for the 3 to 16 kilometer sector are obtained, an assumed height of 30 meters must be used for the prediction of coverage. However, where the actual contour distances are critical factors, a supplemental showing of expected coverage must be included together with a description of the method used in predicting such coverage. In special cases, the FCC may require additional information as to terrain and coverage. (Added 83-259, 3/1/84)

(f) The effect of terrain roughness on the predicted field strength of a signal at points distant from an FM transmitting antenna is assumed to depend on the magnitude of a terrain roughness factor (h) which, for a specific propagation path, is determined by the characteristics of a segment of the terrain profile for that path 40 kilometers in length located between 10 and 50 kilometers from the antenna. The terrain roughness factor has a value equal to the distance, in meters, between elevations exceeded by all points on the profile for 10% and 90% respectively, of the length of the profile segment. (See § 73.333, Figure 4.) (Added 83-259, 3/1/84)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(g) If the lowest field strength value of interest in initially predicted to occur over a particular propagation path at a distance that is less than 50 kilometers from the antenna, the terrain profile segment used in the determination of terrain roughness factor over that path must be that included between points 10 kilometers from the transmitter and such lesser distances. No terrain roughness correction need be applied when all field strength values of interest are predicted to occur 10 kilometers or less from the transmitting antenna. (Added 83-259, 3/1/84)

(h) Profile segments prepared for terrain roughness factor determinations are to be plotted in rectangular coordinates, with no less than 50 points evenly spaced within the segment using data obtained from topographic maps with contour intervals of approximately 15 meters (50 feet) or less if available. (Added 83-259, 3/1/84)

*(i) The field strength charts (§ 73.333, Figs. 1-1a) were developed assuming a terrain roughness factor of 50 meters, which is considered to be representative of average terrain in the United States. Where the roughness factor for a particular propagation path is found to depart appreciably from this value, a terrain roughness correction (ΔF) should be applied to field strength values along this path, as predicted with the use of these charts. The magnitude and sign of this correction, for a value of Δh , may be determined from a chart included in § 73.333 as Figure 5. (Added 76-382, 5/1/77)

*(j) Alternatively, the terrain roughness correction may be computed using the following formula: (Added 76-382, 5/1/77)

$$\Delta F = 1.9 - 0.03 (\Delta h) (1 + f/300)$$

Where:

ΔF = terrain roughness correction in dB

Δk = terrain roughness factor in meters

f = frequency of signal in MHz (MHz)

*At 42 F.R. 25736, May 19, 1977, the effective date of § 73.313 paragraphs (i) and (j) was stayed indefinitely.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.314 FIELD STRENGTH MEASUREMENTS.

(a) Except as provided for in § 73.209, FM broadcast stations shall not be protected from any type of interference or propagation effect. Persons desiring to submit testimony, evidence or data to the Commission for the purpose of showing that the technical standards contained in this subpart do not properly reflect the levels of any given type of interference or propagation effect may do so only in appropriate rule making proceedings concerning the amendment of such technical standards. Persons making field strength measurements for formal submission to the Commission in rule making proceedings, or making such measurements upon the request of the Commission, shall follow the procedure for making and reporting such measurements outlined in paragraph (b) of this section. In instances where a showing of the measured level of a signal prevailing over a specific community is appropriate, the procedure for making and reporting field strength measurements for this purpose is set forth in paragraph (c) of this section. (Added 8/1/75)

(b) Collection of field strength data for propagation analysis.
(Added 8/1/75)

(1) PREPARATION FOR MEASUREMENTS.

- (i) On large scale topographic maps, eight or more radials are drawn from the transmitter location to the maximum distance at which measurements are to be made, with the angles included between adjacent radials of approximately equal size. Radials should be oriented so as to traverse representative types of terrain. The specific number of radials and their orientation should be such as to accomplish this objective. (Added 8/1/75)
- (ii) Each radial is marked, at a point exactly 16 kilometers from the transmitter, and, at greater distances, at successive 3 kilometer intervals. Where measurements are to be conducted over extremely rugged terrain, shorter intervals may be used, but all such intervals must be of equal length. Accessible roads intersecting each radial as nearly as possible at each 3 kilometer marker are selected. These intersections are the points on the radial at which measurements are to be made, and are referred to subsequently as measuring locations. The elevation of each measuring location should approach the elevation at the corresponding 3 kilometer marker as nearly as possible. (Revised 83-259, 3/1/84)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(2) MEASUREMENT PROCEDURE.

All measurements must be made utilizing a receiving antenna designed for reception of the horizontally polarized signal component, elevated 9 meters above the roadbed. At each measuring location, the following procedure must be used: (Revised 83-259, 3/1/84)

- (i) The instrument calibration is checked. (Added 8/1/75)
- (ii) The antenna is elevated to a height of 9 meters. (Revised 83-259, 3/1/84)
- (iii) The receiving antenna is rotated to determine if the strongest signal is arriving from the direction of the transmitter. (Added 8/1/75)
- (iv) The antenna is oriented so that the sector of its response pattern over which maximum gain is realized is in the direction of the transmitter. (Added 8/1/75)
- (v) A mobile run of at least 30 meters is made, that is centered on the intersection of the radial and the road, and the measured field strength is continuously recorded on a chart recorder over the length of the run. (Revised 83-259, 3/1/84)
- (vi) The actual measuring location is marked exactly on the topographic map, and a written record, keyed to the specific location, is made of all factors which may affect the recorded field, such as topography, height and types of vegetation, buildings, obstacles, weather, and other local features. (Added 8/1/75)
- (vii) If, during the test conducted as described in paragraph (b)(2)(iii) of this section, the strongest signal is found to come from a direction other than from the transmitter, after the mobile run prescribed in paragraph (b)(2)(v) of this section is concluded, additional measurements must be made in a "cluster" of at least five fixed points. At each such point, the field strengths with the antenna oriented toward the transmitter, and with the antenna oriented so as to receive the strongest field, are measured and recorded. Generally, all points should be within 60 meters of the center point of the mobile run. (Revised 83-259, 3/1/84)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (viii) If overhead obstacles preclude a mobile run of at least 30 meters, a "cluster" of five spot measurements may be made in lieu of this run. The first measurement in the cluster is identified. Generally, the locations for other measurements must be within 60 meters of the location of the first. (Revised 83-259, 3/1/84)

(3) METHOD OF REPORTING MEASUREMENTS.

A report of measurements to the Commission shall be submitted in affidavit form, in triplicate, and should contain the following information: (Added 8/1/75)

- (i) Tables of field strength measurements, which, for each measuring location, set forth the following data: (Added 8/1/75)
- (A) Distance from the transmitting antenna.
 - (B) Ground elevation at measuring location.
 - (C) Date, time of day, and weather.
 - (D) Median field in dBu for 0 dBk, for mobile run or for cluster, as well as maximum and minimum measured field strengths.
 - (E) Notes describing each measuring location.
- (ii) U.S. Geological Survey topographic maps, on which is shown the exact location at which each measurement was made. The original plots shall be made on maps of the largest available scale. Copies may be reduced in size for convenient submission to the Commission, but not to the extent that important detail is lost. The original maps shall be made available, if requested. If a large number of maps is involved, an index map should be submitted. (Added 8/1/75)
- (iii) All information necessary to determine the pertinent characteristics of the transmitting installation, including frequency, geographic coordinates of antenna site, rated and actual power output of transmitter, measured transmission line loss, antenna power gain, height of antenna above ground, above mean sea level, and above average terrain. The effective radiated power should be computed, and horizontal and vertical plane patterns of the transmitting antenna should be submitted. (Added 8/1/75)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (iv) A list of calibrated equipment used in the field strength survey, which, for each instrument, specifies its manufacturer, type, serial number and rated accuracy, and the date of its most recent calibration by the manufacturer, or by a laboratory. Complete details of any instrument not of standard manufacture shall be submitted. (Added 8/1/75)
 - (v) A detailed description of the calibration of the measuring equipment, including field strength meters, measuring antenna, and connecting cable. (Added 8/1/75)
 - (vi) Terrain profiles in each direction in which measurements were made, drawn on curved earth paper for equivalent $\frac{4}{3}$ earth radius, of the largest available scale. (Added 8/1/75)
- (c) Collection of field strength data to determine FM broadcast service in specific communities. (Added 8/1/75)

(1) **PREPARATION FOR MEASUREMENT.**

- (i) The population (P) of the community, and its suburbs, if any, is determined by reference to an appropriate source, e.g., the 1970 U.S. Census tables of population of cities and urbanized areas. (Added 8/1/75)
- (ii) The number of locations at which measurements are to be made shall be at least 15, and shall be approximately equal to $0.1(P)^{1/2}$, if this product is a number greater than 15. (Added 8/1/75)
- (iii) A rectangular grid, of such size and shape as to encompass the boundaries of the community is drawn on an accurate map of the community. The number of line intersections on the grid included within the boundaries of the community shall be at least equal to the required number of measuring locations. The position of each intersection on the community map determines the location at which a measurement shall be made. (Added 8/1/75)

(2) **MEASUREMENT PROCEDURE.**

All measurements shall be made using a receiving antenna designed for reception of the horizontally polarized signal component, elevated 9 meters above ground level. (Revised 83-259, 3/1/84)

[Next Page is No. 270.5]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (i) Each measuring location shall be chosen as close as feasible to a point indicated on the map, as previously prepared, and at as nearly the same elevation as that point as possible. (Added 8/1/75)
- (ii) At each measuring location, after equipment calibration and elevation of the antenna, a check is made to determine whether the strongest signal arrives from a direction other than from the transmitter. (Added 8/1/75)
- (iii) At 20 percent or more of the measuring locations, mobile runs, as described in paragraph (b)(2) of this section shall be made, with no less than three such mobile runs in any case. The points at which mobile measurements are made shall be well separated. Spot measurements may be made at other measuring points. (Added 8/1/75)
- (iv) Each actual measuring location is marked exactly on the map of the community, and suitably keyed. (Added 8/1/75)

A written record shall be maintained, describing, for each location, factors which may affect the recorded field, such as the approximate time of measurement, weather, topography, overhead wiring, heights and types of vegetation, buildings and other structures. The orientation, with respect to the measuring location shall be indicated of objects of such shape and size as to be capable of causing shadows or reflections. If the strongest signal received was found to arrive from a direction other than that of the transmitter, this fact shall be recorded. (Added 8/1/75)

(3) METHOD OF REPORTING MEASUREMENTS.

A report of measurements to the Commission shall be submitted in affidavit form, in triplicate, and should contain the following information: (Added 8/1/75)

- (i) A map of the community showing each actual measuring location, specifically identifying the points at which mobile runs were made. (Added 8/1/75)
- (ii) A table keyed to the above map, showing the field strength at each measuring point, reduced to dBu for the actual effective radiated power of the station. Weather, date, and time of each measurement shall be indicated. (Added 8/1/75)

73.314(c)(3)(iii)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (iii) Notes describing each measuring location. (Added 8/1/75)
- (iv) A topographic map of the largest available scale on which are marked the community and the transmitter site of the station whose signals have been measured, which includes all areas on or near the direct path of signal propagation. (Added 8/1/75)
- (v) Computations of the mean and standard deviation of all measured field strengths, or a graph on which the distribution of measured field strength values is plotted. (Added 8/1/75)
- (vi) A list of calibrated equipment used for the measurements, which for each instrument, specifies its manufacturer, type, serial number and rated accuracy, and the date of its most recent calibration by the manufacturer, or by a laboratory. Complete details of any instrument not of standard manufacture shall be submitted. (Added 8/1/75)
- (vii) A detailed description of the procedure employed in the calibration of the measuring equipment, including field strength meters, measuring antenna, and connecting cable. (Added 8/1/75)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.315 F.M. TRANSMITTER LOCATION.

(a) The transmitter location shall be chosen so that, on the basis of the effective radiated power and antenna height above average terrain employed, a minimum field strength of 70 db above one $\mu\text{V/m}$ (dBu), or 3.16 mV/m, will be provided over the entire principal community to be served. (Edit. Amdt. 9/27/84)

NOTE: The requirements of paragraph (a) of this section do not apply to noncommercial educational FM broadcast stations operating on reserved channels. (Channels 200 through 220) (Edit. Amdt. 4/2/87)

(b) The transmitter location should be chosen to maximum coverage to the city of license while minimizing interference. This is normally accomplished by locating in the least populated area available while maintaining the provisions of paragraph (a) of this section. In general, the transmitting antenna of a station should be located in the most sparsely populated area available at the highest elevation available. The location of the antenna should be so chosen that line-of-sight can be obtained from the antenna over the principle city or cites to be served; in no event should there be a major obstruction in this path. (Added 84-514, 1/1/85)

(c) The transmitting location should be selected so that the 1mV/m contour encompasses the urban population within the area to be served. It is recognized that topography, shape of the desired service area, and population distribution may make the choice of a transmitter location difficult. In such cases consideration may be given to the use of a directional antenna system, although it is generally preferable to choose a site where a nondirectional antenna may be employed.

(d) In cases of questionable antenna locations it is desirable to conduct propagation tests to indicate the field strength expected in the principal city or cites to be served and in other areas, particularly where severe shadow problems may be expected. In considering applications proposing the use of such locations, the Commission may require site tests to be made. Such tests should include measurements made in accordance with the measurements procedures described in § 73.314, and full data thereon shall be supplied to the Commission. The test transmitter should employ an antenna having a height as close as possible to the proposed antenna height, using a balloon or other support if necessary and feasible. Information concerning the authorization of site tests may be obtained from the Commission upon request. (Revised 84-514, 1/1/85)

73.315(e)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(e) Cognizance must of course be taken regarding the possible hazard of the proposed antenna structure to aviation and the proximity of the proposed site to airports and airways. Procedures and standards with respect to the Commission's consideration of proposed antenna structures which will serve as a guide to persons intending to apply for radio station licenses are contained in Part 17 of this chapter (Construction, Marking, and Lighting of Antenna Structures). (Revised 84-514, 1/1/85)

73.316 FM ANTENNA SYSTEMS.

(a) It shall be standard to employ horizontal polarization; however, circular or elliptical polarization may be employed if desired. Clockwise or counterclockwise rotation may be used. The supplemental vertically polarized effective radiated power required for circular or elliptical polarization shall in no event exceed the effective radiated power authorized.

(b) DIRECTIONAL ANTENNAS.

A directional antenna is an antenna that is designed or altered for the purpose of obtaining a non-circular radiation pattern. (Revised 91-273, 12/19/91)

- (1) Applications for the use of directional antennas that propose a ratio of maximum to minimum radiation in the horizontal plane of more than 15 dB will not be accepted. (Revised 91-273, 12/19/91)
- (2) Directional antennas used to protect short-spaced stations pursuant to § 73.213 or § 73.215 of the rules, that have a radiation pattern which varies more than 2 dB per 10 degrees of azimuth will not be authorized. (Revised 91-273, 12/19/91)

(c) APPLICATIONS FOR DIRECTIONAL ANTENNAS.

Applications proposing the use of directional antenna systems must be accompanied by the following:

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (1) A complete description of the proposed antenna system, including the manufacturer and model number of the proposed directional antenna. It is not sufficient to label the antenna with only a generic term such as "dipole". A specific model number must be provided. In the case of individually designed antennas with no model number, or in the case of a composite antenna composed of two or more individual antennas, the antenna must be described as a "custom" or "composite" antenna, as appropriate. A full description of the design of the antenna must also be submitted.*
- (2) A relative field horizontal plane pattern of the proposed directional antenna. A single pattern encompassing both the horizontal and vertical polarization is required, rather than separate patterns for horizontal and vertical polarization. A value of 1.0 must be used to correspond to the direction of maximum radiation. The plot of the pattern must be oriented such that 0° corresponds to the direction of maximum radiation or alternatively, in the case of an asymmetrical antenna pattern, the plot must be oriented such that 0° corresponds to the actual azimuth with respect to true North. The horizontal plane pattern must be plotted to the largest scale possible on unglazed letter-size polar coordinate paper (main engraving approximately ~~7" x 10"~~ 18 cm x 25 cm (7 inches x 10 inches)) using only scale divisions and subdivisions of 1, 2, 2.5, or 5 times ~~10^{-nth} to the nth power~~. Values of field strength less than 10% of the maximum field strength plotted on that pattern must be shown on an enlarged scale. In the case of a composite antenna composed of two or more individual antennas, the pattern antenna is that for the composite antenna, not the patterns for each of the individual antennas.
- (3) A tabulation of the relative field pattern required in paragraph (c)(2) of this section. The tabulation must use the same zero degree reference as the plotted pattern, and must contain values for at least every 10°. In addition, tabulated values of all maximas and minimas, with their corresponding azimuths, must be submitted.*

*(Added 6/26/89, 88-406)

[Next Page is No. 271]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (4) Sufficient vertical patterns to indicate clearly the radiation characteristics of the antenna above and below the horizontal plane. Complete information and patterns must be provided for angles of $\pm 10^\circ$ from the horizontal plane and sufficient additional information must be included on that portion of the pattern lying between $+10^\circ$ and the zenith and -10° and the nadir, to conclusively demonstrate the absence of undesirable lobes in these areas. The vertical plane pattern must be plotted on rectangular coordinate paper with reference to the horizontal plane. In the case of a composite antenna composed of two or more individual antennas, the pattern required is that for the composite antenna, not the patterns for each of the individual antennas. (Revised 88-406, 6/26/89)
- (5) A statement that the antenna will be mounted on the top of an antenna tower recommended by the antenna manufacturer, or will be side-mounted on a particular type of antenna tower in accordance with specific instructions provided by the antenna manufacturer. (Revised 88-406, 6/26/89)
- (6) A statement that the directional antennas will not be mounted on the top of an antenna tower which includes a top-mounted platform larger than the nominal cross-sectional area of the tower in the horizontal plane. (Revised 88-406, 6/26/89)
- (7) A statement that no other antennas of any type are mounted on the same tower level as a directional antenna, and that no antenna of any type is mounted within any horizontal or vertical distance specified by the antenna manufacturer as being necessary for proper directional operation. (Revised 88-406, 6/26/89)
- (8) In the case of applications for license upon completion of antenna construction, a statement from an engineer (as well as a statement of the engineer's qualifications) that the antenna has been installed pursuant to the manufacturer's instructions and a statement from a licensed surveyor that the antenna is installed in the proper orientation. (Revised 91-273, 12/19/91)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (9) In the case of an application for license upon completion of antenna construction for a station authorized pursuant to § 73.215 or § 73.509, a showing that the root mean square (RMS) of the measured composite antenna pattern (encompassing both the horizontally and vertically polarized radiation components (in relative field)) is at least 85% of the RMS of the authorized composite directional antenna pattern (in relative field). The RMS values, for a composite antenna pattern specified in relative field values, may be determined from the following formula:

RMS = the square root of:

$$\frac{[(\text{relative field value } 1)^2 + (\text{relative field value } 2)^2 + \dots + (\text{last relative field value})^2]}{\text{number of relative field values summed}}$$

where the relative field values are taken from at least 36 evenly spaced radials for the entire 360 degrees of azimuth. The application for license must also demonstrate that coverage of the community of license by the 70 dBu contour is maintained for stations authorized pursuant to § 73.215 on Channels 221 through 300, as required by § 73.315(a), while noncommercial educational stations operating on Channels 201 through 220 must show that the 60 dBu contour covers at least a portion of the community of license.

(d) Applications proposing the use of FM transmitting antennas in the immediate vicinity (i.e. 60 meters or less) of other FM or TV broadcast antennas must include a showing as to the expected effect, if any, of such approximate operation. (Revised 86-211, 6/9/86)

(e) Where an FM licensee or permittee proposes to mount its antenna on an AM antenna tower, or locate within 3.2 km of an AM antenna tower, the FM licensee or permittee must comply with § 73.1692.

[Next Page is No. 272.1]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

~~(f) — When an FM broadcast antenna is mounted on a nondirectional AM broadcast antenna, new resistance measurements must be made of the AM broadcast antenna after installation and testing of the FM broadcast antenna. During the installation and until the new resistance determination is approved, the AM broadcast station licensee should operate by the indirect method of power determination. The FM broadcast license application will not be considered until the application form concerning resistance measurements is filed for the AM broadcast station. (Revised 86-211, 6/9/86)~~

~~(g) — When an FM broadcast antenna is mounted on an element of an AM broadcast directional antenna, a full engineering study concerning the effect of the FM broadcast antenna on the directional pattern must be filed with the application concerning the AM broadcast station. Depending upon the individual case, the Commission may require adjustment and certain field strength measurements of the AM broadcast station following the completion of the FM broadcast antenna system. (Revised 86-211, 6/9/86)~~

~~(h) — When the proposed FM antenna is to be mounted on a tower in the vicinity of an AM station directional antenna system and it appears that the operation of a directional antenna system may be affected, an engineering study must be filed with the FM application concerning the effect of the FM antenna on the AM directional radiation pattern. Field strength measurements of the AM station may be required prior to and following construction of the FM station antenna, and readjustments made as necessary. (Revised 86-211, 6/9/86)~~

~~(i) — Information regarding data required in connection with AM broadcast directional antenna systems may be found in § 73.150 of this chapter. (See also AM Broadcast Technical Standards.) (Revised 86-211, 6/9/86)~~

[Next Page is No. 273]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.317 FM TRANSMISSION SYSTEM REQUIREMENTS.
(Revised 86-211, 6/9/86)

(a) FM broadcast stations employing transmitters authorized after January 1, 1960, must maintain the bandwidth occupied by their emissions in accordance with the specification detailed below. FM broadcast stations employing transmitters installed or type accepted before January 1, 1960, must achieve the highest degree of compliance with these specifications practicable with their existing equipment. In either case, should harmful interference to other authorized stations occur, the licensee shall correct the problem promptly or cease operation. (Revised 86-211, 6/9/86)

(b) Any emission appearing on a frequency removed from the carrier by between 120 kHz and 240 kHz inclusive must be attenuated at least 25 dB below the level of the unmodulated carrier. Compliance with this requirement will be deemed to show the occupied bandwidth to be 240 kHz or less. (Revised 86-211, 6/9/86)

(c) Any emission appearing on a frequency removed from the carrier by more than 240 kHz and up to and including 600 kHz must be attenuated at least 35 dB below the level of the unmodulated carrier. (Revised 86-211, 6/9/86)

(d) Any emission appearing on a frequency removed from the carrier by more than 600 kHz must be attenuated at least $43 + 10\text{Log}_{10}$ (Power, in watts) dB below the level of the unmodulated carrier, or 80 dB, whichever is the lesser attenuation. (Revised 86-211, 6/9/86)

(e) Preemphasis shall not be greater than the impedance-frequency characteristics of a series inductance resistance network having a time constant of 75 microseconds. (See upper curve of Figure 2 of § 73.333.) (Revised 86-211, 6/9/86)

73.318 FM BLANKETING INTERFERENCE.

Areas adjacent to the transmitting antenna that receive a signal with a strength of 115 dBu (562 mV/m) or greater will be assumed to be blanketed. In determining the blanketed area, the 115 dBu contour is determined by calculating the inverse distance field using the effective radiated power of the maximum radiated lobe of the antenna without considering its vertical radiation pattern or height. For directional antennas, the effective radiated power in the pertinent bearing shall be used. (Added 84-514, 1/1/85)

- (a) The distance to the 115 dBu contour is determined using the following equation: (Added 84-514, 1/1/85)

$$D \text{ (in kilometers)} = 0.394 \sqrt{P}$$

$$D \text{ (in miles)} = 0.245 \sqrt{P}$$

Where P is the maximum effective radiated power (ERP), measured in kilowatts, of the maximum radiated lobe.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (b) After January 1, 1985, permittees or licensees who either (1) commence program tests, or (2) replace their antennas, or (3) request facilities modifications and are issued a new construction permit must satisfy all complaints of blanketing interference which are received by the station during a one year period. The period begins with the commencement of program tests, or commencement of programming utilizing the new antenna. Resolution of complaints shall be at no cost to the complainant. These requirements specifically do not include interference complaints resulting from malfunctioning or mistuned receivers, improperly installed antenna systems, or the use of high gain antennas or antenna booster amplifiers. Mobile receivers and non-RF devices such as tape recorders or hi-fi amplifiers (phonographs) are also excluded. (Edit. Amdt. 7/9/87)
- (c) A permittee collocating with one or more existing stations and beginning program tests on or after January 1, 1985, must assume full financial responsibility for remedying new complaints of blanketing interference for a period of one year. Two or more permittees that concurrently collocate on or after January 1, 1985, shall assume shared responsibility for remedying blanketing complaints within the blanketing area unless an offending station can be readily determined and then that station shall assume full financial responsibility. (Added 84-514, 1/1/85)
- (d) Following the one year period of full financial obligation to satisfy blanketing complaints, licensees shall provide technical information or assistance to complainants on remedies for blanketing interference. (Added 84-514, 1/1/85)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.319 FM MULTIPLEX SUBCARRIER TECHNICAL STANDARDS. (Revised 86-211, 6/9/86)

(a) The technical specifications in this Section apply to all transmissions of FM multiplex subcarriers except those used for stereophonic sound broadcasts under the provisions of § 73.322. (Revised 86-211, 6/9/86)

(b) **MODULATION.** (Revised 86-211, 6/9/86)

Any form of modulation may be used for subcarrier operation.

(c) **SUBCARRIER BASEBAND.** (Revised 86-211, 6/9/86)

- (1) During monophonic program transmissions, multiplex subcarriers and their significant sidebands must be within the range of 20 kHz and 99 kHz.
- (2) During stereophonic sound program transmissions (see § 73.322), multiplex subcarriers and their significant sidebands must be within the range of 53 kHz to 99 kHz.
- (3) During periods when broadcast programs are not being transmitted, multiplex subcarriers and their significant sidebands must be within the range of 20 kHz to 99 kHz.

(d) **SUBCARRIER INJECTION.** (Revised 86-211, 6/9/86)

- (1) During monophonic program transmissions, modulation of the carrier by the arithmetic sum of all subcarriers may not exceed 30% referenced to 75 kHz modulation deviation. However, the modulation of the carrier by the arithmetic sum of all subcarriers above 75 kHz may not modulate the carrier by more than 10%.
- (2) During stereophonic program transmissions, modulation of the carrier by the arithmetic sum of all subcarriers may not exceed 20% referenced to 75 kHz modulation deviation. However, the modulation of the carrier by the arithmetic sum of all subcarriers above 75 kHz may not modulate the carrier by more than 10%.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (3) During periods when no broadcast program service is transmitted, modulation of the carrier by the arithmetic sum of all subcarriers may not exceed 30% referenced to 75 kHz modulation deviation. However, the modulation of the carrier by the arithmetic sum of all subcarriers above 75 kHz may not modulate the carrier by more than 10%. (Revised 86-211, 6/9/86)
- (4) Total modulation of the carrier wave during transmission of multiplex subcarriers used for subsidiary communications services must comply with the provisions of § 73.1570(b). (Revised 86-211, 6/9/86)

(e) Subcarrier generators may be installed and used with a type accepted FM broadcast transmitter without specific authorization from the FCC provided the generator can be connected to the transmitter without requiring any mechanical or electrical modifications in the transmitter FM exciter circuits. (Revised 86-211, 6/9/86)

(f) Stations installing multiplex subcarrier transmitting equipment must ensure the proper suppression of spurious or harmonic radiations. See §§ 73.317, 73.1599 and 73.1690. If the subcarrier operation causes the station's transmissions not to comply with the technical provisions for FM broadcast stations or causes harmful interference to other communication services, the licensee or permittee must correct the problem promptly or cease operation. The licensee may be required to verify the corrective measures with supporting data. Such data must be retained at the station and be made available to the FCC upon request. (Revised 86-211, 6/9/86)

73.322 FM STEREOPHONIC SOUND TRANSMISSION STANDARDS. (Revised 86-211, 6/9/86)

(a) An FM broadcast station shall not use 19 kHz \pm 20 Hz, except as the stereophonic pilot frequency in a transmission system meeting the following parameters: (Revised 86-211, 6/9/86)

- (1) The modulating signal for the main channel consists of the sum of the right and left signals. (Revised 86-211, 6/9/86)
- (2) The pilot subcarrier at 19 kHz \pm 2 Hz, must frequency modulate the main carrier between the limits of 8 and 10 percent. (Revised 86-211, 6/9/86)
- (3) One stereophonic subcarrier must be the second harmonic of the pilot subcarrier (i.e. 38 kHz) and must cross the time axis with a positive slope simultaneously with each crossing of the time axis by the pilot subcarrier. Additional stereophonic subcarriers are not precluded. (Revised 86-211, 6/9/86)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (4) Double sideband, suppressed-carrier, amplitude modulation of the stereophonic subcarrier at 38 kHz must be used.**
- (5) The stereophonic subcarrier at 38 kHz must be suppressed to a level less than 1% modulation of the main carrier.**
- (6) The modulating signal for the required stereophonic subcarrier must be equal to the difference of the left and right signals.**
- (7) The following modulation levels apply:
 - (i) When a signal exists in only one channel of a two channel (biphonic) sound transmission, modulation of the carrier by audio components within the baseband range of 50 Hz to 15 kHz shall not exceed 45% and modulation of the carrier by the sum of the amplitude modulated subcarrier in the baseband range of 23 kHz to 53 kHz shall not exceed 45%.**
 - (ii) When a signal exists in only one channel of a stereophonic sound transmission having more than one stereophonic subcarrier in the baseband, the modulation of the carrier by audio components within the audio baseband range of 23 kHz to 99 kHz shall not exceed 53% with total modulation not to exceed 90%.**

(b) Stations not transmitting stereo with the method described in (a), must limit the main carrier deviation caused by any modulating signals occupying the band 19 kHz \pm 20 Hz to 125 Hz.**

(c) All stations, regardless of the stereophonic transmission system used, must not exceed the maximum modulation limits specified in § 73.1570(b)(2). Stations not using the method described in (a), must limit the modulation of the carrier by audio components within the audio baseband range of 23 kHz to 99 kHz to not exceed 53%.**

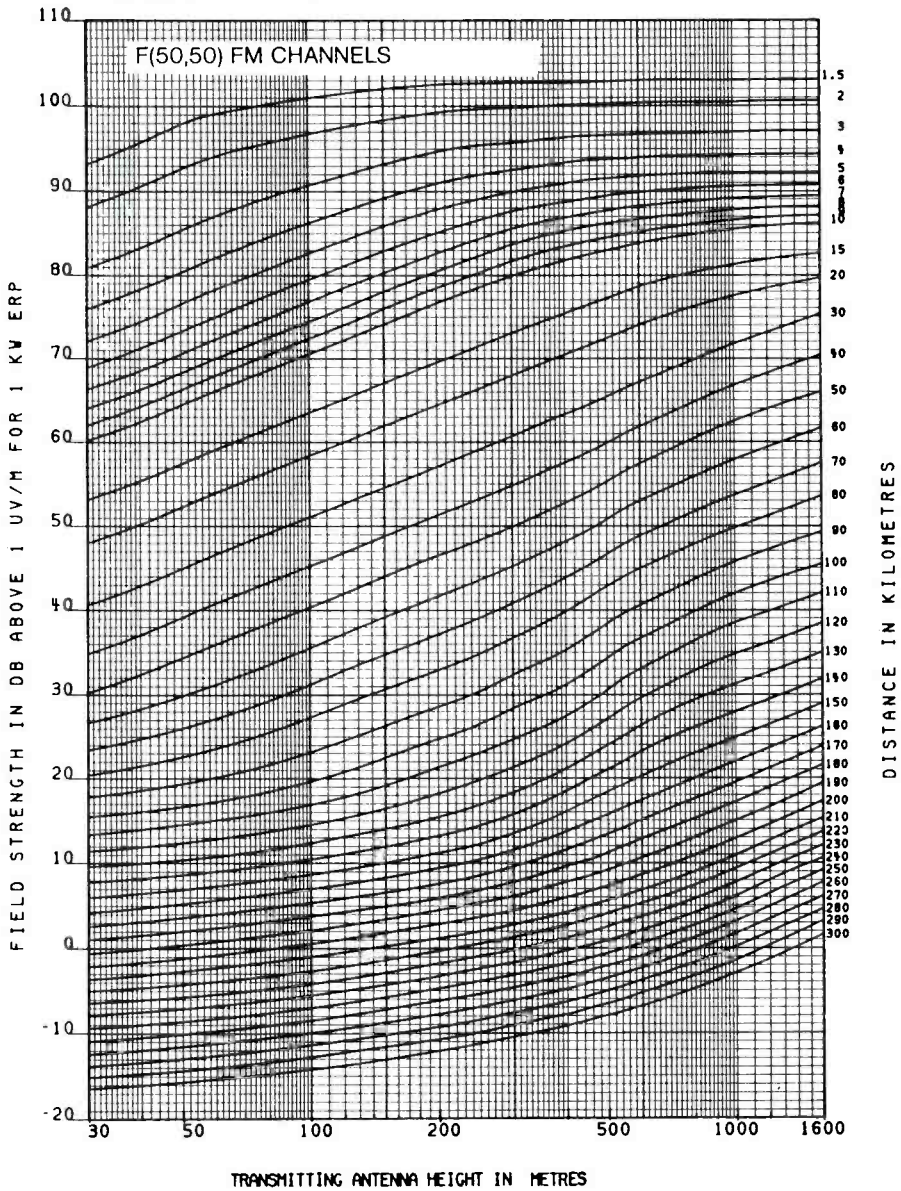
73.333 *ENGINEERING CHARTS.

This section consists of the following Figures 1, 1a, 2, and slider 4 and 5. (Revised 83-259, 3/1/84)

NOTE: The figures reproduced herein, due to their small scale, are not to be used in connection with material submitted to the FCC.

(**Added 86-211, 6/9/86)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

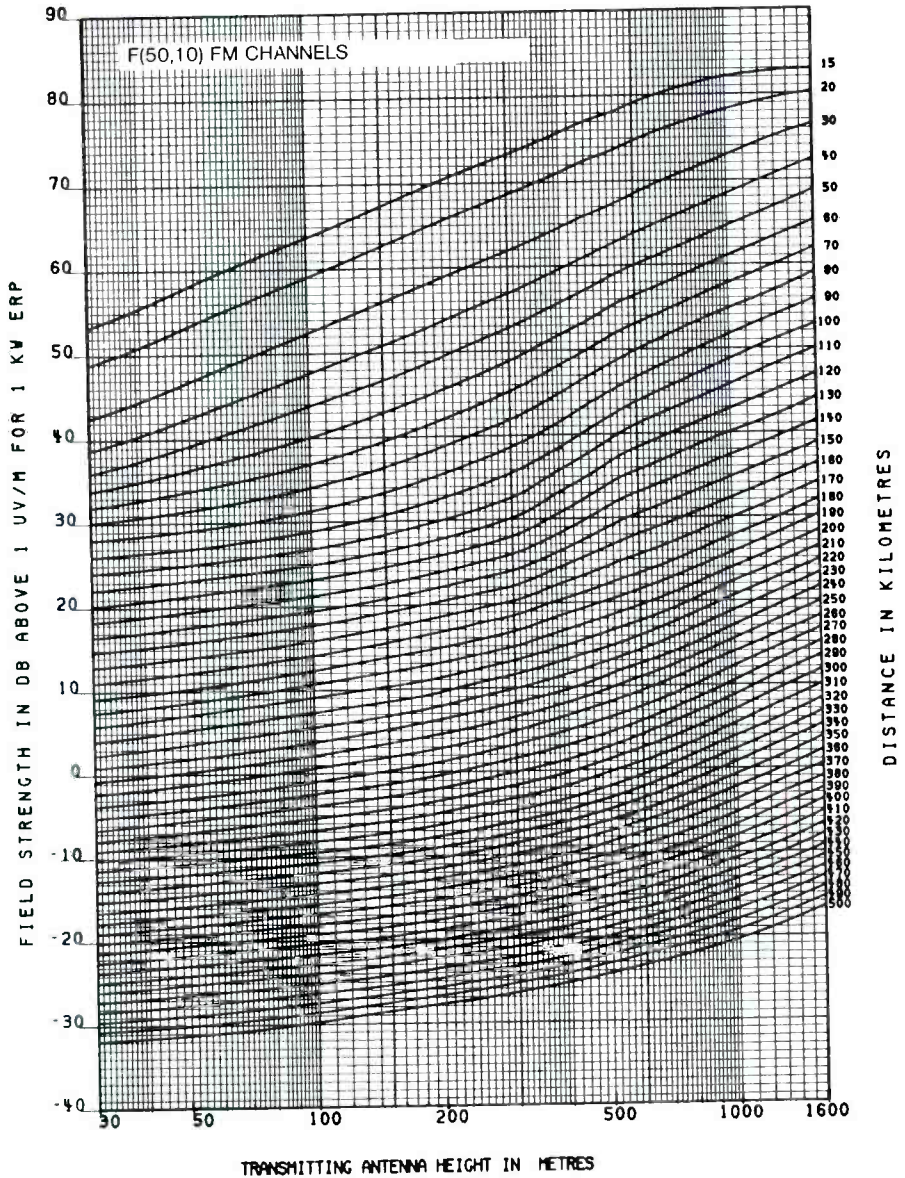


FCC 73.333 FIGURE 1

FM CHANNELS
ESTIMATED FIELD STRENGTH EXCEEDED AT 50 PERCENT
OF THE POTENTIAL RECEIVER LOCATIONS FOR AT LEAST 50 PERCENT
OF THE TIME AT A RECEIVING ANTENNA HEIGHT OF 9 METERS

[Next Page is No. 285]

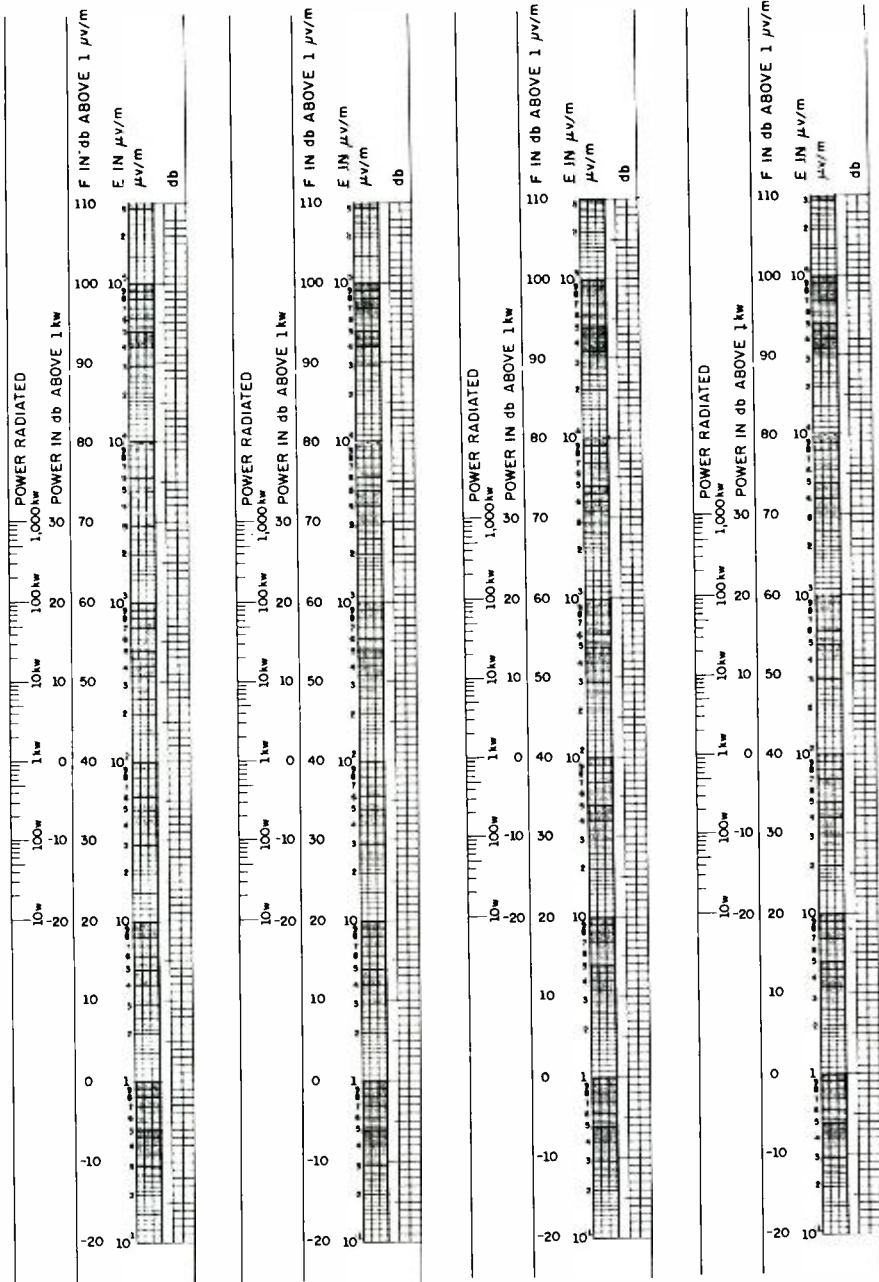
FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73



FM CHANNELS

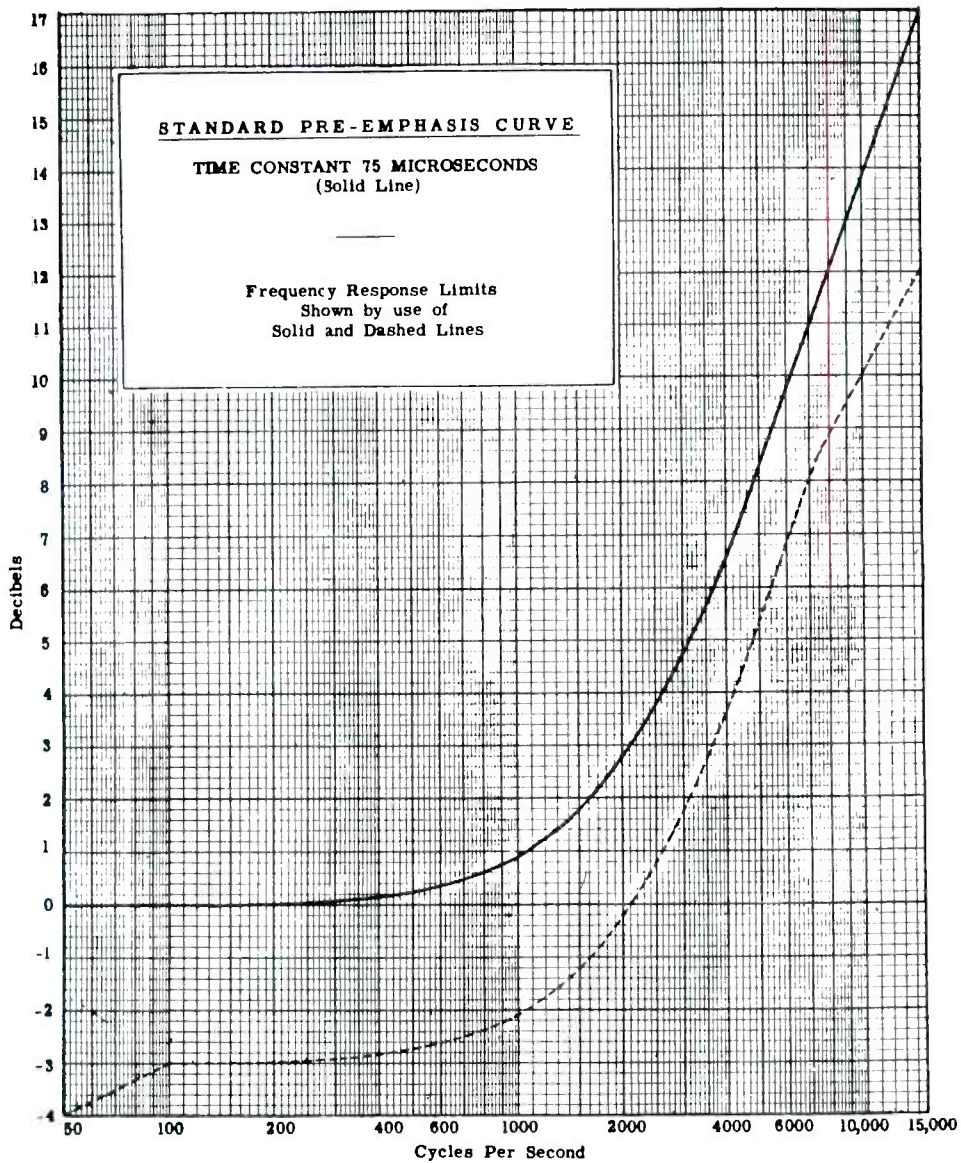
ESTIMATED FIELD STRENGTH EXCEEDED AT 50 PERCENT OF THE POTENTIAL RECEIVER LOCATIONS FOR AT LEAST 10 PERCENT OF THE TIME AT A RECEIVING ANTENNA HEIGHT OF 9 METERS

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73



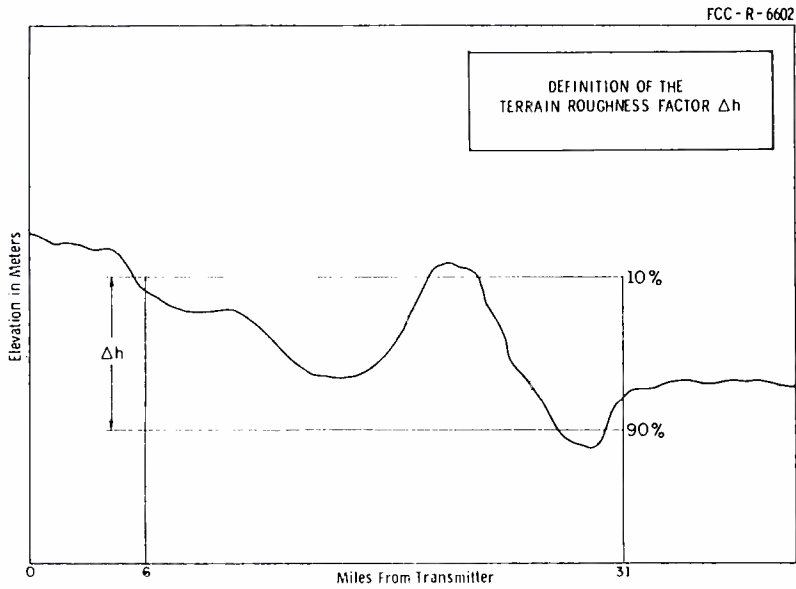
SLIDING SCALE FOR USE WITH FIGURE 1

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73



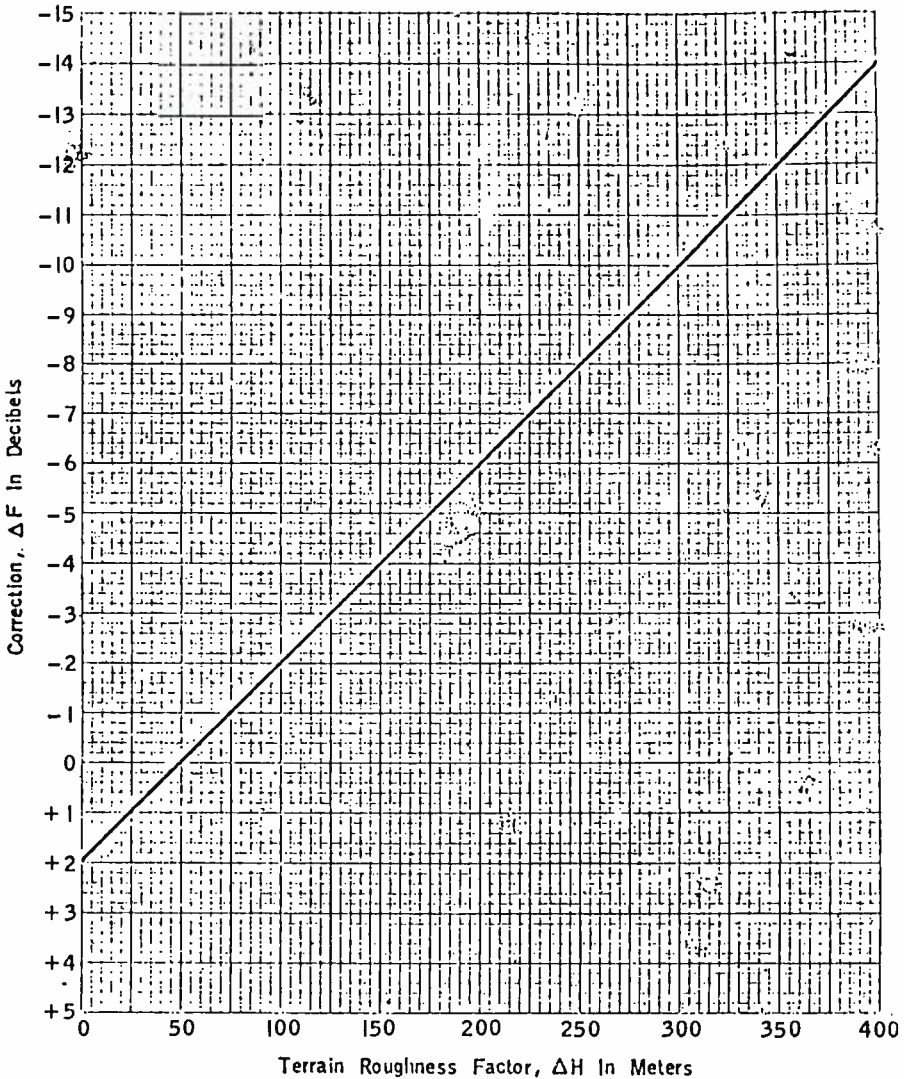
[Next Page is No. 310.1]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73



**EDITOR'S NOTE: Effective Date STAYED until further notice. See Change Record, page A-42, per F.R. 42-25736, dated May 19, 1977.*

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73



Terrain Roughness Factor, H in Meters - TERRAIN ROUGHNESS CORRECTION for use with estimated FM F(50,50) and F(50,10) field strength curves

**EDITOR'S NOTE: Effective Date STAYED until further notice. See Change Record page A-42, per F.R. 42-25736, dated May 19, 1977.*

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- 73.340 ~~USE OF AUTOMATIC TRANSMISSION SYSTEMS
(ATS).*~~
- 73.342 ~~AUTOMATIC TRANSMISSION SYSTEM FACILITIES.*~~
- 73.344 ~~FAIL SAFE TRANSMITTER CONTROL FOR
AUTOMATIC TRANSMISSION SYSTEMS.*~~
- 73.346 ~~AUTOMATIC TRANSMISSION SYSTEM MONITORING
AND ALARM POINTS.*~~

**Previous text not shown.*

[Next Page is No. 311]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

SUBPART C

NONCOMMERCIAL EDUCATIONAL FM BROADCAST STATIONS

73.501 CHANNELS AVAILABLE FOR ASSIGNMENT.

(a) The following frequencies, except as provided in paragraph (b) of this section, are available for noncommercial educational FM broadcasting:

Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.
87.9	200	90.1	211
88.1	201	90.3	212
88.3	202	90.5	213
88.5	203	90.7	214
88.7	204	90.9	215
88.9	205	91.1	216
89.1	206	91.3	217
89.3	207	91.5	218
89.5	208	91.7	219
89.7	209	91.9	220
89.9	210		

¹The frequency 87.9 MHz, Channel 200, is available only for use of existing Class D stations required to change frequency. It is available only on a noninterference basis with respect to TV Channel 6 stations and adjacent channel noncommercial educational FM stations. It is not available at all within 402 kilometers (250 miles) of Canada and 320 kilometers (199) miles of Mexico. The specific standards governing its use are contained in § 73.512. (Added 78-384, 10/13/78)

²The frequency 89.1 MHz, Channel 206, in the New York City metropolitan area, is reserved for the use of the United Nations with the equivalent of an antenna height of 500 150 meters (492 feet) above average terrain and effective radiated power of 20 kW and the Commission will make no assignments which would cause objectionable interference with such use.

(b) In Alaska, FM broadcast stations operating on Channels 200-220 (87.9-91.9 MHz) shall not cause harmful interference to and must accept interference from non-Government fixed operations authorized prior to January 1, 1982. (Added 82-283, 8/11/82)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

~~(e) There are specific noncommercial educational FM assignments (Channels 201-220) for various communities in Arizona, California, New Mexico, and Texas. These are set forth in § 73.504.~~

73.502 STATE-WIDE PLANS.

In considering the assignment of a channel for a noncommercial educational FM broadcast station, the Commission will take into consideration the extent to which each application meets the requirements of any state-wide plan for noncommercial educational FM broadcast stations filed with the Commission, provided that such plans afford fair treatment to public and private educational institutions, urban and rural, at the primary, secondary, higher, and adult educational levels, and appear otherwise fair and equitable.

73.503 LICENSING REQUIREMENTS AND SERVICE.

The operation of, and the service furnished by noncommercial educational FM broadcast stations shall be governed by the following:

- (a) A noncommercial educational FM broadcast station will be licensed only to a nonprofit educational organization and upon showing that the station will be used for the advancement of an educational program.
 - (1) In determining the eligibility of publicly supported educational organizations, the accreditation of their respective state departments of education shall be taken into consideration.
 - (2) In determining the eligibility of privately controlled educational organizations, the accreditation of state departments of education and/or recognized regional and national educational accrediting organizations shall be taken into consideration.
- (b) Each station may transmit programs directed to specific schools in a system or systems for use in connection with the regular courses as well as routine and administrative material pertaining thereto and may transmit educational, cultural, and entertainment programs to the public.

[Next Page is No. 312.1]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (c) A noncommercial educational FM broadcast station may broadcast programs produced by, or at the expense of, or furnished by persons other than the licensee, if no other consideration than the furnishing of the program and the costs incidental to its production and broadcast are received by the licensee. The payment of line charges by another station network, or someone other than the licensee of a noncommercial educational FM broadcast station, or general contributions to the operating costs of a station, shall not be considered as being prohibited by this paragraph. (Revised 70-487, 9/30/70)
- (d) Each station shall furnish a nonprofit and noncommercial broadcast service. Noncommercial educational FM broadcast stations are subject to the provisions of § 73.1212 to the extent they are applicable to the broadcast of programs produced by, or at the expense of, or furnished by others. No *promotional announcement on behalf of for profit entities* shall be broadcast at any time in exchange for the receipt, in whole or in part, of consideration to the licensee, its principals, or employees. However, acknowledgments of contributions can be made. The scheduling of any announcements and acknowledgments may not interrupt regular programming. (Revised 82-327, 9/3/82)

NOTE: Commission interpretation of on this rule, including the acceptable form of acknowledgments, may be found in the *Second Report and Order* in Docket No. 21136 (Commission Policy Concerning the Noncommercial Nature of Educational Broadcast Stations), 86 FCC 2d 141 (1981); the *Memorandum Opinion and Order* in Docket No. 21136, 90 FCC 2d 895 (1982), and the *Memorandum Opinion and Order* in Docket No. 21136, 97 FCC 2d 255 (1984). See also, "Commission Policy Concerning the Noncommercial Nature of Educational Broadcast Stations," Public Notice, 7 FCC Red 827 (1992), which can be retrieved through the Internet at <http://www.fcc.gov/mmb/asd/nature.html>, 49-FR 13534, April 5, 1984.

[Next Page is No. 312.3]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

EDITOR'S NOTE: Section 73.504 has been so completely revised by Amendment No. 87-339, that the previous wording is not shown.

73.504 CHANNEL ASSIGNMENTS IN THE MEXICAN BORDER AREA.

(a) NCE-FM stations within 199 miles (320 km) of the United States-Mexican border shall comply with the separation requirements and other provisions of the "Agreement between the United States of America and the United Mexican States Concerning Frequency Modulation Broadcasting in the 88 to 108 MHz Band" as amended.

(b) Applicants for noncommercial educational FM stations within 199 miles (320 km) of the United States-Mexican border shall propose at least Class A minimum facilities (see § 73.211(a)). However, existing Class D noncommercial educational stations may apply to change frequency within the educational portion of the FM band in accordance with the requirements set forth in § 73.512.

(c) Section 73.208 of this chapter shall be complied with as to the determination of reference points and distance computations used in applications for new or changed facilities. However, if it is necessary to consider a Mexican channel assignment or authorization, the computation of distance will be determined as follows: if a transmitter site has been established, on the basis of the coordinates of the site; if a transmitter site has not been established, on the basis of the reference coordinates of the community, town, or city.

[Next Page is No. 312.7]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.505 ZONES.

For the purposes of assignment of noncommercial educational FM stations, the United States is divided into three zones, Zone I, Zone I-A, and Zone II, having the boundaries specified in § 73.205. (Added 77-476, 7/18/77)

73.506 CLASSES OF NONCOMMERCIAL EDUCATIONAL FM STATIONS AND CHANNELS.

(a) Noncommercial educational stations operating on the channels specified in § 73.501 are divided into the following classes: (Revised 78-384, 10/13/78)

- (1) A Class D educational station is one operating with no more than 10 watts transmitter power output. (Revised 78-384, 10/13/78)
- (2) A Class D educational (secondary) station is one operating with no more than 10 watts transmitter power output in accordance with the terms of § 73.512 or which has elected to follow these requirements before they become applicable under the terms of § 73.512. (Added 78-384, 10/13/78)
- (3) Noncommercial educational FM (NCE-FM) stations with more than ~~0.01 kW~~ 10 watts transmitter power output are classified as Class A, B1, B, ~~C3~~, C2, C1, or C depending on the station's effective radiated power, and antenna height above average terrain, and on the zone in which the station's transmitter is located, on the same basis as provided set forth in §§ 73.205, 73.210 and 73.211 for commercial stations.

(b) Any noncommercial educational station except Class D may be assigned to any of the channels listed in § 73.501. Class D noncommercial educational FM stations applied for or authorized prior to June 1, 1980, may continue to operate on their authorized channels subject to the provisions of § 73.512. (Revised 83-259, 3/1/84)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.507 MINIMUM DISTANCE SEPARATIONS BETWEEN STATIONS.**(a) MINIMUM DISTANCE SEPARATIONS.**

No application for a new station, or change in channel or transmitter site or increase in facilities of an existing station, will be granted unless the proposed facilities will be located so as to meet the adjacent channel distance separations specified in § 73.207(a) for the class of station involved with respect to assignment on Channels 221, 222 and 223 listed in § 73.201 (except where in the case of an existing station the proposed facilities fall within the provisions of § 73.207(b)), or where a Class D station is changing frequency to comply with the requirements of § 73.512. (Revised 78-384, 10/13/78)

(b) Stations authorized as of September 10, 1962, which do not meet the requirements of paragraph (a) of this section and § 73.511, may continue to operate as authorized; but any application to change facilities will be subject to the provisions of this section. (Added 77-476, 7/18/77)

EDITOR'S NOTE: Section 73.507(c) has been so completely revised by Amendment No. 84-65, that the previous wording is not shown.

- (c) (1) Stations separated in frequency by 10.6 or 10.8 MHz (53 or 54 channels) from allotments or assignments on non-reserved channels will not be authorized unless they conform to the separations in Table A given in § 73.207.
- (2) Under the United States-Mexican FM Broadcasting Agreement, for stations and assignments differing in frequency by 10.6 to 10.8 MHz (53 or 54 channels), U.S. noncommercial educational FM allotments and assignments must meet the separations given in Table C of § 73.207 to Mexican allotments or assignments in the border area.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.508 STANDARDS OF GOOD ENGINEERING PRACTICE.

(a) All noncommercial educational stations operating with more than 10 watts transmitter output power shall be subject to all of the provisions of the FM Technical Standards contained in Subpart B of this part. Class D educational stations shall be subject to the definitions contained in § 73.310 of Subpart B of this part, and also to those other provisions of the FM Technical Standards which are specifically made applicable to them by the provisions of this subpart. (Edit. Amdt. 4/30/80)

(b) The transmitter and associated transmitting equipment of each noncommercial educational FM station licensed for transmitter output power above 10 watts must be designed, constructed and operated in accordance with § 73.317. (Edit. Amdt. 4/30/80)

(c) The transmitter and associated transmitting equipment of each noncommercial educational FM station licensed for transmitter power output of 10 watts or less, although not required to meet all requirements of § 73.317, must be constructed with the safety provisions of the current national electrical code as approved by the American Standards Association. These stations must be operated, tuned, and adjusted so that emissions are not radiated outside the authorized band causing or which are capable of causing interference to the communications of other stations. The audio distortion, audio frequency range, carrier hum, noise level, and other essential phases of the operation which control the external effects, must be at all times capable of providing satisfactory broadcast service. Studio equipment properly covered by an underwriter's certificate will be considered as satisfying safety requirements. (Added 78-788, 11/20/78)

73.509 PROHIBITED OVERLAP.

(a) An application for a new or modified NCE-FM station other than a Class D (secondary) station will not be accepted if the proposed operation would involve overlap of signal strength contours with any other station ~~whose transmitter is located more than 320 kilometers (199 miles) from the U.S. Mexican border licensed by the Commission~~ and operating in the reserved band (Channels 200-220, inclusive) as set forth below:

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

Frequency separation	Contour of proposed station	Contour of other station
Co-channel	0.1 mV/m (40 dBu) 1 mV/m (60 dBu)	1 mV/m (60 dBu) 0.1 mV/m (40 dBu)
200 kHz	0.5 mV/m (54 dBu) 1 mV/m (60 dBu)	1 mV/m (60 dBu) 0.5 mV/m (54 dBu)
400 kHz	10 mV/m (80 dBu) 1 mV/m (60 dBu)	1 mV/m (60 dBu) 10 mV/m (80 dBu)
600 kHz	100 mV/m (100 dBu) 1 mV/m (60 dBu)	1 mV/m (60 dBu) 100 mV/m (100 dBu)

(b) An application by a Class D (secondary) station, other than an application to change class, will not be accepted if the proposed operation would involve overlap of signal strength contours with any other station as set forth below:

Frequency separation	Contour of proposed station	Contour of other station
Co-channel	0.1 mV/m (40 dBu)	1 mV/m (60 dBu)
200 kHz	0.5 mV/m (54 dBu)	1 mV/m (60 dBu)
400 kHz	10 mV/m (80 dBu)	1 mV/m (60 dBu)
600 kHz	100 mV/m (100 dBu)	1 mV/m (60 dBu)

(c) The following standards must be used to compute the distances to the pertinent contours:

- (1) The distance of the 60 dBu (1 mV/m) contours are to be computed using Figure 1 of § 73.333 [F(50,50) curves] of this part.
- (2) The distance to the other contours are to be computed using Figure 1a of § 73.333 [F(50,10) curves]. In the event that the distance to the contour is below 16 kilometers (approximately 10 miles), and therefore not covered by Figure 1a, curves in Figure 1 must be used.
- (3) The effective radiated power (ERP) that is the maximum ERP for any elevation plane on any bearing will be used.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(d) An application for a change (other than a change in channel) in the facilities of a NCE-FM broadcast station will be accepted even though overlap of signal strength contours, as specified in paragraphs (a) and (b) of this section, would occur with another station in an area where such overlap does not already exist, if: (Added 85-328, 6/20/85)

- (1) The total area of overlap with that station would not be increased; (Added 85-328, 6/20/85)
- (2) The area of overlap with any other station would not increase; (Added 85-328, 6/20/85)
- (3) The area of overlap does not move significantly closer to the station receiving the overlap; and (Added 85-328, 6/20/85)
- (4) No area of overlap would be created with any station with which the overlap does not now exist. (Added 85-328, 6/20/85)

(e) The provisions of this section concerning prohibited overlap will not apply where the area of such overlap lies entirely over water. (Added 85-328, 6/20/85)

73.510 ANTENNA SYSTEMS.

(a) All noncommercial educational stations operating with more than 10 watts transmitter output power shall be subject to the provisions of § 73.316 concerning antenna systems contained in Subpart B of this part. (Added 77-476, 7/18/77)

(b) DIRECTIONAL ANTENNA.

No application for a construction permit of a new station, or change in channel, or change in an existing facility on the same channel will be accepted for filing if a directional antenna with a maximum-to-minimum ratio of more than 15 dB is proposed. (Added 77-476, 7/18/77)

73.511 POWER AND ANTENNA HEIGHT REQUIREMENTS.

(a) No new noncommercial educational station will be authorized with effective radiated power less than 0.1 kW; less power than minimum power requirements for commercial Class A facilities. (See § 73.211.)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

~~(b) On Channels 201 to 220, inclusive specified in § 73.501, no educational station will be authorized with effective radiated power greater than specified in § 73.211(b)(1). No new noncommercial educational FM station will be authorized with facilities greater than Class B in Zones I and I-A, or Class C in Zone II, as defined in § 73.211.~~

(c) Stations licensed before ~~January 1, 1985~~ December 31, 1984, and operating above 50 kW in Zones I and I-A, and above 100 kW and in Zone II may continue to operate as authorized.

~~NOTE: For educational stations authorized before January 1, 1985, the provisions of this section (§ 73.511) become effective March 1, 1987.~~

**73.512 SPECIAL PROCEDURES APPLICABLE TO CLASS D
NONCOMMERCIAL EDUCATIONAL STATIONS.**

(a) All Class D stations seeking renewal of license for any term expiring June 1, 1980, or thereafter shall comply with the requirements set forth below and shall simultaneously file an application on FCC Form 340, containing full information regarding such compliance with the provisions set forth below. (Added 78-384, 10/13/78)

- (1) To the extent possible, each applicant shall select a commercial FM channel on which it proposes to operate in lieu of the station's present channel. The station may select any commercial channel provided no objectionable interference, as set forth in § 73.509(b), would be caused. The application shall include the same engineering information as is required to change the frequency of an existing station and any other information necessary to establish the fact that objectionable interference would not result. If no commercial channel is available where the station could operate without causing such interference, the application shall set forth the basis upon which this conclusion is reached. (Edit. Amdt. 3/29/85)

[Next Page is No. 313]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (2) If a commercial channel is unavailable, to the extent possible each applicant should propose operation on Channel 200 (87.9 MHz) unless the station would be within 402 kilometers (250 miles) of the Canadian border or 320 kilometers (199 miles) of the Mexican border or would cause interference to an FM station operating on Channels 201, 202, or 203 or to TV Channel 6, as provided in § 73.509. (Added 74-384, 10/13/78)
- (3) If a channel is not available under either paragraph (a)(1) or (2) of this section, the renewal applicant shall study all 20 noncommercial educational FM channels and shall propose operation on the channel which would cause the least preclusion to the establishment of new stations or increases in power by existing stations. Full information regarding the basis for the selection should be provided. (Added 78-384, 10/13/78)

(b) At any time before the requirements of paragraph (a) become effective, any existing Class D station may file a construction permit application on FCC Form 340 to change channel in the manner described above which shall be subject to the same requirements. In either case, any license granted shall specify that the stations' license is for a Class D (secondary) station. (Added 78-384, 10/13/78)

(c) Except in Alaska, no new Class D applications nor major change applications by existing Class D stations are acceptable for filing except by existing Class D stations seeking to change frequency. Upon the grant of such application, the station shall become a Class D (secondary) station. (Added 78-384, 10/13/78)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(d) Class D noncommercial educational (secondary) stations (see § 73.506(a)(2)) will be permitted to continue to operate only so long as no interference (as defined in § 73.509) is caused to any TV or commercial FM broadcast stations. In the event that the Class D (secondary) station would cause interference to a TV or commercial FM broadcast station after that Class D (secondary) station is authorized, the Class D (secondary) station must cease operation when program tests for the TV or commercial FM broadcast station commence. The Class D (secondary) station may apply for a construction permit (see § 73.3533) to change to another frequency or antenna site where it would not cause interference (as defined in § 73.509). If the Class D (secondary) station must cease operation before the construction permit is granted, an application for temporary authorization (pursuant to § 73.3542) to operate with the proposed facilities may be submitted; where appropriate, such temporary authorization can be granted. (Edit. Amdt. 7/7/82)

**73.513 NONCOMMERCIAL EDUCATIONAL FM STATIONS
OPERATING ON UNRESERVED CHANNELS.**

Noncommercial educational FM stations other than Class D (secondary) which operate on Channels 221 through 300 but which comply with § 73.503 as to licensing requirements and the nature of the service rendered, must comply with the provisions of the following Sections of Subpart B: § 73.201 through 73.213 (Classifications of FM Broadcast Stations and Allocations of Frequencies) and such other Sections of Subpart B as are made specially applicable by the provisions of this Subpart C. Stations in Alaska authorized before August 11, 1982, using Channels 261-300 need not meet the minimum effective radiated power requirement specified in § 73.211(a). In all other respects, stations operating on Channels 221 through 300 are to be governed by the provisions of this Subpart and not Subpart B. (Edit. Amdt. 8/11/82)

***73.520 [REDESIGNATED AS § 73.672]**

**~~EDUCATIONAL AND INFORMATION PROGRAMMING
FOR CHILDREN ON NONCOMMERCIAL TELEVISION.~~**

(a) ~~Each noncommercial television broadcast station licensee has an obligation to serve, over the term of its license, the educational and informational needs of children through the licensee's overall programming specifically designed to serve such needs.~~

(b) ~~Any special nonbroadcast efforts which enhance the value of children's educational and informational television programming, and any special effort to produce or support educational and informational television programming by another station in the licensee's marketplace, may also contribute to meeting the licensee's obligation to serve, over the term of its license, the educational and informational needs of children.~~

NOTE: ~~For purposes of this section, educational and informational television programming is any television programming which furthers the positive development of children or social/emotional needs 16 years of age and under in any respect, including the child's intellectual/cognitive or social/emotional needs.~~

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

EDITOR'S NOTE: Section 73.525 has been so completely revised by Amendment No. 85-328 that the previous wording is not shown.

73.525 TV CHANNEL 6 PROTECTION.

The provisions of this section apply to all applications for construction permits for new or modified facilities for a NCE-FM station on Channels 200-220 unless the application is accompanied by a written agreement between the NCE-FM applicant and each affected TV Channel 6 broadcast station concurring with the proposed NCE-FM facilities.

(a) **AFFECTED TV CHANNEL 6 STATION.**

- (1) An affected TV Channel 6 station is a TV broadcast station which is authorized to operate on Channel 6 that is located within the following distances of a NCE-FM station operating on Channels 201-220:

TABLE A

NCE-FM Channel	Distance (kilometers)	NCE-FM Channel	Distance (kilometers)
201	265	211	196
202	257	212	195
203	246	213	193
204	235	214	187
205	225	215	180
206	211	216	177
207	196	217	174
208	196	218	166
209	196	219	159
210	196	220	154

- (2) Where a NCE-FM application has been accepted for filing or granted, the subsequent acceptance of an application filed by a relevant TV Channel 6 station will not require revision of a pending NCE-FM application or the FM station's authorized facilities, unless the provisions of paragraph (e)(3) of this section for TV translator or satellite stations apply.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(b) EXISTING NCE-FM STATIONS.

- (1) A NCE-FM station license authorized to operate on channels 201-220 as of December 31, 1984, or a permittee, granted a construction permit for a NCE-FM station as of December 31, 1984, are not subject to this section unless they propose either: (Edit. Amdt. 7/22/86)
 - (i) To make changes in operating facilities or location which will increase predicted interference as calculated under paragraph (e) of this section to TV Channel 6 reception in any direction; or,*
 - (ii) To increase its ratio of vertically polarized to horizontally polarized transmissions.*
- (2) Applicants must comply with the provision of paragraphs (c) or (d) of this section unless the application for modification demonstrates that, for each person predicted to receive new interference as a result of a change, existing predicted interference to two persons will be eliminated. Persons predicted to receive new interference are those located outside the area predicted to receive interference from the station's currently authorized facilities ("existing predicted interference area") but within the area predicted to receive interference from the proposed facilities ("proposed predicted interference area"). Persons for whom predicted interference will be eliminated are those located within the existing predicted interference area and outside the proposed predicted interference area.*
 - (i) In making this calculation, the provisions contained at paragraph (e) will be used except as modified by paragraph (b)(3) of this section.*

(*Added 85-328, 6/20/85)

[Next Page is No. 316.1]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (ii) The following adjustment to the population calculation may be made: up to 1,000 persons may be subtracted from the population predicted to receive new interference if, for each person subtracted, the applicant effectively installs two filters within 90 days after commencing program tests with the proposed facilities and, no later than 45 days thereafter, provides the affected TV Channel 6 station (as defined in paragraph (a) of this section) with a certification containing sufficient information to permit verification of such installation. The required number of filters will be installed on television receivers located within the predicted interference area; provided that half of the installations are within the area predicted to receive new interference.*
- (3) Where an NCE-FM applicant wishes to operate with facilities in excess of that permitted under the provisions of paragraphs (c) or (d) of this section, by proposing to use vertically polarized transmissions only, or to increase its ratio of vertically to horizontally polarized transmissions, the affected TV Channel 6 station must be given an option to pay for the required antenna and, if it takes that option, the NCE-FM vertically polarized component of power will be one half (-3 dB) that which would be allowed by the provisions of paragraph (e)(4) of this section.*
- (4) Applications for modification will include a certification that the applicant has given early written notice of the proposed modification to all affected TV Channel 6 stations (as defined in paragraph (a) of this section).*
- (5) Where the NCE-FM station demonstrates in its application that it must make an involuntary modification (e.g., due to loss of its transmitter site) that would not otherwise be permitted under this section, its application will be considered on a case-by-case basis. In such cases, the provisions of paragraph (b)(3) of this section do not apply.*
- (c) **NEW NCE-FM STATIONS.**

Except as provided for by paragraph (d) of this section, applicants for NCE-FM stations proposing to operate on Channels 201-220 must submit a showing indicating that the predicted interference area resulting from the proposed facility contains no more than 3,000 persons.*

- (1) In making these calculations, the provisions in paragraph (e) of this section will be used.*

(*Added 85-328, 6/20/85)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (2) The following adjustment to population may be made: up to 1,000 persons may be subtracted from the population within the predicted interference area if, for each person subtracted, the applicant effectively installs one filter within 90 days after commencing program tests and, no later than 45 days thereafter, provides the affected TV Channel 6 station with a certification containing sufficient information to permit verification of such installation. The required number of filters will be installed on television receivers located within the predicted interference area.*

(d) COLLOCATED STATIONS.

As an alternative to the provisions contained in paragraphs (b) and (c) of this section, an application for a NCE-FM station operating on channels 201-220 and located at 0.4 kilometer (approximately 0.25 mile) or less from a TV Channel 6 station will be accepted under the following requirements:*

- (1) The effective radiated power cannot exceed the following values:*

TABLE B

NCE-FM Channel	Power (kilowatt)	NCE-FM Channel	Power (kilowatt)
201	1.1	211	26.3
202	1.9	212	31.6
203	3.1	213	38.0
204	5.0	214	46.8
205	8.3	215	56.2
206	10.0	216	67.6
207	12.0	217	83.2
208	14.8	218	100.0
209	17.8	219	100.0
210	21.4	220	100.0

- (2) The NCE-FM application will include a certification that the applicant has coordinated its antenna with the affected TV station by employing either: The same number of antenna bays with radiation centers separated by no more than 30 meters (approximately 100 feet) vertically; or, the FM vertical pattern not exceeding the TV vertical pattern by more than 2 dB.*

(*Added 85-328, 6/20/85)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(e) **CALCULATION OF PREDICTED INTERFERENCE AREA AND POPULATION.**

Predictions of interference required under this section and calculations to determine the number of persons within a predicted interference area for NCE-FM operation on Channels 201-220 are made as follows:*

- (1) The predicted interference area will be calculated as follows:
 - (i) The distances to the TV Channel 6 field strength contours will be predicted according to the procedures specified in § 73.684, "Prediction of coverage," using the F(50,50) curves in Figure 9, § 73.699.*
 - (ii) For each TV Channel 6 field strength contour, there will be an associated F(50,10) FM interference contour, the value of which (in units of dBu) is defined as the sum of the TV Channel field strength (in dBu) and the appropriate undesired-to-desired (U/D) signal ratio (in dBu) obtained from Figures 1 and 2, § 73.599, corresponding to the channel of the NCE-FM applicant and the appropriate F(50,50) field strength contour of the TV Channel 6 station.*
 - (iii) An adjustment of 6 dB for television receiving antenna directivity will be added to each NCE-FM interference contour at all points outside the Grade A field strength contour (§ 73.683) of the TV Channel 6 station and within an arc defined by the range of angles, of which the FM transmitter site is the vertex, from 110° relative to the azimuth from the FM transmitter site to the TV Channel 6 transmitter site, counterclockwise to the 250° relative to that azimuth. At all points at and within the Grade A field strength contour of the TV Channel 6 station, the 6 dB adjustment is applicable over the range of angles from 70° clockwise to 110° and from 250° clockwise to 290°.*
 - (iv) The distances to the applicable NCE-FM interference contours will be predicted according to the procedures specified in § 73.313, "Prediction of Coverage," using the proposed antenna height and horizontally polarized, or the horizontal equivalent of the vertically polarized, effective radiated power in the pertinent direction and the F(50,10) field strength curves (Figure 1a, § 73.333).*

(*Added 85-328, 6/20/85)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (v) The predicted interference area will be defined as the area within the TV Channel 6 station's 47 dBu field strength contour that is bounded by the locus of intersections of a series of TV Channel 6 field strength contours and the applicable NCE-FM interference contours. (Added 85-328, 6/20/85)
- (vi) In cases where the terrain in one or more directions departs widely from the surrounding terrain average (for example, an intervening mountain), a supplemental showing may be made. Such supplemental showings must describe the procedure used and should include sample calculations. The application must also include maps indicating the predicted interference area for both the regular method and the supplemental method. (Added 85-328, 6/20/85)
- (vii) In cases where the predicted interference area to Channel 6 television from a noncommercial educational FM station will be located within the 90 dBu F(50,50) contour of the television Channel 6 station, the location of the FM interfering contour must be determined using the assumption that the Channel 6 field strength remains constant at 90 dBu everywhere within the 90 dBu TV contour. The FM to Channel 6 U/D signal strength ratio specified in § 73.599 corresponding to the Channel 6 TV field strength of 90 dBu shall be used.
- (2) The number of persons contained within the predicted interference area will be based on data contained in the most recently published U.S. Census of Population and will be determined by plotting the predicted interference area on a County Subdivision Map of the state published for the Census, and totalling the number of persons in each County Subdivision (such as, Minor Civil Division (MCD), Census County Division (CCD), or equivalent areas) contained within the predicted interference area. Where only a portion of a County Subdivision is contained within the interference area: (Added 85-328, 6/20/85)

[Next Page is No. 316.4a]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (i) The population of all incorporated places or Census designated places will be subtracted from the County Subdivision population; (Added 85-328, 6/20/85)
- (ii) Uniform distribution of the remaining population over the remaining area of the County Subdivision will be assumed in determining the number of persons within the predicted interference area in proportion to the share of the remaining area of the County Subdivision that lies within the predicted interference area; and, (Added 85-328, 6/20/85)
- (iii) The population of the incorporated places or Census designated places contained within the predicted interference area will then be added to the total, again assuming uniform distribution of the population within the area of each place and adding a share of the population proportional to the share of the area if only a portion of such a place is within the predicted interference area. (Added 85-328, 6/20/85)

[Next Page is No. 316.5]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(iv) At the option of either the NCE-FM applicant or an affected TV Channel 6 station which provides the appropriate analysis, more detailed population data may be used.*

(3) Adjustments to the population calculated pursuant to paragraph (e)(2) of this section may be made as follows:

(i) If any part of the predicted interference area is within the Grade A field strength contour (§ 73. 683) of a TV translator station carrying the affected TV Channel 6 station, the number of persons within that overlap area will be subtracted, provided the NCE-FM construction permit and license will contain the following conditions:*

(A) When the TV translator station ceases to carry the affected TV Channel 6 station's service and the cessation is not the choice of the affected TV Channel 6 station, the NCE-FM station will modify its facilities, within a reasonable transition period, to meet the requirements of this section which would have applied if no adjustment to population for translator service had been made in its application.*

(B) The transition period may not exceed 1 year from the date the NCE-FM station is notified by the TV Channel 6 station that the translator station will cease to carry the affected TV Channel 6 station's service or 6 months after the translator station ceases to carry the affected TV Channel 6 station's service, whichever is earlier.*

(ii) If any part of the interference area is within the Grade B field strength contour (§ 73. 683) of a satellite station of the affected TV Channel 6 station, the number of persons within the overlap area will be subtracted, provided the NCE-FM permit and license will contain the following conditions:*

(A) If the satellite station ceases to carry the affected TV Channel 6 station's service and the cessation is not the choice of the affected TV Channel 6 station, the NCE-FM station will modify the facilities, within a reasonable transition period, to meet the requirements of this rule which would have applied if no adjustment to population for satellite station service had been made in its application.*

(*Added 85-328, 6/20/85)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (B) The transition period may not exceed 1 year from the date the NCE-FM station is notified by the TV Channel 6 station that the satellite station will cease to carry the affected TV Channel 6 station's service or 6 months after the satellite station ceases to carry the affected TV Channel 6 station's service, whichever is earlier.
- (iii) If any part of the predicted interference area is located outside the affected TV Channel 6 station's Area of Dominant Influence (ADI), outside the Grade A field strength contour (§ 73.683), and within the predicted city grade field strength contour (§ 73.685(a))* of a TV broadcast station whose only network affiliation is the same as the only network affiliation of the affected TV Channel 6 station, the number of persons within that part will be subtracted. (For purposes of this provision, a network is defined as ABC, CBS, NBC, or their successors.) In addition, the ADI of an affected TV Channel 6 station and the program network affiliations of all relevant TV broadcast stations will be assumed to be as they were on the filing date of the NCE-FM application or June 1, 1985, whichever is later.
- (iv) In calculating the population within the predicted interference area, an exception will be permitted upon a showing (e.g., as survey of actual television reception) that the number of persons within the predicted interference area should be reduced to account for persons actually experiencing co-channel or adjacent channel interference to reception of the affected TV Channel 6 station. The area within which such a showing may be made will be limited to the area calculated as follows:
- (A) The distances to the field strength contours of the affected TV Channel 6 station will be predicted according to the procedures specified in § 73.684, "Prediction of Coverage," using the F(50,50) curves in Figure 9, § 73.699.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (B) For each field strength contour of the affected TV Channel 6 station, there will be an associated co-channel or adjacent channel TV broadcast station interference contour, the value of which (in units of dBu) is defined as the sum of the affected TV Channel 6 station's field strength (in dBu) and the appropriate undesired-to-desired signal ratio (in dBu) as follows:

Co-channel, normal offset, -22 dB

Co-channel, no offset, -39 dB

Adjacent channel, +12 dB

- (C) The distances to the associated co-channel or adjacent channel TV broadcast station interference contour will be predicted according to the procedures specified in § 73.684, "Prediction of coverage," using the F (50,10) curves in Figures 9a, § 73.699.
- (D) The area within which the showing of actual interference may be made will be the area bounded by the locus of intersections of a series of the affected TV Channel 6 station's field strength contours and the associated interference contours of the co-channel or adjacent channel TV broadcast station.

- (4) The maximum permissible effective radiated power (ERP) and antenna height may be adjusted for vertical polarity as follows:
- (i) If the applicant chooses to use vertically polarized transmissions only, the maximum permissible vertically polarized ERP will be the maximum horizontally polarized ERP permissible at the same proposed antenna height, calculated without the adjustment for television receiving antenna directivity specified in paragraph (e)(1)(iii) of this section, multiplied by either: 40 if the predicted interference area lies entirely outside the limits of a city of 50,000 persons or more; or 10 if it does not.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (ii) If the applicant chooses to use mixed polarity, the permissible ERP is as follows: (Added 85-328, 6/20/85)

$[H + V/A]$ is no greater than P

Where:

H is the horizontally polarized ERP in kilowatts for mixed polarity;

V is the vertically polarized ERP in kilowatts for mixed polarity;

A is 40 if the predicted interference area lies entirely outside the limits of a city of 50,000 persons or more, or 10 if it does not; and

P is the maximum permitted horizontally polarized-only power in kilowatts.

(f) CHANNEL 200 APPLICATIONS.

No application for use of NCE-FM Channel 200 will be accepted if the requested facility would cause objectionable interference to TV Channel 6 operations. Such objectionable interference will be considered to exist whenever the 15 dBu contour based on the F(50,10) curves in § 73.333 Figure 1a would overlap the 40 dBu contour based on the F(50,50) curves in § 73.699, (Added 85-328, 6/20/85)

EDITOR'S NOTE: Section 73.558 has been so completely revised by Amendment No. 86-211 that the previous wording is not shown.

73.558 INDICATING INSTRUMENTS.

The requirements for indicating instruments described in § 73.258 are applicable to all educational FM broadcast stations licensed with a transmitter power greater than 0.01 kW.

[Next Page is No. 322.3]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.561 OPERATING SCHEDULE; TIME SHARING.

(a) All noncommercial educational FM stations will be licensed for unlimited time operation except those stations operating under a time sharing arrangement. All noncommercial educational FM stations are required to operate at least 36 hours per week, consisting of at least 5 hours of operation per day on at least 6 days of the week; however, stations licensed to educational institutions are not required to operate on Saturday or Sunday or to observe the minimum operating requirements during those days designated on the official school calendar as vacation or recess periods. (Edit. Amdt. 11/26/82)

(b) All stations, including those meeting the requirements of paragraph (a) of this section, but which do not operate 12 hours per day each day of the year, will be required to share use of the frequency upon the grant of an appropriate application proposing such share time arrangement. Such applications shall set forth the intent to share time and shall be filed in the same manner as are applications for new stations. They may be filed at any time, but in cases where the parties are unable to agree on time sharing, action on the application will be taken only in connection with the renewal of application for the existing station. In order to be considered for this purpose, such an application to share time must be filed no later than the deadline for filing petitions to deny the renewal application of the existing licensee, or, in the case of renewal applications filed by the existing licensee on or before May 1, 1995, no later than the deadline for filing applications in conflict with the such renewal applications. ~~of the existing licensee.~~

- (1) The licensee and the prospective licensee(s) shall endeavor to reach an agreement for a definite schedule of periods of time to be used by each. Such agreement shall be in writing and shall set forth which licensee is to operate on each of the hours of the day throughout the year. Such agreement shall not include simultaneous operation of the stations. Each licensee shall file the same in triplicate with each application to the Commission for initial construction permit or renewal of license. Such written agreements shall become part of the terms of each station's license. (Added 78-384, 10/13/78)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (2) The Commission desires to facilitate the reaching of agreements on time sharing. However, if the licensees of stations authorized to share time are unable to agree on a division of time, the Commission shall be so notified by statement to that effect filed with the application proposing time sharing. Thereafter the Commission will designate the application for hearing on any qualification issues arising regarding the renewal or new applicants. If no such issues pertain, the Commission will set the matter for expedited hearing limited solely to the issue of the sharing of time. In the event the stations have been operating under a time sharing agreement but cannot agree on its continuation, a hearing will be held, and pending such hearing, the operating schedule previously adhered to shall remain in full force and effect. (Added 78-384, 10/13/78)

(c) A departure from the regular schedule set forth in a time-sharing agreement will be permitted only in cases where ~~an~~ a written agreement to that effect is reduced to writing, is signed by the licensees of the stations affected thereby, and is filed in triplicate by each licensee with the Commission, Attention: Audio Services Division, Mass Media Bureau, prior to the time of the proposed change. If time is of the essence, the actual departure in operating schedule may precede the actual filing of written agreement, provided that appropriate notice is sent to the Commission in Washington, DC, Attention: Audio Services Division, Mass Media Bureau.

[Next Page is No. 323]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(d) In the event that causes beyond the control of a permittee or licensee make it impossible to adhere to the operating schedule in paragraphs (a) and (b) of this section or to continue operating, the station may limit or discontinue operation for a period of not ~~exceeding more than~~ 30 days without further authority from the Commission, *Provided, That* notification is sent to the Commission in Washington, DC, Attention: Audio Services Division, Mass Media Bureau, no later than the 10th day of limited or discontinued operation. During such period, the permittee ~~or licensee~~ shall continue to adhere to the requirements of the station license pertaining to the lighting of antenna structures. In the event normal operation is restored prior to the expiration of the 30 day period, the permittee or licensee will ~~so~~ notify the FCC, Attention: Audio Services Division of the date that normal operations resumed. ~~Commission in Washington, D.C., of this date.~~ If the causes beyond the control of the permittee or licensee make it impossible to comply ~~within in~~ the allowed period, Special Temporary Authority (see Section 73.1635) must be requested to remain silent for such additional time as deemed necessary. ~~informal written request shall be made to the Commission in Washington, D.C., no later than the 30th day for such additional time as may be deemed necessary.~~ The license of a broadcasting station that fails to transmit broadcast signals for any consecutive 12 month period expires as a matter of law at the end of that period, notwithstanding any provision, term, or condition of the license to the contrary.

NOTE 1: For allocations purposes, both (all) stations sharing time will be treated as unlimited time stations. (Edit. Amdt. 4/9/85)

NOTE 2: See §§ 73.1705, 73.1715, and 73.1740. (Edit. Amdt. 4/9/85)

73.565 [DELETED] [Edit. Amendment. 10/1/85]

73.567 DETERMINING OPERATING POWER.

The procedures for determining operating power described in § 73.267 are applicable to noncommercial educational FM stations. (Added 79-609, 10/22/79)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.593 SUBSIDIARY COMMUNICATIONS SERVICES.

The licensee of a noncommercial educational FM station is not required to use its subcarrier capacity, but if it chooses to do so, it is governed by §§ 73.293 through 73.295 of the Commission's Rules regarding the types of permissible subcarrier uses and the manner in which subcarrier operations shall be conducted: Provided, however, That remunerative use of a station's subcarrier capacity shall not be detrimental to the provision of existing or potential radio reading services for the blind or otherwise inconsistent with its public broadcasting responsibilities. (Added 83-155, 7/15/83)

EDITOR'S NOTE: Section 73.597 has been so completely revised by Amendment No. 86-211 that the previous wording is not shown.

73.597 FM STEREOPHONIC SOUND BROADCASTING.

A noncommercial educational FM broadcast station may, without specific authority from the FCC, transmit stereophonic sound programs upon installation of stereophonic sound transmitting equipment under the provisions of §§ 2.977, 2.1001, 73.322, and 73.1590 of the FCC's Rules.

73.599 NCE-FM ENGINEERING CHARTS.

This section consists of the following Figures 1 and 2. (Added 85-328, 6/20/85)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

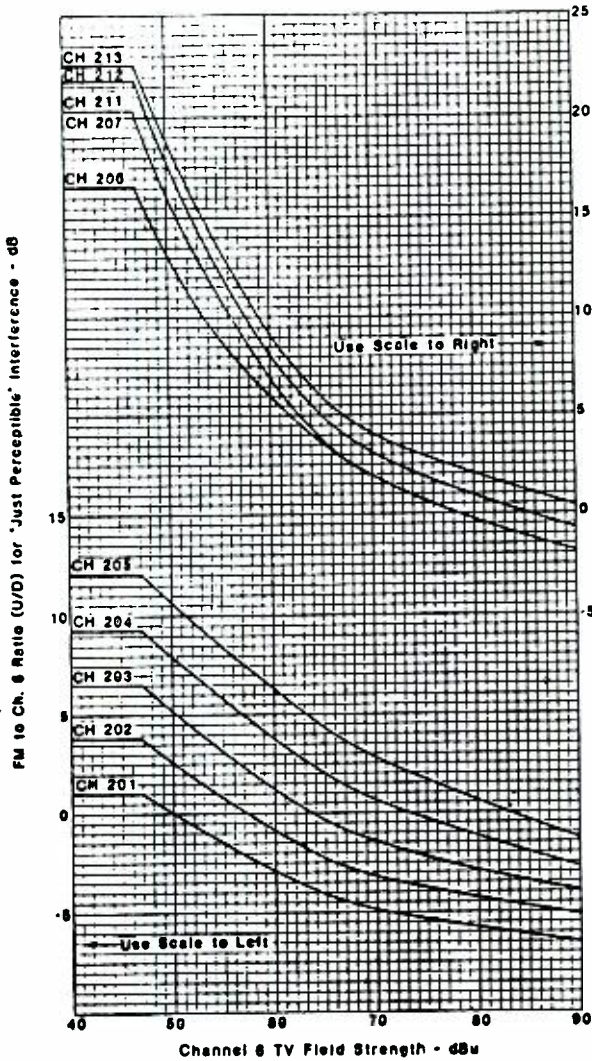


Figure 1
FM/TV 6 PROTECTION RATIOS
BASED ON MEDIAN RECEIVERS
CHANNELS 201-213

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

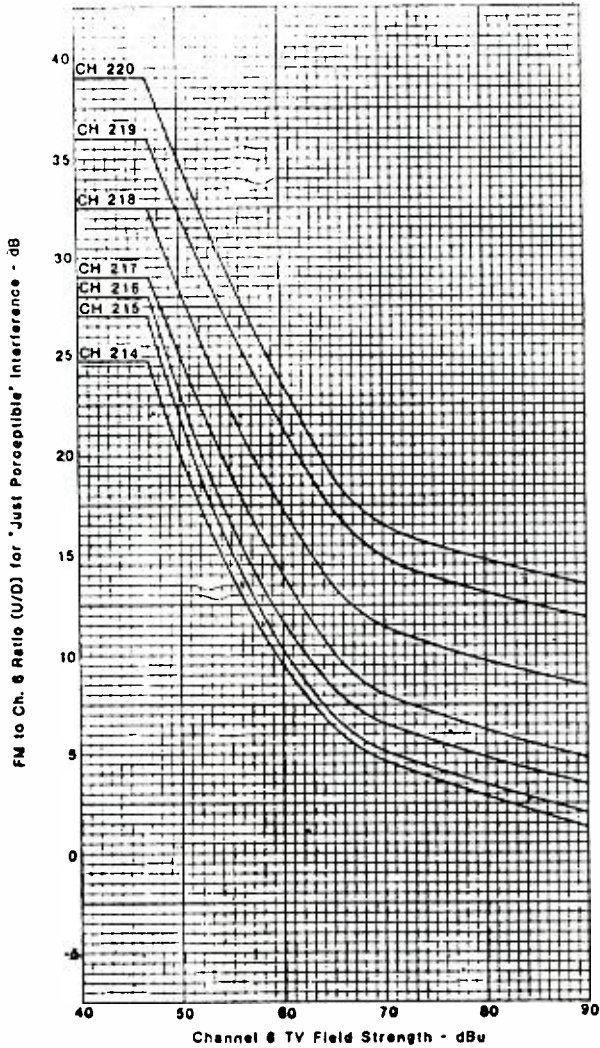


Figure 2
FM/TV 6 PROTECTION RATIOS
BASED ON MEDIAN RECEIVERS
CHANNELS 214-220

[Next Page is No. 351]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

SUBPART D

[RESERVED]

SUBPART E

TELEVISION BROADCAST STATIONS

73.601 SCOPE OF SUBPART.

This subpart contains the rules and regulations (including engineering standards) governing TV broadcast stations, including noncommercial educational TV broadcast stations and, where indicated, low power TV, and TV translator stations in the United States, its Territories and possessions. TV broadcast, low power TV, and TV translator stations are assigned channels 6 MHz-wide, designated as set forth in § 73.603(a). (Revised 82-107, 6/17/82)

73.602 CROSS REFERENCE TO RULES IN OTHER PARTS.

See § 73.1010. (Added 78-502, 8/1/78)

[Next Page is No. 352.1]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.603 **NUMERICAL DESIGNATION OF TELEVISION CHANNELS.**
(a)

CHANNEL NO.	FREQUENCY BAND (MHz)	CHANNEL NO.	FREQUENCY BAND (MHz)
2	54-60	21	512-518
3	60-66	22	518-524
4	66-72	23	524-530
5	76-82	24	530-536
6	82-88	25	536-542
7	174-180	26	542-548
8	180-186	27	548-554
9	186-192	28	554-560
10	192-198	29	560-566
11	198-204	30	566-572
12	204-210	31	572-578
13	210-216	32	578-584
14	470-476	33	584-590
15	476-482	34	590-596
16	482-488	35	596-602
17	488-494	36	602-608
18	494-500	37	608-614
19	500-506	38	614-620
20	506-512	39	620-626

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

CHANNEL NO.	FREQUENCY BAND (MHz)	CHANNEL NO.	FREQUENCY BAND (MHz)
40	626-632	62	758-764
41	632-638	63	764-770
42	638-644	64	770-776
43	644-650	65	776-782
44	650-656	66	782-788
45	656-662	67	788-794
46	662-668	68	794-800
47	668-674	69	800-806
48	641-680		
49	680-686		
50	686-692		
51	692-698		
52	698-704		
53	704-710		
54	710-716		
55	716-722		
56	722-728		
57	728-734		
58	734-740		
59	740-746		
60	746-752		
61	752-758		

EDITOR'S NOTE: Above Chart revised 82-333, 9/15/82.

(b) In Alaska, television broadcast stations operating on Channel 5 (76-82 MHz) and on Channel 6 (82-88 MHz) shall not cause harmful interference to and must accept interference from non-Government fixed operations authorized prior to January 1, 1982. (Revised 82-283, 8/11/82)

(c) Channel 37, 608-614 MHz, is reserved exclusively for the radio astronomy service, ~~until the first Administrator Radio Conference after January 1, 1974, which is competent to review this provision.~~

(d) In Hawaii, the frequency band 488-494 MHz is allocated for non-broadcast use. This frequency band (Channel 17) will not be assigned in Hawaii for use by television broadcast stations. (Added 82-147, 5/20/82)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

~~CHANNEL UTILIZATION~~

73.606 TABLE OF ALLOTMENTS.

(a) GENERAL.

The following table of allotments contains the channels designated for the listed communities in the United States, its Territories, and possessions. Channels designated with an asterisk are assigned for use by noncommercial educational broadcast stations only. A station on a channel identified by a plus or minus mark is required to operate with its carrier frequencies offset 10 kHz above or below, respectively, the nominal carrier frequencies. (Edit. Amdt. 12/8/86)

(b) TABLE OF ALLOTMENTS.

[Next Page is No. 353]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

TABLE OF ALLOTMENTS

STATE	CHANNEL NO.
ALABAMA	
Anniston	40-
Arab	56-
¹ Bessemer	17
Birmingham	6-, *10-, 13-, 42+, *62+, 68-
Demopolis	*41
Dothan	4, 18, *39+, 60-
Dozier	*2-
Florence	15, 26, *36-
Gadsden	44+, 60
Gulf Shores	55
Homewood	21-
Huntsville	19*, 25+, 31+, 48-
Huntsville-Decatur	54
Louisville	*43+
Mobile	5+, 10+, 15+, 21+, *31, *42, 61
Montgomery	12, 20, *26+, 32, 45-, *63
Mount Cheaha	*7-
Munford	*16-
Opelika	50, 66
Ozark	34
Selma	8, 29-
Troy	67
¹ Tuscaloosa	33, *39-
Tuscumbia	52+
Tuskegee	22-

ALASKA

Anchorage	2-, 4-, 5, *7-, *9, 11, 13-, 33
Bethel	*4
Dillingham	*2, 10
Fairbanks	2+, 7+, *9+, 11+, 13+
Juneau	*3, 8, 10
Ketchikan	2, 4, *9
North Pole	4+
Seward	3-
Sitka	13

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

TABLE OF ALLOTMENTS

STATE	CHANNEL NO.
ARIZONA	
Ajo	*23-
Coolidge	*43
Douglas	3, *28
Flagstaff	2, 4+, 9, 13, *16
Globe	*14+
Green Valley	46
Holbrook	11+, *18+
Kingman	6-, *14-
Lake Havasu City	34+
McNary	*22+
Mesa	12-
Nogales	*16+
Page	*17
Parker	*17-
Phoenix	3+, 5-, *8+, 10-, 15-, 21, 33, *39, 45, 61
Prescott	7, *19
Safford	*23+
Sierra Vista	58
Tolleson	51
Tucson	4-, *6+, 9-, 13-, 18-, *27-, 40
Tucson-Nogales	211
Yuma	11-, 13+, *16-
ARKANSAS	
Arkadelphia	*9+
El Dorado	10-, *30+, 43-, 49-
Eureka Springs	34+
Fayetteville	*13-, 36
Fort Smith	5-, 24+, 40-
Gosnell	46
Harrison	31+
Hot Springs	*20, 26
Jonesboro	8-, *19+, 48+
Little Rock	*2-, 4, 7-, 11, 16-, *36, 42
Mountain Home	43+
Mountain View	*6-
Newark	*17
Pine Bluff	25-, 38-
Rogers	51-
Russellville	*28+
<u>**Springdale</u>	<u>57</u>

²Operation on this channel is subject to the conditions, terms, and requirements set out in the report and Order in Docket No. 19075, RM-1645, adopted January 5, 1972, released January 7, 1972, FCC 72-19. (Added 72-19, 1/7/72)

**** Added or revised by above change.**
[Next Page is No. 354.1]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

TABLE OF ALLOTMENTS

STATE	CHANNEL NO.
CALIFORNIA	
Alturas	13+
Anaheim	56-
Arcata	23
Avalon	54
Bakersfield	17, 23-, 29, *39-, 45, 65+
Barstow	*35+, 64
Big Bear Lake	59+
Bishop	*14-, 20+
Blythe	*22-
Brawley	*26
Calipatria	54
Ceres	*23+
Chico	12-, *18, 24+, *46
Clovis	43
Coalinga	*27-
Concord	42
Corona	52
Cotati	*22-
El Centro	7+, 9+
Eureka	3-, 6-, *13-, 29
Fort Bragg	8-
Fresno	*18+, 24, 30+, 47, 53
Hanford	21
Huntington Beach	*50
Indio	*19+
Los Angeles	2, 4, 5, 7, 9, 11, 13, 22, *28, 34, *58-, *68-
Long Beach	18-
Merced	51
Modesto	19-
Norwalk	
Novato	68
Oakland	2+
Ontario	46
Oroville	28
Oxnard	63+
Palm Springs	36-, 42
Paradise	30
Porterville	61
Rancho Palos Verdes	44+
Redding	7, *9, 16
Ridgecrest	*25
Riverside	62

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

TABLE OF ALLOTMENTS

STATE	CHANNEL NO.
CALIFORNIA (Cont'd)	
Sacramento	3, *6, 10, 29-, 31-, 40-, *52
Salinas-Monterey	8+, 35-, 46-, *56, 67-
² San Bernardino	*24-, 30
San Diego	8, 10, *15, 39, 51, 69
San Francisco	4-, 5+, 7-, *9+, 14+, 20-, 26-, *32+, 38, 44-
Sanger	59
San Jose	11+, 36, 48-, *54, 65
San Luis Obispo	6+, *15+, 33
San Mateo	*60
Santa Anna	40
Santa Barbara	3-, 14, ¹ *20, ¹ , 38, *55
Santa Cruz	*16-
Santa Maria	12+, 42+
Santa Rosa	50-, *62
Stockton	13+, 58, 64
Susanville	*14
Twentynine Palms	31
Vallejo-Fairfield	66
Ventura	57
Visalia	26+, *49
Watsonville	*25+
Weaverille	32
Willits	11-
Yosemite Valley	41
Yreka City	*20+

¹Following the decision in Docket No, 18261, channels so indicated will not be available for television use until further action by the Commission.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

TABLE OF ALLOTMENTS

STATE	CHANNEL NO.
COLORADO	
Alamosa	*16
**Boulder	14
**Broomfield	*12
Castle Rock	53
Colorado Springs	11, 13, 21
Craig	*16-
Denver	2, 4-, *6-, 7, 9-, 20, 31, *41, 50, 59
Durango	6+, *20-, 33+
Fort Collins	22-
Glenwood Springs	3-, *19-
Grand Junction	5-, 8-, *18+, 4*, 11+
Gunnison	*17-
La Junta	*22+
Lamar	12-, *14-
Leadville	*15-
Longmont	25
Montrose	10+, *22
Pueblo	5, *8, 26+, 32-
Salida	*23+
Steamboat Springs	24+
Sterling	3, *18+
Trinidad	*24

CONNECTICUT

Bridgeport	43-, *49-
Hartford	3+, 18-, *24, 61+
New Britain	30+
New Haven	8, 59+, 55
New London	26+
Norwich	*53
Waterbury	20

DELAWARE

Dover	*34
Seaford	38, *64
Wilmington	*12, 61

DISTRICT OF COLUMBIA

**Washington	4-, 5-, 7+, 9, 20+, *26-, *32+, 50
--------------	------------------------------------

** Added or revised by above change.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

TABLE OF ALLOTMENTS

STATE	CHANNEL NO.
FLORIDA	
Boca Raton	*63
Bradenton	*19, 66
Bunnell	58
Cape Coral	36
Clearwater	22
**Clermont	18-
**Cocoa	52, *68
Crystal River	39-
Daytona Beach	2-, 26
Destin	64+
Fort Lauderdale	51
Fort Myers	11+, 20+, *30
Fort Pierce	*21-, 34
Fort Walton Beach	35, 53, 58
Gainesville	*5-, 20, 61+
High Springs	53+
Hollywood	69
Inverness	64
Islamorada	*9+
Jacksonville	4+, *7, 12+, 17, 30+, 47-, *59
Kenansville	31
Key West	8, *13, 22+
Lake City	*41
Lake Worth	67
Lakeland	32
Leesburg	*45-, 55
Live Oak	57-
Madison	*36-
Marathon	16+
Marianna	*16+, 51
Melbourne	43+, 56
Miami	*2, 4, 6, 7-, 10+, *17-, 23-, 33, 35, 39, 45+
Naples	26-, 46
New Smyrna Beach	*15+
Ocala	*29, 51-
Orange Park	25-
Orlando	6-, 9, *24-, 27, 35+, 65
Palatka	*42, 63+
**Palm Beach	61
Panama City	7+, 13, 28-, *56, 46
Panama City Beach	46
Pensacola	3-, *23, 33+, 44

** Added or revised by above change.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

TABLE OF ALLOTMENTS

STATE	CHANNEL NO.
FLORIDA (Cont'd)	
St Petersburg	10-, 38, 44+
Sarasota	40
Sebring	*48, 60
Stuart	59
Tallahassee	*11-, 24, 27+, 40+
Tampa	*3, 8-, 13-, *16, 28, 50
Tequesta	25
Tice	49
Venice	62
**West Palm Beach	5, 12, 29+, *42+
GEORGIA	
Albany	10, 19-, 31-, 52-
Ashburn	*23+
Athens	*8-, 34
Atlanta	2, 5-, 11+, 17-, *30, 36, 46-, *57+, 69
Augusta	6+, 12-, 26, 54-
Bainbridge	49
**Baxley	34
Brunswick	21+
Carrollton	*49-
Carnesville	*52
Cedartown	*65-
Chatsworth	*18-
Cochran	*29+
Columbus	3, 9+, *28, 38+, *48, 54+
Cordele	55+
Dalton	23
Dawson	*25
Draketown	*27-
Elberton	*60+
Flintstone	*41-
Lafayette	*35
Macon	13+, 24+, 41+, *47+, 64-
Monroe	63
Pelham	*14-
Perry	58+
Rome	14+
Royston	*22+
**Savannah	3, *9-, 11, 22

** Added or revised by above change.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

TABLE OF ALLOTMENTS

STATE	CHANNEL NO.
GEORGIA (Cont'd)	
Thomasville	6
Toccoa	32-, *68-
Valdosta	*33, 44-
Vidalia	*18+
Warner Robbins	35-
Waycross	*8+
Wrens	*20-
Young Harris	*51-
HAWAII	
Hilo (Hawaii)	2, *4, 9, 11, 13, 14+, 20+, 26+, *32+, *38+
Honolulu (Oahu)	2+, 4-, 5, 9-, *11+, 13-, 14, 20, 26, 32, *38, *44
¹ Kailua-Kona (Hawaii)	6, 50
Kaneohe	66+
Lihue (Kauai)	3+, *8-, 10+, 12-, 15-, *21-, *27-, *67
Wailuku (Maui)	3, 7, *10, 12, 15, 21, *27, *33, 39
² Waimanalo	56
IDAHO	
Boise	2, *4+, 7, 14
Burley	*17+
Caldwell	9-
Coeur d'Alene	*26+
Filer	*19-
Grangeville	*15-
Idaho Falls	3, 8+, 20, *33+
Lewiston	3-
Moscow	*12-
Nampa	6, 12+
Preston	*28
Pocatello	6-, *10, 15, 25+, 31-
Sandpoint	*16+
Sun Valley	5-
Twin Falls	11, *13-, 35
Weiser	*17

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

TABLE OF ALLOTMENTS

STATE	CHANNEL NO.
ILLINOIS	
Aurora	60
Bloomington	43
Carbondale	*8
Champaign	3+, 15-
Charleston	*51+
Chicago	2-, 5, 7, 9+, *11, *20, 26, 32, 38-, 44
Danville	68
Decatur	17, 23-
DeKalb	*33, *48-
East St. Louis	46
Edwardsville	*18-
Elgin	*66+
Freeport	23, *65-
Galesburg	67
Harrisburg	3
Jacksonville	*14
Joliet	14-, 66+
Kankakee	*54-
LaSalle	35
Macomb	*22+
Marion	27
Moline	8, *24-
Mount Vernon	13+
Olney	*16-
Paris	46+
Peoria	19, 25+, 31+, *47-, 59+
Pontiac	53
Quincy	10-, 16+, *27+
Rockford	13, 17+, 39
Rock Island	4+
Springfield	20+, 49-, 55+, *65+
Streator	*63
Urbana	*12-, 27-
Vandalia	*21

¹Following the decision in Docket No. 18261, channels so indicated will not be available for television use until further action by the Commission.

⁴This channel is not available for use as Elgin unless and until it is determined by the Commission that it is not needed for use at Joliet, Ill.

** Added or revised by above change.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

TABLE OF ALLOTMENTS

STATE	CHANNEL NO.
INDIANA	
Anderson	67+
Angola	63
Bloomington	4, *30-, 42+, 63+
Elkhart	28+
Evansville	7, *9+, 14-, 25-, 44
Fort Wayne	15+, 21+, 33-, *39-, 55
Gary	50, *56+
Hammond	62+
Indianapolis	6, 8-, 13-, *20-, 40, 59-, *69
Kokomo	29-
Lafayette	18, *24
Madison	*60+
Marion	23
Muncie	49, *61
Richmond	43+
Salem	58+
South Bend	16, 22, *34-, 46
Terre Haute	2+, 10, *26-, 38
Vincennes	*22-
IOWA	
Ames	5, 23-, *34+
Burlington	26-, *57-
Carroll	*18-, 30+, 52
Cedar Rapids	2, 9-, 28+, 48-
Centerville	*31-
Council Bluffs	*32
Davenport	6+, 18+, 30-, *36+
Decorah	*14+
Des Moines	8-, *11+, 13-, 17+, *43-, 63-, 69
Dubuque	16-, *29-, 40-
Estherville	*49+
Fort Dodge	*21
Fort Madison	*38+
Hampton	50
High Point	*14-
Iowa City	*12+, 20-
Keokuk	*44+
Keosauqua	*54+
Lansing	*41+
Mason City	3+, *24+
Mount Ayr	*25-

** Added or revised by above change.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

TABLE OF ALLOTMENTS

STATE	CHANNEL NO.
IOWA (Cont'd)	
Newton	39+
Ottumwa	15+, *33-
Red Oak	*36
Rock Rapids	*25+
Sibley	*33
Sioux City	4-, 9, 14, *27-, 44
Spirit Lake	*38
Waterloo	7+, 22-, *32-
KANSAS	
Chanute	*30+
Cimarron	23
Colby	4
Columbus	*48-
Dodge City	*21-
Emporia	*25+
Ensign	6+
Fort Scott	20+
Graden City	11+, 13-, *18
Goodland	10
Great Bend	2
Hays	7-, *9
Hoisington	14
Hutchinson	*8, 12, 36+
Junction City	31
Lakin	*3
Lawrence	38
Liberal	5+
Manhattan	*21
Oakley	*15-
Parsons	*39
Phillipsburg	*22-
Pittsburg	7+, 14
Pratt	*32+
Salina	18+, 34-, 44
Sedan	*28
Topeka	*11, 13+, 27, 43, 49
Wichita	3-, 10-, *15+, 24-, 33, *42

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

TABLE OF ALLOTMENTS

STATE	CHANNEL NO.
KENTUCKY	
Ashland	*25, 50-, 61+
Beattyville	65
Blanco	52+
Bowling Green	13, *24-, 40+, *53-, 59+
Campbellsville	34
Covington	*54+
Danville	56
Elizabethtown	*23+
Harlan	44-
Hazard	*35+, 57-
Hopkinsville	51
Lexington	18+, 27-, 36, *46, 62
Louisville	3-, 11, *15, 21-, 32-, 41+, *68+
Madisonville	19-, *35-, 57+
Morehead	*38+, 67-
Murray	*21+, 38
¹ Newport	19+
Owensboro	31-, 48, 61+
Owenton	*52+
Paducah	6+, 29, 49
Paintsville	69+
Pikeville	*22-, 51+
Somerset	16, *29+
LOUISIANA	
Alexandria	5, *25+, 31+, 41+
Baton Rouge	2, 9-, *27+, 33-, 44+
Columbia	11+
De Ridder	*23-
Hammon	62+
Houma	11
Lafayette	3+, 10, 15, *24
Lake Charles	7-, *18-, 29-
Minden	21+
¹ Monroe	8+, *13
Morgan City	*14+
Natchitoches	*20+
New Iberia	36-
New Orleans	4+, 6, 8-, *12, 20-, 26, *32+, 38+, 49
Shreveport	3-, 12, *24-, 33, 45+
Slidell	54+
Tallulah	*19
¹ West Monroe	14-, 39+

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

TABLE OF ALLOTMENTS

STATE	CHANNEL NO.
MAINE	
Augusta	*10-
Bangor	2-, 5+, 7-
Biddeford	*26-
Calais	*13-
Fort Kent	*46+
Fryeburg	*18+
Houlton	*25+
Kittery	*39
Lewiston	35-
Millinocket	*44-
Orono	*12-
Poland Spring	8-
Portland	6-, 13+, 51
Presque Isle	8, *10+, 62+
Rumford	*43+
Waterville	23-
MARYLAND	
Annapolis	*22+
Baltimore	2+, 11-, 13+, 24+, 45, 54, *67-
Cumberland	52+, 65
Frederick	*62
Hagerstown	25-, *31, 68+
Oakland	*36+
Salisbury	16+, *28-, 47-
Waldorf	*58+
MASSACHUSETTS	
Adams	19
Boston	*2+, 4+, 5-, 7+, 25+, 38, *44, 56, 68+
Cambridge	56
Greenfield	32+
Lawrence	62
Marlborough	66
New Bedford	6+, 28-, *34
North Adams	*35
Norwell	46+
Pittsfield	51+
Springfield	22, 40, *57+
Vineyard Haven	58+
Worcester	14, 127, *48+

** Added or revised by above change.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

**TABLE OF ALLOTMENTS
CHANNEL NO.**

STATE**MICHIGAN**

Alpena	*6, 11
Ann Arbor	31+, *58+
Bad Axe	*15-, 41-
Battle Creek	41+, 43-
Bay City	5-, 61+
Cadillac	9, *27, 33
Calumet	5-, *22-
Cheboygan	4+
Detroit	2+, 4, 7-, 20+, 50-, *56, 62
East Lansing	*23-, *69-
Escanaba	3+
Flint	12-, *28-, 66-
Grand Rapids	8+, 13+, 17-, *35+
Iron Mountain	8-, *17+
Ironwood	*15-, 24+
**Ishpeming	10
Jackson	18+
Kalamazoo	3-, *52+, 64
Lansing	6-, 47, 53-
Mainstee	*21
Manistique	*15+
Marquette	6-, *13, 19
Mount Clemens	38+
Mount Pleasant	*14
Muskegon	54+
Onondaga	10-
Petoskey	*23+
Port Huron	46+
Saginaw	25-, 49-
Sault Ste. Marie	8, 10+, *32-
Traverse City	7+, 29-
University Center	*19+
West Branch	*24

¹Following the decision in Docket No. 18261, channels so indicated will not be available for television use until further action by the Commission.

**** Added or revised by above change.**

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

TABLE OF ALLOTMENTS
STATE CHANNEL NO.

MINNESOTA

Alexandria	7, *24, 42
Appleton	*10-
Austin	6-, *15-
Bemidji	*9, 26+
Brainerd	*22
Crookston	*33
Duluth	3, *8, 10+, 21+, 27-
Ely	*17-
Fairmont	*16+
Hibbing	13-, *18-
International Falls	11, *35+
Mankato	12, *26-
Marshall	*30-
Minneapolis-St Paul	*2-, 4+, 5-, 9+, 11-, *17, 23+, 29+, 45
Redwood Falls	43
Rochester	10, 47-
St. Cloud	19, *25-, 41
St. James	32+
Thief River Falls	10, *30
Vanderbilt	45
Wadena	*20-
Walker	12-, 38-
Wilmar	*14-
Winona	*35+, 44-
Worthington	*20

MISSISSIPPI

Biloxi	13+, *19+
Booneville	*12-
Bude	*17+
Clarksdale	*21
Cleveland	*31-
Columbia	*45
Columbus	4-, *43
Greenville	15-, 44
Greenwood	6+, *23+
Grenada	22+
Gulfport	25-
Hattiesburg	22, *47
Holly Springs	40
Houston	45+
Jackson	3, 12+, 16, *29+, 40+, 51
Laurel	7, 18+

** Added or revised by above change.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

TABLE OF ALLOTMENTS
STATE CHANNEL NO.

MISSISSIPPI (Cont'd)

Magee		34+
Meridian		11-, *14, 24-, 30-
Mississippi State		*2+
Natchez		*42+, 48
Oxford		*18
Senatobia		*34-
Tupelo		9-, 35+
Vicksburg		35-
West Point	27	
Wiggins		43-, 56+
Yazoo City		*32-

MISSOURI

Birchtree		*20-
Bowling Green		*35+
Cape Girardeau		12, 23, *39
Carrollton		*18
Columbia		8+, 17-, *23+
Flat River		*22
Hannibal		7-
Jefferson City		13, 25, *36-
Joplin		12+, 16, *26-
Kansas City		32-
King City		*28-
Kirksville		3-
LaPlata		*21+
Lowry City		*15-
Poplar Bluff		15+, *26+, 55
Rolla		*28
St. Joseph		2-, 16-, 22
St. Louis		2, 4-, 5-, *9, 11-, 24+, 30+, *40-, *46
Sedalia		6
**Sikeston		45
Springfield		3+, 10, *21-, 27-, 33-

** Added or revised by above change.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

TABLE OF ALLOTMENTS
CHANNEL NO.

STATE

MONTANA

Anaconda	2+
Billings	2-, 6, 8, *11, 14, 20+
Bozeman	7-, *9
Butte	*2+, 4, 6+, 18, 24
Cut Bank	*14-
Dillon	*14+
Glendive	5+, 13+, *16-
Great Falls	3+, 5+, 16, 26, *32
Hardin	4+
Harve	9+, 11-, *18-
Helena	10+, 12, *15+
Joplin	35-, 48, 54-
Kalispell	9-, *29-
Lewistown	13
Miles City	3-, *10
Missoula	8-, *11+, 13-, 17-, 23-
Wolf Point	*17+

NEBRASKA

¹ Albion	18, *21+, 24+
Alliance	*13-
Bassett	*7-
Beatrice	23+
Falls City	*24
Grand Island	11-, 17
Hastings	5-, *29+
Hayes Center	6
Hay Springs-Scottsbluff	4+
Kearney	13
Lexington	*3+
Lincoln	8+, 10+, *12-, 45, 51
McCook	8-, 16+, 12
Merriman	*12
Norfolk	*19+
Omaha	3, 6+, 7, 15, *26, 42+, *48-, 54
Orchard	16
Pawnee	33+
Scottsbluff	10-, 16
Superior	4+

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

STATE TABLE OF ALLOTMENTS
CHANNEL NO.

NEVADA

Elko	10-, *14+
Ely	3-, 6+
Fallon	*25
Goldfield	7-
² Henderson	5+
Las Vegas	3, 8-, *10+, 13-, 15+, 21+, 33+
McGill	*13
Paradise	39+
Pawnee City	*33+
Reno	2, 4, *5, 8, 11, 21+, 27+
Tonopah	9-, *17+
Winnemucca	7+, *15-
Yerington	*16+

NEW HAMPSHIRE

Berlin	*40-
Concord	21+
² Derry	50-
Durham	*11
² Hanover	*15+
Keene	*52+
Littleton	49+
² Manchester	9-
² Merrimack	60+
Portsmouth	¹ 17-

NEW JERSEY

Atlantic City	*36, 53+, 62-
Burlington	48-
Camden	*23+
² Linden-Newark	47+
² Montclair	*50+
Newark	13-, 68
² New Brunswick	*58
Newton	63
Paterson	41-
Secaucus	9+
Trenton	*52-
Vineland	59-, 65-
West Milford	*66-
Wildwood	40

¹Following the decision in Docket No. 18261, channels so indicated will not be available for television use until further action by the Commission.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

TABLE OF ALLOTMENTS

STATE	CHANNEL NO.
NEW MEXICO	
Alamogordo	*18-
Albuquerque	4+, *5+, 7+, 13+, 14-, 23-, *32+, 41, 50
Carlsbad	6-, *15+, 25-
Clayton	*17
Clovis	12-
Deming	*16
¹ Farmington	3, 12+, *15+
¹ Gallup	*8-, 10
Hobbs	29+
Las Cruces	*22-, 48+
Lovington	*19
Portales	*3+
Raton	*18-
Roswell	8, 10-, 21-, 27-, *33+
Santa Fe	2+, *9+, 11-, 19-
Silver City	6, 10+, *12
Socorro	*15-
Tucumcari	*15

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

TABLE OF ALLOTMENTS

STATE	CHANNEL NO.
NEW YORK	
Albany-Schenectady	6, 10-, 13, *17+, 23-, *29+, 45
Amsterdam	*39+, 55
Arcade	62-
Batavia	51-
Bath	14-
Binghamton	12-, 34, 40-, *46+
Buffalo	2, 4, 7+, 17, *23, 29-, 49-
Carthage	7-
Corning	*30, 48+
Elmira	18+, 36-
Garden City	*21-
Glens Falls	*58-
Ilion	67-
Ithaca	52, *65+
Jamestown	26+, *46
Kingston	62+
Lake Placid	*34+
New York	2, 4, 5+, 7, 11+, *25, 31-
North Pole	5
Norwood	*18
Oneonta	115, *42
Plattsburg	*57
Poughkeepsie	54+
Riverhead	55+
Rochester	8, 10+, 13-, *21, 31+, *61+
Saranac Lake	61-
Smithtown	67
Springville	67+
Syracuse	3-, 5-, 9-, *24+, 43+, 56+, 62+
Utica	2-, 4-, 20+, 33, *59
Watertown	*16, 50+
² Waverly	*57-

¹Following the decision in Docket No. 18261, channels so indicated will not be available for television use until further action by the Commission.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

TABLE OF ALLOTMENTS

STATE	CHANNEL NO.
NORTH CAROLINA	
Andrews	*59
Asheville	13-, 21+, *33, 62+
Belmont	46+
Bryson City	*67
Burlington	16
Canton	*27
Chapel Hill	*4+
Charlotte	3, 9+, 18, 36, *42+
Columbia	*2
Concord	*58
Cullowhee	50+
Durham	11+, 28+
Fayetteville	40+, 62
Forest City	66*
Franklin	*56+
Goldsboro	17-
**Greensboro	2-, 48-, 61
Greenville	9-, 14, *25, 38+
Hickory	14-
High Point	8-, *32+, 67+
Jacksonville	*19, 35
Kannapolis	64-
Laurel Hill	59+
Lexington	20
Linville	*17
Lumberton	*31
Manteo	4
Morehead City	8+
Morganton	23-
New Bern	12+
Raleigh	5, 22, *34, 50+
Roanoke Rapids	*36-
Rockingham	*53
Rocky Mount	47+
Washington	7
Waynesville	59
Wilmington	3-, 6, 26-, *39-
Wilson	30-
Winston-Salem	12, *26+, 45

** Added or revised by above change.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

TABLE OF ALLOTMENTS
CHANNEL NO.

STATE
NORTH DAKOTA

Bismarck	*3, 5, 12-, 17-, 26+
Devils Lake	8+, *22+
Dickinson	2+, *9-, 7
Ellendale	*19 -
Fargo	6, 11+, *13, 15-
Grand Forks	*2, 14+, 27+
Jamestown	7-, *23
Minot	*6+, 10-, 13-, 14-, 24
Pembina	12
Valley City	4-
Williston	*4, 8-, 11, *15-

OHIO

Akron	23+, *49+, 55-
Alliance	*45+
Ashtabula	115
Athens	20*, 63-
Bowling Green	*27+
Cambridge	*44-
Canton	17-, 67
Chillicothe	53
**Cincinnati	5-, 9, 12, *48-, 64-
**Cleveland	3, 5+, 8, *25+, 61
Columbus	4-, 6+, 10+, 28-, *34, *56-
Dayton	2, 7+, *16+, 22+, 45
Defiance	65+
Hillsboro	*24+, 55+
Lima	35-, 44+, *57+, 17
Lorain	43
Mansfield	*47+, 68-
Newark	*31-, 51
Oxford	*14+
Portsmouth	30, *42-
Sandusky	52
**Shaker Heights	19
Springfield	26+, *66
Steubenville	9+, *62+
Toledo	11-, 13, 24-, *30+, 36-, 40-
Xenia	32
Youngstown	21-, 27, 33, *58
Zanesville	18-

¹Following the decision in Docket No. 18261, channels so indicated will not be available for television use until further action by the Commission.

** Added or revised by above change.

[Next Page is No. 355]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

TABLE OF ALLOTMENTS

STATE	CHANNEL NO.
OKLAHOMA	
Ada	10+, *22
Altus	*27
Ardmore	¹ *17, *28-
Bartlesville	17+
Cheyenne	12+
Claremore	*35
Duncan	40+
Elk City	*15-, 31
Enid	20-, *26+
Eufaula	*3
Grove	45+
Guymon	9+, *16
Hugo	42+, ¹ *15+, *48+
Lawton	7+, *36-, 16-, 45
McAlester	*32-
Miami	*18-
Muskogee	19
Norman	46-
Oklahoma City	4-, 5, 9-, *13, 14-, 25-, 34-, 43+, 52, 62+
Okmulgee	44-
Sayre	8+
Shawnee	30
Tulsa	2+, 6+, 8-, *11-, 23, 41+, 47, 53, *63
² Woodward	*17-,35+
OREGON	
Astoria	*21
Bend	*3+, *15, 21+
Brookings	*14-
Burns	*18
Coos Bay	11, 23+, 41
Corvallis	*7-
Eugene	9+, 13, 16+, *28-, 34
Grants Pass	*18+, 30+
Klamath Falls	2-, *22+, 31
LaGrande	*13+, 16
Medford	5, *8+, 10+, 12+, 26+
North Bend	*17+
Pendleton	11-
Portland	2, 6+, 8-, *10, 12, 24+, *30, 40-
Roseburg	4+, 36, 46+
Salem	22, 32
The Dalles	*17-

¹Following the decision in Docket No, 18261, channels so indicated will not be available for television use until further action by the Commission.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

TABLE OF ALLOTMENTS

STATE	CHANNEL NO.
PENNSYLVANIA	
Allentown	*39, 69
Altoona	10-, 23-, 47, *57+
Bethlehem	60-
Clearfield	*3+
Erie	12, 24, 35+, *54+, 66+
Greensburg	40+
Harrisburg	21+, 27-, *33+
Hazleton	56
² Jeannette	19+
Johnstown	6, 8-, 19+, *28+
Lancaster	8+, 15+
Lebanon	55-
Philadelphia	3, 6-, 10, 17-, 29, *35-, 57
Pittsburgh	2-, 4+, 11, *13-, *16, 22, 53+
Reading	51
Red Lion	49+
Scranton	16-, 22-, 38+, *44-, 64
State College	29+, *59+
Wilkes Barre	28
Williamsport	¹ 20-, 53-
York	43
RHODE ISLAND	
Block Island	69-
Providence	10+, 12+, ¹ 16, *36, 64+
SOUTH CAROLINA	
Aiken	*44
Allendale	*14
Anderson	40
Beauford	*16-
Charleston	2+, 4, 5+, *7-, 24, 36+
Columbia	10-, 19+, 25-, *35+, 47, 57-
Conway	*23+
Florence	13+, 15-, 21, *33+
Georgetown	*41-
Greenville	4-, 16+, *29
Greenwood	*38, 48+
Hardeeville	28-
Myrtle Beach	32, 43+
Rock Hill	30+, 55-
Spartanburg	7+, 49
Sumter	*27-, 63-

¹Following the decision in Docket No. 18261, channels so indicated will not be available for television use until further action by the Commission.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

TABLE OF ALLOTMENTS

STATE	CHANNEL NO.
SOUTH DAKOTA	
Aberdeen	9-, *16-
Allen	22+
Brookings	*8
Eagle Butte	*13
Florence	3-
Huron	12+
Lead	5-, 11+
Lowry	*11-, 56, 62+, 68-
Martin	*8-
Mitchell	5+
Pierre	4, *10+
Rapid City	3+, 7+, *9, 15-, 21-
Reliance	6-
Seneca	*2-
Sioux Falls	11, 13+, 17-, *23, 36+, 46
Vermillion	*2+
TENNESSEE	
Athens	*24
Chattanooga	3+, 9, 12+, *45, 61-
Cleveland	53
Cookeville	*22, 28+
Crossville	20+, *55+
Fayetteville	*29-
Greeneville	39-
Hendersonville	50
Jackson	7+, 16+, *32+
Jellico	54-
Johnson City	11-, *41
Kingsport	19
Knoxville	6, 8, 10+, *15-, 26-, 43+
Lebanon	66-
Lexington	*11+
Livingston	60-
McMinnville	33+
¹ Memphis	3-, 5+, *10+, 13+, *14+, 24, 30, 50+, 56*
Murfreesboro	39+
Nashville	2-, 4+, 5, *8+, 17+, 30+, *42, 58
Sneedville	*2+
Tazewell	48+
Tullahoma	64+
Union City	41

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

TABLE OF ALLOTMENTS

STATE	CHANNEL NO.
TEXAS	
Abilene	9+, 15, *26+, 32+
Alpine	12-
Alvin	67
Amarillo	*2+, 4, 7, 10, 14+
Austin	7+, *18+, 24, 36, 42-, 54
Bay City	*43+
Baytown	57+
Beaumont	6-, 12-, 21, *34-
'Belton	46-
Big Spring	4-, *14
Blanco	52+
Boquillas	8-
Brady	13
Brownsville	23
Bryan	3,28
Childress	*21
College Station	*15, 50-
Conroe	49+, 55+
Corpus Christi	3-, 6, 10-, *16, 28-, 38+
Crockett	40
Dallas	4+, 8, *13+, 27-, 33+, 39, 58
Decatur	29
Del Rio	10, *24+
Denton	*2
Eagle Pass	16+
El Paso	4, 7, 9, *13, 14, 26+, *38-, 65
Farwell	18+
Fort Stockton	5+
Forth Worth	5+, 11-, 21-, *31+, 52-
Fredericksburg	2+
Galveston	*22, 48
'Garland	23
Greenville	47+
Harlingen	4+, *44, 60
Houston	2-, *8, 11+, 13-, *14, 20, 26, 39-, 61
Irving	49
Jacksonville	56
Katy	51+
Kennville	35+
Killeen	62
Lake Dallas	55
Laredo	8, 13, 27-, *39
Liano	14-
Longview	16+, 51-, 54+
Lubbock	*5, 11, 13-, 16+, 28, 34-
Lufkin	9

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

TABLE OF ALLOTMENTS
CHANNEL NO.STATE
TEXAS (Cont'd)

McAllen	48
Marfa	3
Marshall	*22-, 35+
Midland	2-, 18
Mineola	64+
Monahans-Odessa	9-
Nacogdoches	19-, *32
Odessa	7-, 24-, 30, *36+, 42
Palestine	43
Paris, Texas	36+, 42+
Port Arthur	4-
Presidio	7+
Rio Grande City	40
Rosenberg	45
San Angelo	3-, 6, 8+, *21+
San Antonio	4, 5, *9-, 12+, *23-, 29+, 41+, 60+
**Sherman	12-, 20-, *26-
**Snyder	17-
Sonora	11+
Sulphur Springs	18
Sweetwater	12
**Temple	6+
Texarkana	6, 17-, *34
Tyler	7, 14+, *38, 60
Uvalde	26-
Victoria	19+, 25, 31, *47
Waco	10+, 25+, *34+, 44-
Weslaco	5-
Wichita Falls	3+, 6-, 18-, *24
Wolfforth	22-

** Added or revised by above change.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

TABLE OF ALLOTMENTS
 CHANNEL NO.

STATE

UTAH

Cedar City	4, *16+
Logan	12-, *22
Moab	*14+
Monticello	*16-
Ogden	*9+, *18-, 24, 30
Price	3+, *15
Provo	*11-, 16, 32
Richfield	8+, *19
Salt Lake City	2-, 4-, 5+, *7-, 13+, 14-, 20+, *26-
St. George	12, *18-
Vernal	6, *17+

VERMONT

Burlington	3, 22+, *33-, 44+
Hartford	31
Rutland	*28+
St. Johnsbury	*20-
Windsor	*41

VIRGINIA

Arlington	14-
Ashland	65+
Blacksburg	*43, 65-
Bristol	5+, *28-
Bluefield	*63+
Charlottesville	29-, *41-, 64+
Courtland	*52
Danville	24-, 44+, *56
Farmville	*31-
Fairfax	*56-
Fredericksburg	69+
Front Royal	*42
Goldvein	*53
Grundy	68
Harrisonburg	3-
Lynchburg	13, 21-, *54+
Manassas	66+
Marion	*52-
Norfolk-Portsmouth-Newport	3+, 10+, 13-, *15, 27, 33, 49-, *55+
News-Hampton	
Norton	*47-
Onancock	*25+
Petersburg	8
Richmond	6+, 12-, *23, 35+, *57-, 63
Roanoke	7-, 10, *15+, 27+, 38-, 60
Staunton	*51-
¹ Virginia Beach	43+, 21+
West Point	*46

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

TABLE OF ALLOTMENTS

STATE	CHANNEL NO.
WASHINGTON	
Anacortes	64
Bellevue	33+, 51+
Bellingham	12+, 24, *34
Centralia	*15+
East Wenatchee	249A
Everett	16-
Kennewick	42+
Morton	39
Olympia	67
Pasco	19-
Pullman	*10-, 24+
Richland	25, *31
Rochester	26+
Seattle	4, 5+, 7, *9, 22+, 45+, *62
Spokane	2-, 4-, 6-, *7+, 22, 28-, 34-
Tacoma	11+, 13-, 20, *28, *56
Vancouver	*14, 49
² Walla Walla	9+
Wenatchee	*18+, 27
Yakima	23+, 29+, 35, *47
WEST VIRGINIA	
Bluefield	6-, 40-
Charleston	8+, 11+, 23, 29, *49-
Clarksburg	12+, 46-
Fairmont	66-
Grandview	*9-
Huntington	3+, 13+, *33+
Keyser	*30+
Lewisburg	59
Martinsburg	*44, 60+
Morgantown	*24-
Oak Hill	4
Parkersburg	15-, 39+, *57
Weirton	*50+
Weston	5
Wheeling	7, ¹ 14, *41
Williamson	*31+

¹Following the decision in Docket No, 18261, channels so indicated will not be available for television use until further action by the Commission.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

TABLE OF ALLOTMENTS

STATE	CHANNEL NO.
WISCONSIN	
¹ Antigo	46
Appleton	32+
Bloomington	*49
Chippewa Falls	48
Crandon	4
Eagle River	34
Eau Claire	13+, 18
Fond du Lac	68
Green Bay	2+, 5+, 11+, 26+, *38, 44+
Highland	*51
Janesville	57+
Kenosha	55-
Kieler	*46+
LaCrosse	8+, 19+, 25, *31
Madison	3, 15, *21-, 27+, 47+
Manitowoc	16+
Marshfield	39-
Mayville	52
Menomonie	*28-
Milwaukee	4-, 6, *10+, 12, 18-, 24+, 30, *36, 58
Oshkosh	22+, *50+
Park Falls	*36+
Racine	49+
Rhineland	12+
Rice Lake	16
Richland Center	45+
Sheboygan	28
Sturgeon Bay	42
Superior	6+, 40
Suring	14-
Tomah	43
Wausau	7-, 9, *20+, 33-
² Wittenberg	55
WYOMING	
Casper	2+, *6+, 13+, 14-, 20-
Cheyenne	5+, *17, 27-, 33-
Jackson	2, 11+
Lander	*4, 5
Laramie	*8+
Rawlins	11-
Riverton	10+
Rock Springs	13
Sheridan	7, 9+, 12+

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

TABLE OF ALLOTMENTS
STATE CHANNEL NO.

U.S. TERRITORIES AND POSSESSIONS**GUAM:**

Agana	*4, 8, 10, *12
**Tamuning	14, 20

PUERTO RICO:

Aguada	50
Aguadilla	*32, 44
Arecibo-Aguadilla	12+
Arecibo	54, 60
Bayamon	36
Caguas	11-, *58
Carolina	52
Fajardo	13+, 34, *40
Guayama	46
Humacao	68
Mayaguez	3+, 5-, 16, 22
Naranjito	64
Ponce	7+, 9-, 14, 20, *26, 48
San Juan	2+, 4-, *6+, 18, 24, 30, *62
San Sebastian	38
Yauco	42

VIRGIN ISLANDS:

Charlotte Amalie	10-, 17, *23, 43
Charlotte Amalie-Christiansted	*3, *6*12
<u>Christiansted</u>	<u>8+, 15, *21, 27</u>

⁶Stations using these allotments shall limit radiation toward stations on the same channel in Puerto Rico, to no more than the effective radiated power which would be radiated by an omnidirectional radio station using maximum permissible effective radiated power for antenna height above average terrain, at the minimum distances from such stations specified in §73.610(b). The FCC shall consider the status of the negotiations with the appropriate British authorities concerning these allotments when the applications for construction permits come before the FCC.

**** Added or revised by above change.**

[Next Page is No. 369]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.607 AVAILABILITY OF CHANNELS.

Applications may be filed to construct TV broadcast stations only on the channels designated in the Table of Allotments (§ 73.606(b)) and only in the communities listed therein. Applications which fail to comply with this requirement, whether or not accompanied by a petition to amend the Table will not be accepted for filing. However, applications specifying channels which accord with publicly announced FCC Orders changing the Table of Allotments will be accepted for filing even though such applications are tendered before the effective dates of such channel changes. (Edit. Amdt. 12/8/86)

73.609 ZONES.

(a) For the purpose of allotment and assignment, the United States is divided into three zones as follows: (Edit. Amdt. 12/8/86)

- (1) Zone I consists of that portion of the United States located within the confines of the following lines drawn on the U.S. Albers Equal Area Projection Map (based on standard parallels $29\text{-}1/2^\circ$ and $45\text{-}1/2^\circ$; North American datum): Beginning at the most easterly point on the State boundary line between North Carolina and Virginia; thence in a straight line to a point on the Virginia - West Virginia boundary line located at north latitude $37^\circ 49'$ and west longitude $80^\circ 12' 30''$; thence westerly along the southern boundary lines of the States of West Virginia, Ohio, Indiana, and Illinois to a point at the junction of the Illinois, Kentucky, and Missouri State boundary lines; thence northerly along the western boundary line of the State of Illinois to a point at the junction of the Illinois, Iowa, and Wisconsin State boundary lines; thence easterly along the northern State boundary line of Illinois to the 90th meridian; thence north along this meridian to the 43.5° parallel; thence east along this parallel to the United States-Canada border; thence southerly and following that border until it again intersects the 43.5° parallel; thence east along this parallel to the 71st meridian; thence in a straight line to the intersection of the 69th meridian and the 45th parallel; thence east along the 45th parallel to the Atlantic Ocean. When any of the above lines pass through a city, the city shall be considered to be located in Zone I. (See Figure 1 of § 73.699.) (Revised 10/22/68)

[Next Page is No. 385]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (2) Zone II consists of that portion of the United States which is not located in either Zone I or Zone III, and Puerto Rico, Alaska, Hawaiian Islands and the Virgin Islands.
- (3) Zone III consists of that portion of the United States located south of a line, drawn on the United States Albers Equal Area Projection Map (based on standard parallels 29.50 and 45.50 North American datum), beginning at a point on the east coast of Georgia and the 31st parallel and ending at the United States-Mexican border, consisting of arcs drawn with a 241.4 kilometer (150 mile) radius to the north from the following specified points: (Edit. Amdt. 6/5/85)

	<u>North Latitude</u>	<u>West Longitude</u>
(a)	29°40'00"	83°24'00"
(b)	30°07'00"	84°12'00"
(c)	30°31'00"	86°30'00"
(d)	30°48'00"	87°58'30"
(e)	30°00'00"	90°38'30"
(f)	30°04'30"	93°19'00"
(g)	29°46'00"	95°05'00"
(h)	28°43'00"	96°39'30"
(i)	27°52'30"	97°32'00"

When any of the above arcs pass through a city, the city shall be considered to be located in Zone II. (See Figure 2 of § 73.699.)

73.610 MINIMUM DISTANCE SEPARATIONS BETWEEN STATIONS.

(a) The provisions of this section relate to allotment separations and station separations. Petitions to amend the Table of Allotments (§ 73.606(b)) (other than those also expressly requesting amendment of this section or § 73.609) will be dismissed and all applications for new TV broadcast stations or for changes in the transmitter sites of existing stations will not be accepted for filing if they fail to comply with the requirements specified in paragraphs (b), (c) and (d) of this section. (Edit. Amdt. 12/8/86)

NOTE: Licensees and permittees of television broadcast stations which were operating on April 14, 1952 pursuant to one or more separations below those set forth in § 73.610 may continue to so operate, but in no event may they further reduce the separations below the minimum. As the existing separations of such stations are increased, the new separations will become the required minimum separations until separations are reached which comply with the requirements of § 73.610. Thereafter, the provisions of said section shall be applicable.

73.610(b)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(b) Minimum co-channel allotment and station separations: (Edit. Amdt. 12/8/86)

(1) (Edit. Amdt. 6/5/85)

Zone	<u>Kilometers</u>	
	Channels 2-13	Channels 14-69
I.....	272.7 (169.5 miles)	248.6(154.5 miles)
II.....	304.9 (189.5 miles)	280.8(174.5 miles)
III.....	353.2 (219.5 miles)	329.0(204.5 miles)

(2) The minimum co-channel distance separation between a station in one zone and a station in another zone shall be that of the zone requiring the lower separation. (Edit. Amdt. 6/5/85)

(c) Minimum allotment and station adjacent channel separations applicable to all zones: (Edit. Amdt. 12/8/86)

(1) Channels 2-13 95.7 kilometers (59.5 miles). (Edit. Amdt. 6/5/85)

Channels 14-69 87.7 kilometers (54.5 miles). (Edit. Amdt. 6/5/85)

(2) Due to the frequency spacing which exists between Channels 4 and 5, between Channels 6 and 7, and between Channels 13 and 14, the minimum adjacent channel separations specified above shall not be applicable to these pairs of channels (see § 73.603(a)). (Revised 12/2/72)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(d) In addition to the requirements of paragraphs (a), (b) and (c) of this section, the minimum assignment and station separations between stations on Channels 14-69, inclusive, as set forth in Table II of § 73.698 must be met in either rule-making proceedings looking towards the amendment of the Table of Assignments (§ 73.606(b)) or in licensing proceedings. No channel listed in column (1) of Table II of §73.698 will be assigned to any city, and no application for an authorization to operate on such a channel will be granted, unless the distance separations indicated at the top of columns (2) through (7), inclusive, are met with respect to each of the channels listed in those columns and parallel with the channel in column (1). (Edit. Amdt. 6/5/85)

(e) The zone in which the transmitter of a television station is located or proposed to be located determines the application rules with respect to co-channel distance separations where the transmitter is located in a different zone from that in which the channel to be employed is located. (Edit. Amdt. 6/5/85)

(f) The distances listed below apply only to allotments and assignments on Channel 6 (82-88 MHz). The Commission will not accept petitions to amend the Table of Allotments, applications for new stations, or applications to change the channel or location of existing assignments where the following minimum distances (between transmitter sites, in kilometers) ~~for from~~ any FM Channel 253 allotment or assignment are not met:

MINIMUM DISTANCE SEPARATION FROM FM CHANNEL 253 (98.5 MHZ)

FM Class	TV Zone I	TV Zones II & III
A	16 17	20 22
B1	19	23
B	22	26
C3	19	23
C2	22	26
C1	29	33
C	36	41

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.611 REFERENCE POINTS AND DISTANCE COMPUTATIONS.

~~To calculate the distance between two reference points see paragraph (c) section 73.208. However, distances shall be rounded to the nearest tenth of a kilometer.~~

(a) In considering petitions to amend the Table of Allotments (§ 73.606(b)), the following reference points shall be used by the Commission in determining assignment separations between communities:

- (1) Where transmitter sites for pertinent channels have been authorized in communities involved in a petition to amend the Table of Allotments, separations between such communities shall be determined by the distance between the coordinates of the authorized transmitter sites in the respective communities as set forth in the Commission's authorizations therefor.
- (2) Where an authorized transmitter site is available for use as a reference point in one community but not in the other for the pertinent channels, separations shall be determined by the distance between the coordinates of the transmitter site as set forth in the FCC's authorization therefor and the coordinates of the other community as set forth in the publication of the United States Department of the Interior entitled, Index to THE NATIONAL ATLAS OF THE UNITED STATES OF AMERICA. If this publication does not contain the coordinates for said other community, the coordinates of the main post office thereof shall be used.

[Next Page is No. 388.1]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (3) Where no authorized transmitter sites are available for use as reference points in both communities for the pertinent channels, the distance between the two communities listed in the above publication shall be used. If said publication does not contain such distance, the separation between the two communities shall be determined by the distance between the coordinates thereof as set forth in the publication. Where such coordinates are not contained in the publication, the coordinates of the main post offices of said communities shall be used.
- (4) Where the distance between the reference point in a community to which a channel is proposed to be assigned and the reference point in another community or communities does not meet the minimum separation requirements of § 73.610, the channel may be assigned to such community upon a showing that a transmitter site is available that would meet the minimum separation requirements of § 73.610 and the minimum field strength requirements of § 73.685. In such cases, where a station is not authorized in the community or communities to which measurements from the proposed channel assignment must be made pursuant to § 73.610 a showing should also be made that the distance between suitable transmitter sites in such other community or communities and the proposed transmitter site for the new channel meet the Commission's minimum spacing and coverage requirements.

(b) Station separation in licensing proceedings shall be determined by the distance between the coordinates of the proposed transmitter site in one community and

- (1) The coordinates of an authorized transmitter site for the pertinent channel in the other community; or, where such transmitter site is not available for use as a reference point,
- (2) The coordinates of the other community as set forth in the Index to THE NATIONAL ATLAS OF THE UNITED STATES OF AMERICA; or if not contained therein,
- (3) The coordinates of the main post office of such other community.
- (4) In addition, where there are pending applications in other communities which, if granted, would have to be considered in determining station separations, the coordinates of the transmitter sites proposed in such applications must be used to determine whether the requirements with respect to minimum separations between the proposed stations in the respective cities have been met.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(c) In measuring assignment and station separations involving cities listed in the Table in combination, where there is no authorized transmitter site in any of the combination cities on the channel involved, separation measurements shall be made from the reference point which will result in the lowest separation.

(d) To calculate the distance between two reference points see paragraph (c) of § 73.208. However, distances shall be rounded to the nearest tenth of a kilometer.

73.612 PROTECTION FROM INTERFERENCE.

(a) Permittees and licensees of TV broadcast stations are not protected from any interference which may be caused by the grant of a new station or of authority to modify the facilities of an existing station in accordance with the provisions of this subpart. The nature and extent of the protection from interference accorded to TV broadcast stations is limited solely to the protection which results from the minimum allotment and station separation requirements and the rules and regulations with respect to maximum powers and antenna heights set forth in this subpart. (Edit. Amdt. 12/8/86)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(b) When the Commission determines that grant of an application would serve the public interest, convenience, and necessity and the instrument of authorization specifies an antenna location in a designated antenna farm area which results in distance separation less than those specified in this subpart, TV broadcast station permittees and licensees shall be afforded protection from interference equivalent to the protection afforded under the minimum distance separations specified in this subpart. (Edit. Amdt. 6/5/85)

NOTE: The nature and extent of the protection from interference accorded to TV broadcast stations which were authorized prior to April 14, 1952, and which were operating on said date is limited not only as specified above but is further limited by any smaller separations existing between such stations on said date. Where, as a result of the adoption of the Table of Allotments or of changes in transmitter sites made by such stations after said date, separations smaller than the required minimum are increased but still remain lower than the required minimum, protection accorded such stations will be limited to the new separations.

73.614 POWER AND ANTENNA HEIGHT REQUIREMENTS.

(a) **MINIMUM REQUIREMENTS.**

Applications will not be accepted for filing if they specify less than -10dBk (100 watts) horizontally polarized visual effective radiated power in any horizontal direction. No minimum antenna height above average terrain is specified. (Revised 77-259, 5/20/77)

(b) **MAXIMUM POWER.**

Applications will not be accepted for filing if they specify a power which exceeds the maximum permitted boundaries specified in the following formulas: (Edit. Amdt. 6/5/85)

(1) Channels 2-6 in Zone I:

* $ERP_{Max} = 102.57 - 33.24 \star \text{LOG}_{10} (\text{HAAT})$

And,

$- 10 \text{ dBk} \leq ERP_{Max} \leq 20 \text{ dBk}$

[Next Page is No. 389]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (2) Channels 2-6 in Zones II and III:

$$\text{ERP}_{\text{Max}} = 67.57 - 17.08 * \text{Log}_{10}(\text{HAAT})$$

And,

$$10 \text{ dBk} \leq \text{ERP}_{\text{Max}} \leq 20 \text{ dBk}$$

- (3) Channels 7-13 in Zone I:

$$\text{ERP}_{\text{Max}} = 107.57 - 33.24 * \text{Log}_{10}(\text{HAAT})$$

And,

$$-4.0 \text{ dBk} \leq \text{ERP}_{\text{Max}} \leq 25 \text{ dBk}$$

- (4) Channels 7-13 in Zones II and III:

$$\text{ERP}_{\text{Max}} = 72.57 - 17.08 * \text{Log}_{10}(\text{HAAT})$$

And,

$$15 \text{ dBk} \leq \text{ERP}_{\text{Max}} \leq 25 \text{ dBk}$$

- (5) Channels 14-69 in Zones I, II and III:

$$\text{ERP}_{\text{Max}} = 84.57 - 17.08 * \text{Log}_{10}(\text{HAAT})$$

And,

$$27 \text{ dBk} \leq \text{ERP}_{\text{Max}} \leq 37 \text{ dBk}$$

Where:

ERP_{Max} = Maximum Effective Radiated Power measured in decibels above 1 kW (dBk).

HAAT = Height Above Average Terrain measured in meters.

The boundaries specified are to be used to determine the maximum possible combination of antenna height and ERP_{dBk} . When specifying an ERP_{dBk} less than that permitted by the lower boundary, any antenna HAAT can be used. Also, for values of antenna HAAT greater than 2,300 meters the maximum ERP is the lower limit specified for each equation.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (6) The effective radiated power in any horizontal or vertical direction may not exceed the maximum values permitted by this section.
- (7) The effective radiated power at any angle above the horizontal shall be as low as the state of the art permits, and in the same vertical plane may not exceed the effective radiated power in either the horizontal direction or below the horizontal, whichever is greater.

(c) DETERMINATION OF APPLICABLE RULES.

The zone in which the transmitter of a television station is located or proposed to be located determines the applicable rules with respect to maximum antenna heights and powers for VHF stations when the transmitter is located in Zone I and the channel to be employed is located in Zone II, or the transmitter is located in Zone II and the channel to be employed is located in Zone I.

73.615 ADMINISTRATIVE CHANGES IN AUTHORIZATIONS.

In the issuance of television broadcast station authorizations, the Commission will specify the transmitter output power and effective radiated power to the nearest 0.1 dBk. Powers specified by ~~kilowatts~~ kWs shall be obtained by converting dBk to ~~kilowatts~~ kWs to 3 significant figures. Antenna heights above average terrain will be specified to the nearest ~~±0~~ feet meter. Midway figures will be authorized in the lower alternative.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

~~APPLICATIONS AND AUTHORIZATIONS~~

73.620 [RESERVED] [76-1042, 12/6/76]

73.621 NONCOMMERCIAL EDUCATIONAL TV STATIONS.

In addition to the other provisions of this subpart, the following shall be applicable to noncommercial educational television broadcast stations:

- (a) Except as provided in paragraph (b) of this section, noncommercial educational broadcast stations will be licensed only to nonprofit educational organizations upon a showing that the proposed stations will be used primarily to serve the educational needs of the community; for the advancement of educational programs; and to furnish a nonprofit and noncommercial television broadcast service.
 - (1) In determining the eligibility of publicly supported educational organizations, the accreditation of their respective state departments of education shall be taken into consideration.
 - (2) In determining the eligibility of privately controlled educational organizations, the accreditation of state departments of education or recognized regional and national educational accrediting organizations shall be taken into consideration.
- (b) Where a municipality or other political subdivision has no independently constituted educational organization such as, for example, a board of education having autonomy with respect to carrying out the municipality's educational program, such municipality shall be eligible for a noncommercial educational television broadcast station. In such circumstances, a full and detailed showing must be made that a grant of the application will be consistent with the intent and purpose of the Commission's rules and regulations relating to such stations.

[Next Page is No. 393]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (c) Noncommercial educational television broadcast stations may transmit educational, cultural and entertainment programs, and programs designed for use by schools and school systems in connection with regular school courses, as well as routine and administrative material pertaining thereto.
- (d) A noncommercial educational television station may broadcast programs produced by or at the expense of, or furnished by persons other than the licensee, if no other consideration than the furnishing of the program and the costs incidental to its production and broadcast are received by the licensee. The payment of line charges by another station, network, or someone other than the licensee of a noncommercial educational television station, or general contributions to the operating costs of a station, shall not be considered as being prohibited by this paragraph. (Revised 70-487, 9/30/70)
- (e) Each station shall furnish a nonprofit and noncommercial broadcast service. Noncommercial educational television stations shall be subject to the provisions of § 73.1212 to the extent that they are applicable to the broadcast of programs produced by, or at the expense of, or furnished by others. No *promotional* announcements *on behalf of for profit entities* shall be broadcast at any time in exchange for the receipt, in whole or in part, of consideration to the licensee, its principals, or employees. However, acknowledgments of contributions can be made. *The scheduling of any announcements and acknowledgments may not interrupt regular programming.* (Revised 83-327, 9/3/82)
- NOTE: Commission interpretation of this rule, including the acceptable form of acknowledgments, may be found in the Second Report and Order in Docket No. 21136 (Commission Policy Concerning the Noncommercial Nature of Educational Broadcast Stations), 86 F.C.C. 2d 141 (1981); the Memorandum Opinion and Order in Docket No. 21136, 90 FCC 2d 895 (1982), and the Memorandum Opinion and Order in Docket No. 21136, 49 FR 13534, April 5, 1984. (Edit. Amdt. 7/18/84)
- (f) Telecommunications Service on the Vertical Blanking Interval and in the Visual Signal. The provisions governing VBI and visual signal telecommunications service in § 73.646 are applicable to noncommercial educational TV stations.
- (g) Non-program related data signals transmitted on Line 21 pursuant to § 73.682(a)(2)(ii) may be used for remunerative purposes. (Added 84-529, 3/4/85)

[Next Page is No. 395]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.622 DIGITAL TELEVISION TABLE OF ALLOTMENTS.

(a) **GENERAL.**

The following table of allotments contains the digital television (DTV) channel allotments designated for the listed communities in the United States, its Territories, and possessions. The initial DTV Table of Allotments was established on April 3, 1997, to provide a second channel for DTV service for all eligible analog television broadcasters. Requests for addition of new DTV allotments, or requests to change the channels allotted to a community must be made in a petition for rule making to amend the DTV Table of Allotments. A request to amend the DTV table to change the channel of an allotment in the DTV table will be evaluated for technical acceptability using engineering criteria set forth in § 73.623(c). A request to amend the DTV table to add a new allotment will be evaluated for technical acceptability using the geographic spacing criteria set forth in § 73.623(d). DTV allotments designated with an asterisk are assigned for use by non-commercial educational broadcast stations only. Stations operating on DTV allotments designated with a "c" are required to comply with paragraph (g) of this section.

- (1) Petitions requesting the addition of a new allotment must specify a channel in the range of channels 2-51.
- (2) Petitions requesting a change in the channel of an initial allotment must specify a channel in the range of channels 2-59.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(b) DTV TABLE OF ALLOTMENTS.

Community	Channel No.
Alabama:	
Anniston	5 8
Bessemer	1 8c
Birmingham	30, 36, 50, 52, *53
Demopolis	*19
Dothan	21, 36
Dozier	*59
Florence	14e, 20, *22
Gadsden	26, 45c
Homewood	2 8
Huntsville	*24e, 32c, 41, 49c, 59
Louisville	*42e 44
Mobile	9e, *18, 20c, 26, 27, *41, 47
Montgomery	*14, 16, 46c, 51, 57
Mount Cheaha	*56
Opelika	3 1
Ozark	33e
Selma	5 5
Troy	4 8
Tuscaloosa	34c
Tuskegee	2 4
Alaska:	
Anchorage	18, 20, 22, *24, *26, 28, 30, 32
Bethel	*3
Dillingham	*9
Fairbanks	18, 22, *24, 26, 28
Juneau	*6, 11
Ketchikan	*8, 13
North Pole	2 0
Sitka	2
Arizona:	
Flagstaff	18, 22, 27, 28 32
Green Valley	47c
Kingman	19, *46
Lake Havasu City	35e 32
McNary	*42
Mesa	3 6
Nogales	2 5
Phoenix	14e, 17, 20e, 23 , 24, 26, *29, 31, 34c, 49, 56
Prescott	2 5
Sierra Vista	4 4

[Next Page is No. 396.1]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

Community	Channel No.
Arizona (Cont'd):	
Tolleson	52c
Tucson	19c, <u>23, 25</u> , *28c, *30, 31 , <u>32, 35, 42</u> -41e
Yuma	16, 41
Arkansas:	
Arkadelphia	*46
El Dorado	27
Fayetteville	15, *45
Fort Smith	17 , 18, 21, <u>27</u>
Hot Springs	14
Jonesboro	<u>9c</u> , *20c, 49c, 58
Little Rock	12c, 22, <u>30</u> , 32, 33 , 43c, *47
Mountain View	*35
Newark	* 26 <u>27</u>
Pine Bluff	24e, 39c
Rogers	50e
Springdale	39
California:	
Anaheim	32
Arcata	22e
Bakersfield	10, 25, 33, 55
Barstow	* 27 , 44
Blythe	*4
Calipatria	50
Ceres	*15c
Chico	36, 43, *51
Clovis	44c
Coalinga	*22
Concord	63c
Corona	39c
Cotati	*23c
El Centro	22, 48
Eureka	*11, 16, 17, 28e
Fort Bragg	15
Fresno	7, 9, 14, 16, *40
Hanford	20e
Huntington Beach	*48
Los Angeles	8e, <u>31c</u> , 35c, 36, *41c, 42, 43, <u>53c</u> , *59c, 60, 65c, 66, 68
Merced	38
Modesto	18e
Monterey	31, 32
Novato	47

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

Community	Channel No.
California (Cont'd):	
Oakland	56
Ontario	47c
Oxnard	24
Palm Springs	46, 52
Paradise	20
Porterville	48c
Rancho Palos Verdes	51c
Redding	14, *18
Riverside	6869
Sacramento	21c, 35c, 48, *53c, 55c, 61
Salinas	13, 43c
San Bernadino	*26, 38, 61c
San Diego	18, 19, 25, *30, 40c, 55
San Francisco	19e, 24, 27c, 28 , 29, *30, *33c, *34, 39c, 45c, 51 , 57
San Jose	12c, 41c, 49c, *50, 52
San Luis Obispo	15, 34c
San Mateo	*59e
Sanger	36
Santa Ana	23c , 53e
Santa Barbara	21 , *26, 27
Santa Maria	19
Santa Rosa	54
Stockton	25, 46, 62
Twentynine Palms	23
Vallejo	3034
Ventura	49
Visalia	28, *50c
Watsonville	*58
Colorado:	
Alamosa	*46
Boulder	15c
Broomfield	* 36 - 38
Castle Rock	4746
Colorado Springs	10e, 22c, 24
Craig	*48
Denver	16, 17, *18, 19e, 32c, 34, 35, *40c, 4344 , 51c
Durango	15 17
Fort Collins	21e
Glenwood Springs	23, *39
Grand Junction	2, 7e, 12c, 14 , 15, * 16 -*17
La Junta	*30

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

Community	Channel No.
Colorado (Cont'd):	
Lamar	*50
Leadville	*49
Longmont	26e29
Montrose	13
Pueblo	27, *29*26, 42
Steamboat Springs	10
Sterling	23
Trinidad	*43
Connecticut:	
Bridgeport	42c, *52c
Hartford	5, 11 , *32, 33, 46
New Britain	35
New Haven	6, 10, *39
New London	34
Norwich	*45
Waterbury	12
Delaware:	
Seaford	*44
Wilmington	31, *55
District of Columbia:	
Washington	6e, *27c, *33c, 34, 35, 36, 39, 48, 51c
Florida:	
Boca Raton	*44c
Bradenton	*5, 42
Cape Coral	35e
Clearwater	21e
Clermont	17e
Cocoa	*30, 51e
Daytona Beach	11, 49
Fort Lauderdale	52c
Fort Myers	15, *31c, 53
Fort Pierce	*38, 50
Fort Walton Beach	25, 40, 49
Gainesville	16, *36
High Springs	28
Hollywood	47
Jacksonville	13c, 19, 32, 34, *38, 42, *44
Key West	3, 12
Lake Worth	36
Lakeland	19
Leesburg	40, *46c
Live Oak	48

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

Community	Channel No.
Florida (Cont'd):	
Marathon	*34
Melbourne	20, 48
Miami	8c, 9e, *18c, *19, <u>19</u> , *20, 21, 22c, 24c, <u>26</u> , 30, 32e, 46c
Naples	43 <u>41</u> , 45e
New Smyrna Beach	*33
Ocala	31
Orange Park	10
Orlando	14, 22, *23e, 39, 41, 58
Palm Beach	49
Panama City	19, 29c, *38, 41 <u>42</u>
Panama City Beach	47c
Pensacola	17, *31, 34c, 45c
Sarasota	52
St. Petersburg	24, 57, 59
Tallahassee	2, 22, *32
Tampa	7e, 12e, 29c, *34, 47, *54
Tequesta	16
Tice	33
Venice	25
West Palm Beach	13c, *27, 28e, 55
Georgia:	
Albany	17, 30e
Athens	*22, 48
Atlanta	10e, 19, 20, *21, 25, 27, *38, 39, *41, 43
Augusta	30, 31, 42, 51
Bainbridge	50c
Baxley	35c
Brunswick	24
Chatsworth	*33
Cochran	*7
Columbus	15, *23, 35, 47, 49
Cordele	51
Dalton	16
Dawson	*26c
Macon	16, 40e, 45, 50
Monroe	44
Pelham	*20
Perry	32
Rome	51
Savannah	15, 23c, 39, *46
Thomasville	52
Toccoa	24

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

Community	Channel No.
Georgia (Cont'd):	
Valdosta	43e
Waycross	*18
Wrens	*36
Hawaii:	
Hilo	8, 18, *19, 21, 22, 23, *31, *39c
Honolulu	8, *18, 19, 22, 23, 27c, 31c, 33c, 35, *39c, 40, *43
Kailua Kona	25
Kaneohe	41
Lihue	*7c, *12, *28c, *45
Wailuku	16c, 20, 24, *28c, 39, *30, *34c, 36
Idaho:	
Boise	*21, 25 , 26, 28
Burley	*48
Caldwell	10c
Coeur D'alene	*56*45
Filer	*18e
Grangeville	*44
Idaho Falls	9c, 36
Lewiston	32
Moscow	*33*35
Nampa	22, 27 24, 44
Pocatello	*17, 23
Twin Falls	16, *24*22, 34e
Weiser	*34
Illinois:	
Aurora	59e
Bloomington	28
Carbondale	*40
Champaign	41, 48
Charleston	*50e
Chicago	3c, 19c, *21c, 27c, 29, 31e, 43c, 45c, *47, 52
Decatur	18c, 22e
East St. Louis	47c
Freeport	41
Harrisburg	34
Jacksonville	*15c
Joliet	53
Lasalle	10
Macomb	*21e
Marion	17

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

Community	Channel No.
Illinois (Cont'd):	
Moline	*23e, 38
Mount Vernon	21
Olney	*19
Peoria	30e, 39, 40, *46e, 57
Quincy	32, *34, 54
Rock Island	58
Rockford	16c, 42, 54
Springfield	42, 44, 53
Urbana	26e, *33
Indiana:	
Angola	12
Bloomington	*14, 27, 53, 56
Elkhart	58
Evansville	28, 45c, *54, 58, 59
Fort Wayne	4, 19, 24, 36, *40c
Gary	*17, 51c
Hammond	36
Indianapolis	9c, 16, *21c, 25, *44, 45, 46
Kokomo	54
Lafayette	11
Marion	32
Muncie	52
Richmond	3039
Salem	57e, 51c
South Bend	30, *35c, 42, 48
Terre Haute	24, 36, 39c
Vincennes	*52
Iowa:	
Ames	59
Burlington	41
Cedar Rapids	27e, 47e, 51, 52
Centerville	*44
Council Bluffs	*33c
Davenport	*34, 49, 56
Des Moines	16e, 19, 26, 31, *50
Dubuque	43
Fort Dodge	*25
Iowa City	25, *45
Mason City	*18, 42
Ottumwa	14e
Red Oak	*35e
Sioux City	*28c, 30, 39, 41, 49
Waterloo	*35, 55

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

Community	Channel No.
Kansas:	
Colby	15 17
Ensign	5e
Fort Scott	40
Garden City	17 16, 18, *42
Goodland	14
Great Bend	22
Hays	*16, 20
Hutchinson	19, *29, 35e
Lakin	*23
Lawrence	39 36
Oakley	*40
Pittsburg	30
Salina	17e
Topeka	*23, 26 28c, 44, 48e
Wichita	21, 25 e , 34 e , 26, 31, 45
Kentucky:	
Ashland	*26c, 44*45
Beattyville	7
Bowling Green	16, *18, 33, *48
Campbellsville	19
Covington	*24
Danville	4
Elizabethtown	*43
Harlan	51
Hazard	12, *16
Lexington	20 2, 40, *42, 59
Louisville	8, *17, 26, *38, 47, 49, 55
Madisonville	20c, *42
Morehead	*15, 21
Murray	*36
Newport	29
Owensboro	29 30
Owenton	*44
Paducah	32, 41, 50c
Pikeville	*24
Somerset	*14
Louisiana:	
Alexandria	*26c, 32c, 35
Baton Rouge	* 22 25, 34c, 42, 45c, 46
Columbia	57
Lafayette	16c, *23e, 28, 56
Lake Charles	8 c, *20, 30c, 53
Monroe	*19, 55

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

Community	Channel No.
Louisiana (Cont'd):	
New Orleans	*11e, 14, 15, 29, 30, *31e, 39e, 40, 43, 50c
Shreveport	17, *23e *25c, 28, 34c, 44e
Slidell	24
West Monroe	36, 38e
Maine:	
Augusta	*17
Bangor	14, 19, 25
Biddeford	*45
Calais	*15
Lewiston	3928
Orono	*22e
Poland Spring	46
Portland	4, 38, 44
Presque Isle	16, *20
Maryland:	
Annapolis	*42
Baltimore	*29, 38, 40, 41, 46c, 52, 59
Frederick	*28
Hagerstown	16, *44, 55
Oakland	*54
Salisbury	21, 53, *56
Massachusetts:	
Adams	36
Boston	*19, 20, 30, 31, 32, 39c, 42, *43e
Cambridge	41
Lawrence	18
Marlborough	23
New Bedford	22, 49
Norwell	52
Springfield	11, 33, 55, *58c
Vineyard Haven	40
Worcester	29g, *47e
Michigan:	
Alpena	13, *57
Ann Arbor	33
Bad Axe	*15
Battle Creek	20, 44c
Bay City	22
Cadillac	40, 47, *58
Calumet	18
Cheboygan	14

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

Community	Channel No.
Michigan (Cont'd):	
Detroit	14, 21c, 41, *43, 44, 45, 58
East Lansing	*55c
Escanada	48
Flint	16, 36, *52
Grand Rapids	7e, *11, 19, 39
Iron Mountain	22
Jackson	34
Kalamazoo	2e, *5, 45
Lansing	38, 51e, 59
Manistee	*17
Marquette	*33, 35
Mount Clemens	39c
Mount Pleasant	*56
Muskegon	24
Onondaga	57
Saginaw	30, 48e
Sault Ste. Marie	49, 56
Traverse City	31, 50
University Center	*18e
Vanderbilt	59
West Branch	*24
Minnesota:	
Alexandria	14, 24
Appleton	*31
Austin	*20, 33
Bemidji	*18
Crookston	*16
Brainerd	*28
Duluth	17, 33, *38, 43
Hibbing	36, *51
Mankato	38
Minneapolis	21, 22e, *26, 32, 35, *44e
Redwood Falls	27
Rochester	36, 46e
St. Cloud	40e
St. Paul	*16e, *34, 50
Thief River Falls	57
Walker	20
Worthington	*15
Mississippi:	
Biloxi	*35, 36 *16, 39
Booneville	*55
Bude	*18c
Columbus	35
Greenville	17
Greenwood	*25 *26, 54
Gulfport	48

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

Community	Channel No.
Mississippi (Cont'd):	
Hattiesburg	23e 58
Holly Springs	41c
Jackson	*20, 21, 41c, 51, 52
Laurel	28
Meridian	25e, 26, 31c, *47 *44, 49
Mississippi State	*38
Natchez	49c
Oxford	*36
Tupelo	57
West Point	16
Missouri:	
Birch Tree	*7
Bowling Green	*50
Cape Girardeau	22e, 57
Columbia	22, 36
Hannibal	29
Jefferson City	12e, 20
Joplin	*25e, 43, 46
Kansas City	14, *18e, 24, 31e, 34, 42e, 47, 51c
King City	*28
Kirksville	33
Poplar Bluff	18
Sedalia	15
Springfield	19, *23, 28c, 44, 52
St. Joseph	21, 53
St. Louis	14, 26, 31c, 35, *39, 43, 56
Montana:	
Billings	11, 17, 18
Bozeman	16, *20
Butte	2, 15, 19c
Glendive	15
Great Falls	39, 44, 45
Hardin	1922
Helena	14, 29
Kalispell	38
Miles City	13, *39
Missoula	*27, 35, 36, 40
Nebraska:	
Albion	23e
Alliance	*24
Bassett	*15
Grand Island	19, 32
Hastings	*14, *21 21
Hayes Center	18

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

Community	Channel No.
Nebraska (Cont'd):	
Kearney	35 36
Lexington	*26
Lincoln	25, 31, *40
McCook	12
Merriman	*17
Norfolk	*16
North Platte	*16, 22
Omaha	*17, 20, 22, 38, 43c, 45
Scottsbluff	19 20, 29
Superior	34
Nevada:	
Elko	8 *15
Henderson	24
Las Vegas	2e, 7e, *11c, 16c, 17, 20, 22c, 32c 29
Paradise	38e 40c
Reno	*15, 22c, 23, 26e, 32, 33 34, 41 44
Winnemucca	12
New Hampshire:	
Berlin	*15
Concord	33
Derry	35
Durham	*57
Keene	*49c
Littleton	*48e
Manchester	59c
Merrimack	34
New Jersey:	
Atlantic City	46, 49
Burlington	27
Camden	*22e
Linden	36
Montclair	*51c
New Brunswick	*18c
Newark	53c, 61
Newton	8c
Paterson	40e
Secaucus	38
Trenton	*43
Vineland	66c
West Milford	*29
Wildwood	36

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

Community	Channel No.
New Mexico:	
26, Albuquerque	16, *17, 21, 22e <u>24c</u> , *25, 42c, 51c
Carlsbad	19
Clovis	20
Farmington	158 , 17
Gallup	8
Hobbs	171 6
Las Cruces	*23c, 283 6
Portales	*32
Roswell	28c, 353 -8, 41
Santa Fe	10e, 27, 29
Silver City	12, 33
Socorro	*31
New York:	
Albany	4, 15, 26
Amsterdam	50
Batavia	53
Binghamton	4, 7, 8, *42c
Buffalo	14, *32, 33, 34, 38, 39, *43
Carthage	35
Corning	50
Elmira	2, 55
Garden City	*22c
Jamestown	27c
Kingston	21
New York	*24e, 28, 30e, 33, 44, 45, 56c
North Pole	14
Norwood	*23
Plattsburgh	*38
Poughkeepsie	27
Riverhead	57
Rochester	*16, 28, 45, 58, 59
Schenectady	*34, 39, 43
Smithtown	23
Springville	46
Syracuse	17, 19e, *25c, 44c, 47, 54
Utica	27, 29, 30
Watertown	21e, *41
North Carolina:	
Asheville	*25, 45, 56, 57
Belmont	47c
Burlington	14
Chapel Hill	*59
Charlotte	21 , 22, 23, *24, <u>27</u> , 34

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

Community	Channel No.
North Carolina (Cont'd):	
Columbia	*20
Concord	*44
Durham	27e, 52
Fayetteville	36, 38
Goldsboro	5 5
Greensboro	32 , 33, <u>43</u> , 51
Greenville	10c, 21, *23
Hickory	40
High Point	3 5
Jacksonville	34e, *44
Kannapolis	50
Lexington	19e
Linville	*54
Lumberton	*25
Morehead City	24
New Bern	48
Raleigh	49e, 53, 57
Roanoke Rapids	*39
Rocky Mount	1 5
Washington	3 2
Wilmington	*29, 30, 46, 54
Wilson	42
Winston-Salem	29, 31, *43 <u>*32</u>
North Dakota:	
Bismarck	16e, *22, 23, 31
Devils Lake	*25 , 59
Dickinson	18, 19, *20
Ellendale	*20c
Fargo	19, 21, *39 <u>*23</u> , 58
Grand Forks	*56
Jamestown	14
Minot	15c, 45, *57, 58
Pembina	1 5
Valley City	3 8
Williston	14, *51, 52
Ohio:	
Akron	30, *325 <u>0c</u> , 59
Alliance	*46c
Athens	*27
Bowling Green	*56
Cambridge	*35
Canton	39, 47
Chillicothe	4 6

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

Community	Channel No.
Ohio (Cont'd):	
Cincinnati	10c, 31, 33, *34, 35
Cleveland	2e, 15, *26c, 31, 34
Columbus	11e , 13, 14, <u>21</u> , 36, *38
Dayton	3039 , 41, 50, 51, *58
Lima	20, 5747
Lorain	28
Mansfield	12
Newark	24
Oxford	*28
Portsmouth	17, *43c
Sandusky	42c
Shaker Heights	10
Springfield	18
Steubenville	57
Toledo	5, 17, 19e, *29e, 46, 49c
Youngstown	20c, 36, 41
Zanesville	40
Oklahoma:	
Ada	26
Altus	*42
Bartlesville	1415
Cheyenne	*8
Claremore	*36c
Enid	18
Eufaula	*31
Guymon	*29
Lawton	23
Oklahoma City	15c, 16, 24e, 27, *32, 33e, 39, 4042 , 50, 51e
Okmulgee	28
Shawnee	29e
Tulsa	22e, *38, 42c, 48c, 49, 55, 56, 58
Oregon:	
Bend	*11, 18
Coos Bay	21, 22e
Corvallis	*39
Eugene	14, 17c, 25, 26 ; *29c, <u>31</u>
Klamath Falls	29, *33, 40
La Grande	*5
Medford	15, 27c, 35, 38, *42
Pendleton	<u>48</u>
Portland	*27, 30, 40, 43, 45, 46
Roseburg	18, 19, 45e
Salem	20, 33c

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

Community	Channel No.
Pennsylvania:	
Allentown	46, *62c
Altoona	24c, 32, 46e
Bethlehem	59c
Clearfield	*15
Erie	16, 22, *50, 52, 58
Greensburg	50
Harrisburg	4, *36, 57
Hazleton	9
Johnstown	29, 30, 34
Lancaster	23, 58
Philadelphia	26, 32, *34e, 42, 54, 64c, 67
Pittsburgh	25c, *26c, *38, 42, 43, 48, 51
Reading	25
Red Lion	30
Scranton	13, 31, 32, *41, 49
Wilkes-Barre	11
Williamsport	29
York	47
Rhode Island:	
Block Island	17c
Providence	13c, *21, 51, 54c
South Carolina:	
Allendale	*33
Anderson	14
Beaufort	*44
Charleston	35e, 40, *49, 52, 53, 59
Columbia	8, 17, *32, 41, 48
Conway	*58
Florence	16c, 20e, *45, 56
Greenville	*9, 52 5, 59
Greenwood	*18
Hardeeville	27e
Myrtle Beach	18
Rock Hill	15, 39
Spartanburg	43, 53
Sumter	*28c, 38
South Dakota:	
Aberdeen	*17c, 28
Brookings	*18
Eagle Butte	*24*25
Florence	25
Huron	22
Lead	26, 27 29, 30

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

Community	Channel No.
South Dakota (Cont'd):	
Lowry	*15
Martin	* 20 *23
Mitchell	2 6
Pierre	19, *21
Rapid City	16c, 18, 22e, * 23 *26
Reliance	1 4
Sioux Falls	7, *24c, 29, 32, <u>40</u> , 47c, 48
Vermillion	*34
Tennessee:	
Chattanooga	*29, 35, 40, 47, 55
Cleveland	4 2
Cookeville	36, *52
Crossville	5 0
Greeneville	38e
Hendersonville	5 1 c
Jackson	39, 43
Jellico	2 3
Johnson City	5 8
Kingsport	2 7
Knoxville	*17, 26, 30, 31, 34
Lebanon	4 4
Lexington	*47
Memphis	25c, 28, *29c, 31c, 51c, 52, 5 3
Murfreesboro	38e
Nashville	10, 15, 21, 23, 27, *46, 56
Sneedville	*41
Texas:	
Abilene	24, 29
Alvin	3 6
Amarillo	9e, 15c, 19, *21, 24 23
Arlington	4 2
Austin	21, *22, 33, 43c, 49, 56
Baytown	4 1
Beaumont	21, *33e, 50
Belton	47c
Big Spring	3 3
Brownsville	24 c
Bryan	29c, 59
College Station	*12
Conroe	5, 42
Corpus Christi	18, * 22 *23, 27e, 47, 50
Dallas	9c, *14, 32e, 35, 36, 40c, 4 5

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

Community	Channel No.
Texas (Cont'd):	
Decatur	30c
Del Rio	28
Denton	*3143
Eagle Pass	18
El Paso	15c, 16, 17, 18, 25e, *29*30 , *39c, 51
Fort Worth	18, 19, 41, 51e
Galveston	*23c, 47e
Garland	24c
Greenville	46e
Harlingen	31, *34, *3838
Houston	<u>*9c</u> , 19e, *24, 27c, 31, 32, 35, <u>35</u> , 38e, 44c, *53
Irving	48e
Jacksonville	22
Katy	52c
Kerrville	1732
Killeen	23
Lake Dallas	4354
Laredo	14, 15, 19
Llano	27
Longview	52c
Lubbock	25, 27e, 35c, <u>38</u> , *39, 4043 , 44
Lufkin	43
McAllen	3046
Midland	26
Nacogdoches	18e
Odessa	15, *22, 23e, 31e, 43c
Port Arthur	40
Rio Grande City	20
Rosenberg	46c
San Angelo	11, 16, 19
San Antonio	*16, *20, 30c, <u>38</u> , 39, 40e , 48, 55, 58
Sherman	20
Snyder	10
Sweetwater	20
Temple	50
Texarkana	15, *50
Tyler	38
Victoria	15, 34
Waco	*20, 26c, 53, 57
Weslaco	13
Wichita Falls	1517e , 22, 28

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

Community	Channel No.
Utah:	
Cedar City	14, *44
Monticello	*41
Ogden	29e, *35 *34
Provo	17c, *39
Salt Lake City	27e, 28, 34, 36, 35, 38, *40, 40, *42
St. George	9
Vermont:	
Burlington	16, *32e, 43e, 53
Hartford	25
Rutland	*56
St. Johnsbury	*18
Windsor	*24
Virginia:	
Arlington	15c
Ashland	47
Bristol	28
Charlottesville	*14, 32
Danville	41
Fairfax	*57c
Front Royal	*21
Goldvein	*30
Grundy	49
Hampton	41
Hampton-Norfolk	*16c
Harrisonburg	49
Lynchburg	20e, *34 , 56
Manassas	3-64 3c
Marion	*42
Norfolk	14e, 38, <u>46</u> , 58
Norton	*32
Petersburg	22c
Portsmouth	19, 31
Richmond	*24c, 25, 26, *44, 54
Roanoke	*3, 17, 18, 30, 36
Staunton	*19 *11
Virginia Beach	29
West Point	*46
Washington:	
Bellevue	32e, 50e
Bellingham	19, 35
Centralia	*19
Everett	31
Kennewick	1-44 4
Pasco	20e 18

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

Community	Channel No.
Washington (Cont'd):	
Pullman	*17
Richland	26c, *30e*38
Seattle	25, 38, 39, *41, 44e, 48
Spokane	29c, 38, 13, 15, 20, 30, 36, *39, 54, 55, 57
Tacoma	14, 18, *26*27, 36, *42
Vancouver	48e
Wenatchee	5-646c
Yakima	14, 16, *21, 3334e, 52
West Virginia:	
Bluefield	14, 46
Charleston	*16, 19, 39, 415-5
Clarksburg	28, 52
Grandview	*53
Huntington	23, *34c, 54
Lewisburg	48
Martinsburg	12
Morgantown	*33
Oak Hill	50
Parkersburg	49
Weston	58
Wheeling	5-632
Wisconsin:	
Appleton	59
Chippewa Falls	49c
Eagle River	1-728
Eau Claire	15, 39
Fond du Luc	44
Green Bay	23, 41, *42, 51, 56
Janesville	32
Kenosha	40
La Crosse	14, 17, *30e, 53
Madison	11, 19, *20e, 26e, 50
Manitowoc	19
Mayville	43
Menomonie	*27e
Milwaukee	*8, 22, 25c, 28, 33, 34, *35e, 46, 61
Park Falls	*47
Racine	48e
Rhineland	16
Superior	19
Suring	21
Wausau	*24, 29, 40
Wyoming:	
Casper	15c, 17, 18
Cheyenne	11, 28c, 30

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

Community	Channel No.
Wyoming (Cont'd):	
Jackson	14
Lander	7, *8
Rawlins	9
Riverton	16
Rock Springs	192 1
Sheridan	21
Guam:	
Agana	2, 4, 5
Tamuning	17
Puerto Rico:	
Aguada	62
Aguadilla	17c, *34, 69
Arecibo	53e, 61c
Bayamon	59c
Caguas	56, *57e
Carolina	51e
Fajardo	*16c , 33e, 38*
Guayama	45e
Humacao	49
Mayaguez	23c, 29e, 35e, 63
Naranjito	65c
Ponce	15c, 19e, *25e, 43c, 47e, 66-67e
San Juan	21, 27c, 28, 31c, 32, *55c
San Sebastian	39c
Yauco	41c
Virgin Islands:	
Charlotte Amalie	*44e, 48, 50
Christiansted	5, 20

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(c) **AVAILABILITY OF CHANNELS.** (Added 97-115, 6/13/97)

Applications may be filed to construct DTV broadcast stations only on the channels designated in the DTV Table of Allotments set forth in paragraph (b) of this section, and only in the communities listed therein. Applications that fail to comply with this requirement, whether or not accompanied by a petition to amend the DTV Table, will not be accepted for filing. However, applications specifying channels that accord with publicly announced FCC Orders changing the DTV Table of Allotments will be accepted for filing even if such applications are tendered before the effective dates of such channel change. An application for authority to construct a DTV station on an allotment in the initial DTV table may only be filed by the licensee or permittee of the analog TV station with which that initial allotment is paired, as set forth in Appendix B of the Memorandum Opinion and Order on Reconsideration of the Sixth Report and Order ~~Sixth Report and Order~~ in MM Docket 87-268, FCC ~~97-115~~98-24 (Memorandum Opinion and Order), adopted ~~April 3, 1997~~January 29, 1998. Copies of the Memorandum Opinion Sixth Report and Order may be inspected during normal business hours at the: Federal Communications Commission, 1919 M St., NW., Dockets Branch (Room 239), Washington, DC, 20554. This document is also available through the Internet on the FCC Home Page at <http://www.fcc.gov>. Applications may also be filed to implement an exchange of channel allotments between two or more licensees or permittees of analog TV stations in the same community, provided, however, that the other requirements of this section and of § 73.623 are met with respect to each such application.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(d) REFERENCE POINTS AND DISTANCE COMPUTATIONS.

(Added 97-115, 6/13/97)

- (1) The reference coordinates of a DTV allotment included in the initial DTV Table of Allotments are the coordinates of the authorized transmitting antenna site of the associated analog TV station, ~~with which that initial allotment is paired~~, as set forth in Appendix B of the ~~Sixth Report Memorandum Opinion and Order (referenced above) in MM Docket 87-268 (referenced in paragraph (e) of this section)~~. An application for authority to construct or modify DTV facilities on such an allotment may specify an alternate location for the DTV transmitting antenna that is within 5 kilometers of the DTV allotment reference coordinates without consideration of electromagnetic interference to other DTV or analog TV broadcast stations, allotments or applications, provided the application complies with paragraph (f)(2) of this section. Location of ~~the a DTV broadcast station's~~ transmitting antenna of such a station at a site more than 5 kilometers from the DTV allotment reference coordinates must comply with the provisions of § Section 73.623(c). In the case where a DTV station has been granted authority to construct more than 5 kilometers from its reference coordinates pursuant to § section 73.623(c), and its authorized coverage area extends in any azimuthal direction beyond the DTV coverage area determined for the DTV allotment reference facilities, then the coordinates of such authorized site are to be used in addition to the coordinates of the DTV allotment to determine protection from new DTV allotments pursuant to § 73.623(d) and from subsequent DTV applications filed pursuant to § 73.623(c).
- (2) The reference coordinates of a DTV allotment not included in the initial DTV Table of Allotments ~~will~~ shall be the authorized transmitter site, or, where such a transmitter site is not available for use as a reference point, the coordinates as designated in the FCC order modifying the DTV Table of Allotments, designated in the FCC Order changing the DTV Table of Allotments and must meet the geographic spacing requirements of § 73.623(d). ~~An application for authority to construct or modify such DTV facilities must comply with the provisions of § 73.623(e). In the case where such a DTV station has been granted authority to construct pursuant to § 73.623(e) and its authorized coverage area extends in any azimuthal direction beyond the DTV coverage area determined for the DTV allotment reference facilities, then the coordinates of such authorized site are to be used in addition to the coordinates of the DTV allotment to determine protection from new DTV allotments pursuant to § 73.623(d) and from subsequent DTV applications filed pursuant to § 73.623(e).~~

[Next Page is No. 396.22a]

- 396.22 -

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (3) The reference coordinates defined in paragraphs (d)(1) and (d)(2) of this section shall be used in considering petitions to amend the DTV Table of Allotments and in determining whether interference occurs between DTV stations and between DTV and analog TV stations. (Added 97-115, 6/13/97)
- (4) In cases where there are pending applications for DTV stations in other communities which, if granted, would have to be considered in determining whether proposed or modified stations would meet the required technical criteria or separations, as defined in § 73.623, the coordinates of the transmitter sites proposed in such applications must be used to determine whether those requirements have been met. (Added 97-115, 6/13/97)
- (5) To calculate the distance between two reference points, see § 73.208(c). However, distances shall be rounded to the nearest tenth of a kilometer. (Added 97-115, 6/13/97)

[Next Page is No. 396.23]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(e) **DTV SERVICE AREAS.** (Added 97-115, 6/13/97)

(1) The service area of a DTV station is the geographic area within ~~which the predicted the station's noise-limited F(50,90) contour where its signal strength is predicted to exceed the noise-limited service level. The noise-limited contour is the area in which the predicted F(50,90) field strength of the station's signal, in dB above 1 microvolt per meter (dBu) as determined using the method in section 73.625(d), exceeds the following levels (these are the levels at which reception of DTV service is limited by noise):~~ field strength of the station's signal, in dB above 1 microvolt per meter (dBu), exceeds the following levels:

	dBu
Channels 2—6	28
Channels 7—13	36
Channels 14—69	41

(Table Added 97-115, 6/13/97)

~~These are the levels at which reception of DTV service is limited by noise. Evaluation of field strength in determining service areas shall be made Within this contour, service is considered available at locations where the station's signal strength, as predicted using the terrain dependent Longley-Rice point-to-point propagation model, exceeds the levels above.~~ Guidance for evaluating coverage areas using the Longley-Rice methodology is provided in *OET Bulletin No. 69*. Copies of *OET Bulletin No. 69* may be inspected during normal business hours at the: Federal Communications Commission, 1919 M St., N.W., Dockets Branch (Room 239), Washington, DC, 20554. This document is also available through the Internet on the *FCC Home Page* at <http://www.fcc.gov>.

Note to paragraph (e)(1): During the transition, in cases where the assigned power of UHF DTV station in the initial DTV Table is 1000 kW, the Grade B contour of the associated analog television station, as authorized on April 3, 1997, shall be used instead of the noise-limited contour of the DTV station in determining the DTV station's service area. In such cases, the DTV service area is the geographic area within the station's analog Grade B contour where its DTV signal strength is predicted to exceed the noise-limited service level, *i.e.* 41 dB, as determined using the Longley-Rice methodology.

(2) For purposes of determining whether interference is caused to a DTV station's service area, the maximum technical facilities, *i.e.*, antenna height above average terrain (antenna HAAT) and effective radiated power (ERP), specified for the station's allotment are to be used in determining its service area.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (f) **DTV MAXIMUM POWER AND ANTENNA HEIGHTS.** (Added 97-115, 6/13/97)
- (1) The maximum, or reference, effective radiated power (ERP) and antenna height above average terrain (antenna HAAT) for an allotment included in the initial DTV Table of Allotments are set forth in Appendix B of the Sixth Report Memorandum Opinion and Order in MM Docket 87-268 (referenced in paragraph (c) of this section). ~~These limits also appear on the construction permit and license issued for each DTV station.~~ In each azimuthal direction, the reference ERP value is based on the antenna HAAT of the corresponding analog TV station and achieving predicted coverage equal to that analog TV station's predicted Grade B contour, as defined in § section 73.683.
- (2) An application for authority to construct or modify DTV facilities will not be subject to further consideration of electromagnetic interference to other DTV or analog TV broadcast stations, allotments or applications, provided that: (Added 97-115, 6/13/97)
- (i) The proposed ERP in each azimuthal direction is equal to or less than the reference ERP in that direction; and (Added 97-115, 6/13/97)
- (ii) The proposed antenna HAAT is equal to or less than the reference antenna HAAT or the proposed antenna HAAT exceeds the reference antenna HAAT by 10 meters or less and the reference ERP in paragraph (f)(2)(i) of this section is adjusted in accordance with paragraph (f)(3) of this section; and
- (iii) The application complies with the location provisions in paragraph (d)(1) of this section. (Added 97-115, 6/13/97)

[Next Page is No. 396.24a]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (3) (i) A DTV station may increase its antenna HAAT by up to 10 meters from that specified in Appendix B if it reduces its DTV power to a level at or below the level of adjusted DTV power computed in the following formula: ERP adjustment in dB = $20\log(H_1/H_2)$
Where H_1 = Reference antenna HAAT specified in the DTV Table, and H_2 = Actual antenna HAAT
- (ii) Alternatively, a DTV application that specifies an antenna HAAT within 25 meters below that specified in Appendix B may adjust its power upward to a level at or below the adjusted DTV power in accordance with the formula in paragraph (f)(3)(i) of this section without an interference showing. For a proposed antenna more than 25 meters below the reference antenna HAAT, the DTV station may increase its ERP up to the level permitted for operation with an antenna that is 25 meters below the station's reference antenna HAAT.
- (4) UHF DTV stations may request an increase in power, up to a maximum of 1000 kW ERP, to enhance service within their authorized service area through use of antenna beam tilting in excess of 1 degree, as follows:
- (i) Field strengths at the outer edge of the station's service area shall be no greater than the levels that would exist if the station were operating at its assigned DTV power.

[Next Page is No. 396.25]

April 20, 1998
98-24
¹May 19, 1998
98-24

73.622(f)(4)(ii)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (ii) Where a station operates at higher power under the provisions of this paragraph, its field strengths at the edge of its service area are to be calculated assuming 1 dB of additional antenna gain over the antenna gain pattern specified by the manufacturer.
- (iii) Where a first adjacent channel DTV station or allotment is located closer than 110 km or a first adjacent channel analog TV station is located closer than 106 km from the proposed transmitter site, the application must be accompanied by a technical showing that the proposed operation complies with the technical criteria in § 73.623(c) and thereby will not result in new interference exceeding the *de minimis* standard for new interference set forth in that section, or statements from affected stations agreeing to the proposed operation in accordance with § 73.623(f).
- ¹(iv) A licensee desiring to operate at higher power under these provisions shall submit, with its initial application for a DTV construction permit or subsequent application to modify its DTV facilities, an engineering analysis demonstrating that the predicted field strengths and predicted interference within its service area would comport with the requirements of this paragraph. The licensee also must notify, by certified mail, all stations that could potentially be affected by such operation at the time the station files its application for a construction permit or modification of facilities. Potentially affected stations to be notified include stations on co-channel and first-adjacent channel allotments that are located at distances less than the minimum geographic spacing requirements in § 73.623(d)(2). For example, in Zone I a co-channel DTV station within 196.3 km or a first-adjacent channel DTV station within 110 km must be notified. A station that believes that its service is being affected beyond the *de minimis* standard set for in § 73.623(c) may file an informal objection with the Commission. Such an informal objection shall include an engineering analysis demonstrating that additional impermissible interference would occur. The Commission may condition grant of authority to operate at increased power pursuant to this provision on validation of actual performance through field measurements.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (5) Licensees and permittees assigned a DTV channel in the initial DTV Table of Allotments may request an increase in either ERP in some azimuthal direction or antenna HAAT, or both, that exceed the initial technical facilities specified for the allotment in Appendix B of the *Memorandum Opinion and Order* (referenced in paragraph (c) of this section), up to the maximum permissible limits on DTV power and antenna height set forth in paragraph (f)(6), (f)(7), or (f)(8) of this section, as appropriate, or up to that needed to provide the same geographic coverage area as the largest station within their market, whichever would allow the largest service area. Such requests must be accompanied by a technical showing that the increase complies with the technical criteria in § 73.623(c), and thereby will not result in new interference exceeding the *de minimis* standard set forth in that section, or statements agreeing to the change from any co-channel or adjacent channel stations that might be affected by potential new interference, in accordance with § 73.623(f). In the case where a DTV station has been granted authority to construct pursuant to § 73.623(c), and its authorized coverage area extends in any azimuthal direction beyond the DTV coverage area determined for the DTV allotment reference facilities, then the authorized DTV facilities are to be used in addition to the assumed facilities of the initial DTV allotment to determine protection from new DTV allotments pursuant to § 73.623(d) and from subsequent DTV applications filed pursuant to § 73.623(c). The provisions of this paragraph regarding increases in the ERP or antenna height of DTV stations on channels in the initial DTV Table of Allotments shall also apply in cases where the licensee or permittee seeks to change the station's channel as well as alter its ERP and antenna HAAT. Licensees and permittees are advised that where a channel change is requested, it may, in fact, be necessary in specific cases for the station to operate with reduced power, a lower antenna, or a directional antenna to avoid causing new interference to another station.

[Next Page is No. 396.26a]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (6) A DTV station that operates on a channel ~~2-614-59~~ allotment created subsequent to the initial DTV Table will be allowed a maximum ERP of ~~1000 10~~ kW ~~if their~~ its antenna HAAT is at or below 365305 meters and it is located in Zone I or a maximum ERP of 45 kW if its antenna HAAT is at or below 305 meters and it is located in Zone II or Zone III. A DTV station that operates on a channel 2-6 allotment included in the initial DTV Table of Allotments may request an increase in power and/or antenna HAAT up to these maximum levels, provided the increase also complies with the provisions of paragraph (f)(5) of this section.
- (i) At higher HAAT levels, such DTV stations will be allowed to operate with lower maximum ERP levels in accordance with the following table and formulas (the allowable maximum ERP for intermediate values of HAAT is determined using linear interpolation based on the units employed in the table):

MAXIMUM ALLOWABLE ERP AND ANTENNA HEIGHT FOR DTV STATIONS IN ZONES II OR III ON CHANNELS 2-6

Antenna HAAT (meters)	ERP (kW)
610	10
580	11
550	12
520	14
490	16
460	19
425	22
395	26
365	31
335	37
305	45

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (ii) ~~The allowable maximum ERP for intermediate values of HAAT is determined using linear interpolation based on the units employed in the table.~~ For DTV stations located in Zone I, ~~II or III~~ that operate on channels ~~14-59~~ 2-6 with an HAAT that exceeds ~~610~~ 305 meters, the allowable maximum ERP expressed in decibels above 1 kW (dBk) is determined using the following formula, with HAAT expressed in meters:

$$ERP_{\max} = 92.57 - 33.24 * \log_{10}(\text{HAAT})$$

- (iii) For DTV stations located in Zone II or III that operate on channels 2-6 with an HAAT that exceeds 610 meters, the allowable maximum ERP expressed in decibels above 1 kW (dBk) is determined using the following formula, with HAAT expressed in meters:

$$ERP_{\max} = 57.57 - 17.08 * \log_{10}(\text{HAAT})$$

- (7) A DTV station that operates on a channel 7-13 allotment created subsequent to the initial DTV Table will be allowed a maximum ERP of 30 kW if its antenna HAAT is at or below 305 meters and it is located in Zone I or a maximum ERP of 160 kW if its antenna HAAT is at or below 305 meters and it is located in Zone II or Zone III. A DTV station that operates on a channel 7-13 allotment included in the initial DTV Table of Allotments may request an increase in power and/or antenna HAAT up to these maximum levels, provided the increase also complies with the provisions of paragraph (f)(5) of this section.

- (i) At higher HAAT levels, such DTV stations will be allowed to operate with lower maximum ERP levels in accordance with the following table and formulas (the allowable maximum ERP for intermediate values of HAAT is determined using linear interpolation based on the units employed in the table):

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

MAXIMUM ALLOWABLE ERP AND ANTENNA HEIGHT FOR DTV STATIONS IN ZONES II OR III ON CHANNELS 7—13

Antenna HAAT (meters)	ERP (kW)
610	30
580	34
550	40
520	47
490	54
460	64
425	76
395	92
365	110
335	132
305	160

- (ii) For DTV stations located in Zone I that operate on channels 7—13 with an HAAT that exceeds 305 meters, the allowable maximum ERP expressed in decibels above 1 kW (dBk) is determined using the following formula, with HAAT expressed in meters:

$$ERP_{\max} = 97.35 - 33.24 * \log_{10}(\text{HAAT})$$

- (iii) For DTV stations located in Zone II or III that operate on channels 7—13 with an HAAT that exceeds 610 meters, the allowable maximum ERP expressed in decibels above 1 kW (dBk) is determined using the following formula, with HAAT expressed in meters:

$$ERP_{\max} = 62.34 - 17.08 * \log_{10}(\text{HAAT})$$

- (8) A DTV station that operates on a channel 14—59 allotment created subsequent to the initial DTV Table will be allowed a maximum ERP of 1000 kW if their antenna HAAT is at or below 365 meters. A DTV station that operates on a channel 14—59 allotment included in the initial DTV Table of Allotments may request an increase in power and/or antenna HAAT up to these maximum levels, provided the increase also complies with the provisions of paragraph (f)(5) of this section.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (i) At higher HAAT levels, such DTV stations will be allowed to operate with lower maximum ERP levels in accordance with the following table and formulas (the allowable maximum ERP for intermediate values of HAAT is determined using linear interpolation based on the units employed in the table):

MAXIMUM ALLOWABLE ERP AND ANTENNA HEIGHT FOR DTV STATIONS ON CHANNELS
14—59, ALL ZONES

Antenna HAAT (meters)	ERP (kW)
610	316
580	350
550	400
520	460
490	540
460	630
425	750
395	900
365	1000

- (ii) For DTV stations located in Zone I, II or III that operate on channels 14—59 with an HAAT that exceeds 610 meters, the allowable maximum ERP expressed in decibels above 1 kW (dBk) is determined using the following formula, with HAAT expressed in meters:

$$ERP_{\max} = 72.57 - 17.08 * \log_{10}(\text{HAAT})$$

- (g) **DTV STATIONS OPERATING ON CHANNELS ABOVE AN ANALOG TV STATION.**

- (1) ~~For DTV stations operating on using~~ a channel allotment designated with a "c" in paragraph (b) of this section ~~must maintain~~ the pilot carrier frequency of the DTV signal ~~must be maintained~~ 5.082138 MHz above the visual carrier frequency of the analog TV broadcast station ~~that operates operating~~ on the lower adjacent channel, ~~and is located within 88 kilometers of the DTV broadcast station.~~ This frequency difference must be maintained within a tolerance of ± 3 Hz.

[Next Page is No. 396.27]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (2) Unless it conflicts with operation complying with paragraph (g)(1) of this section, where a low power television station or TV translator station is operating on the lower adjacent channel within 32 km of the DTV station and notifies the DTV station that it intends to minimize interference by precisely maintaining its carrier frequencies, the DTV station shall cooperate in locking its carrier frequency to a common reference frequency and shall be responsible for any costs relating to its own transmission system in complying with this provision.
- (h) (1) The ~~field strength or voltage~~ power level of emissions on frequencies outside the authorized channel of operation must be attenuated no less than the following amounts below the average transmitted power within the authorized channel. ~~In the first 500 kHz from the channel edge~~ At the channel edge, emissions must be attenuated no less than ~~46.47~~ dB. More than 6 MHz from the channel edge, emissions must be attenuated no less than ~~7+11Q~~ dB. At any frequency between 0.5 and 6 MHz from the channel edge, emissions must be attenuated no less than the value determined by the following formula:

$$\text{Attenuation in dB} = 46 + 11.5 \left[\frac{(\Delta f)^2}{1.44 + 3.6} \right] - 11.5(\Delta f + 3.6)$$

Where: Δf = frequency difference in MHz from the edge of the channel. (Added 97-115, 6/13/97)

- (2) This attenuation is based on a measurement bandwidth of 500 kHz. Other measurement bandwidths may be used as long as appropriate correction factors are applied. ~~Measurements need not be made any closer to the band edge than one half of the resolution bandwidth of the measuring instrument.~~ Emissions include sidebands, spurious emissions and radio frequency harmonics. Attenuation is to be measured at the output terminals of the transmitter (including any filters that may be employed). In the event of interference caused to any service, greater attenuation may be required.

~~Note to paragraph (h): Greater attenuation may be required for situations where the DTV station and an adjacent channel analog TV station serve the same area and there are expected to be locations within that shared area where the analog TV station's field strength is less than 12 dB above the DTV station's field strength.~~

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.623 DTV APPLICATIONS AND CHANGES TO DTV ALLOTMENTS. (Added 97-115, 6/13/97)

(a) **GENERAL.** (Added 97-115, 6/13/97)

This section contains the technical criteria for evaluating applications requesting DTV facilities that do not conform to the provisions of § 73.622 and petitions for rule making to amend the DTV Table of Allotments (§ 73.622 (b)). Petitions to amend the DTV Table (other than those also expressly requesting amendment of this section) and applications for new DTV broadcast stations or for changes in authorized DTV stations filed pursuant to this section will not be accepted for filing if they fail to comply with the requirements of this section. (Added 97-115, 6/13/97)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(b) In considering petitions to amend the DTV Table and applications filed pursuant to this section, the Commission will use geographic coordinates defined in § 73.622(d) as reference points in determining allotment separations and evaluating interference potential. (Added 97-115, 6/13/97)

- (c) **MINIMUM TECHNICAL CRITERIA FOR MODIFICATION OF DTV ALLOTMENTS INCLUDED IN THE INITIAL DTV TABLE OF ALLOTMENTS AND FOR APPLICATIONS FILED PURSUANT TO THIS SECTION.** (Added 97-115, 6/13/97)

No petition to modify a channel allotment included in the initial DTV Table of Allotments or application for authority to construct or modify a DTV station assigned to such an allotment, filed pursuant to this section, will be accepted unless it shows compliance with the requirements of this paragraph.

- (1) Requests filed pursuant to this paragraph must demonstrate compliance with the principal community coverage requirements of § 73.625(a). (Added 97-115, 6/13/97)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (2) Requests filed pursuant to this paragraph must demonstrate that the requested change would not result in more than an additional 2 percent the population served by another station being subject to interference; provided, however, that no new interference may be caused to any station that already experiences interference to 10 percent or more of its population or that would result in a station receiving interference in excess of 10 percent of its population. The station population values for existing NTSC service and DTV service contained in Appendix B of the *Memorandum Opinion and Order on Reconsideration of the Sixth Report and Order* in MM Docket No. 87-268, FCC 98-24, adopted January 29, 1998, referenced in § 73.622(c), are to be used for the purposes of determining whether a power increase or other change is permissible under this *de minimis* standard. For evaluating compliance with this requirement, interference to populations served is to be predicted based on the procedure set forth in *OET Bulletin No. 69*, including population served within service areas determined in accordance with section 73.622(e), consideration of whether F(50,10) undesired signals will exceed the following desired-to-undesired (D/U) signal ratios, assumed use of a directional receiving antenna, and use of the terrain dependent Longley-Rice point-to-point propagation model. Copies of *OET Bulletin No. 69* may be inspected during normal business hours at the: Federal Communications Commission, 1919 M St., N.W., Dockets Branch (Room 239), Washington, DC 20554. These documents are also available through the Internet on the *FCC Home Page* at <http://www.fcc.gov>. The threshold levels at which interference is considered to occur are: (Added 97-115, 6/13/97)

[Next Page is No. 396.30a]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

	D/U ratio
Co-channel:	
DTV-into-analog TV	+34
Analog TV-into-DTV	+2
DTV-into-DTV	+15
First Adjacent Channel:	
Lower DTV-into-analog TV	-17 <u>-14</u>
Upper DTV-into-analog TV	-12 <u>-17</u>
Lower analog TV-into-DTV	-48
Upper analog TV-into-DTV	-49
Lower DTV-into-DTV	-42 <u>-28</u>
Upper DTV-into-DTV	-43 <u>-26</u>
Other Adjacent Channel (Channels 14—69 only)	
DTV-into-analog TV, where N=analog TV channel and DTV Channel:	
N-2	-24
N+2	-28
N-3	-30
N+3	-34
N-4	-34
N+4	-25
N-7	-35
N+7	-34 <u>-43</u>
N-8	-32
N+8	-43
N+14	-33
N+15	-31

~~Note to paragraph (c)(2):~~ The values for co-channel interference to DTV service are only valid at locations where the signal-to-noise ratio is 28 dB or greater. At the edge of the noise-limited service area, where the signal-to-noise ratio is 16 dB, these values are 21 dB and 23 dB for interference from analog TV and DTV, respectively. Due to the frequency spacing that exists between Channels 4 and 5, between Channels 6 and 7, and between Channels 13 and 14, the minimum adjacent channel technical criteria specified in the table shall not be applicable to these pairs of channels (see § 73.603(a)).

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(3) The values in paragraph (c)(2) of this section for co-channel interference to DTV service are only valid at locations where the signal-to-noise ratio is 28 dB or greater for interference from DTV and 25 dB or greater for interference from analog TV service. At the edge of the noise-limited service area, where the signal-to-noise (S/N) ratio is 16 dB, these values are 21 dB and 23 dB for interference from analog TV and DTV, respectively. At locations where the S/N ratio is greater than 16 dB but less than 28 dB, D/U values for co-channel interference to DTV are as follows:

(i) For DTV-to-DTV interference, the minimum D/U ratios are computed from the following formula:

$$D/U = 15 + 10 \log_{10} [1.0 / (1.0 - 10^{-x/10})]$$

Where $x = S/N - 15.19$ (minimum signal to noise ratio)

(ii) For analog-to-DTV interference, the minimum D/U ratios are found from the following Table (for values between measured values, linear interpolation can be used):

Signal-to-noise ratio (dB)	Desired-to-undesired ratio (dB)
16.00	21.00
16.35	19.94
17.35	17.69
18.35	16.44
19.35	7.19
20.35	4.69
21.35	3.69
22.35	2.94
23.35	2.44
25.00	2.00

(4) Due to the frequency spacing that exists between Channels 4 and 5, between Channels 6 and 7, and between Channels 13 and 14, the minimum adjacent channel technical criteria specified in paragraph (c)(2) of this section shall not be applicable to these pairs of channels (see § 73.603(a)).

[Next Page is No. 396.31]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (d) (1) **MINIMUM GEOGRAPHIC SPACING REQUIREMENTS FOR DTV ALLOTMENTS NOT INCLUDED IN THE INITIAL DTV TABLE OF ALLOTMENTS.** (Added 97-115, 6/13/97)

No petition to add a new channel to the DTV Table of Allotments ~~or modify an allotment not included in the initial DTV Table~~ will be accepted unless it ~~demonstrates shows~~ compliance with the ~~principle community coverage~~ requirements of ~~this paragraph, § 73.625(a)~~ and meets the ~~following requirements for geographic spacing with regard to all other DTV stations, DTV allotments and analog TV stations:~~

- (2) Requests filed pursuant to this paragraph must meet the following requirements for geographic spacing with regard to all other DTV stations, DTV allotments and analog TV stations:

Channel relationship	Separation requirement
VHF Channels 2—13:	
Co-channel, DTV to DTV	Zone I: 244.6 km. Zones II & III: 273.6 km.
Co-channel, DTV to analog TV	Zone I: 244.6 km. Zones II & III: 273.6 km.
Adjacent Channel:	
DTV to DTV	No allotments permitted between: Zone I: 20 km and 110 km. Zones II & III: 23 km and 110 km.
DTV to analog TV	No allotments permitted between: Zone I: 9 km and 125 km. Zones II & III: 11 km and 125 km.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

Channel relationship	Separation requirement
UHF Channels:	
Co-channel, DTV to DTV	Zone I: 196.3 km. Zone II & III: 223.7 km.
Co-channel, DTV to analog TV	Zone I: 217.3 km. Zone II & III: 244.6 km.
Adjacent Channel:	
DTV to DTV	No allotments permitted between: All Zones: 24 km and 110 km.
DTV to analog TV	No allotments permitted between: All Zones: 12 km and 106 km.
Taboo Channels, DTV to analog TV only (DTV channels +/-2, +/-3, +/-4, +/-7, +/-8, and 14 or 15 channels above the analog TV channel).	No allotments permitted Zone I: 24.1 km and 80.5 km Zone II & III: 24.1 km and 96.6 km.

~~Note to paragraph (d)(1): Due to the frequency spacing that exists between Channels 4 and 5, between Channels 6 and 7, and between Channels 13 and 14, the minimum geographic spacing requirements specified in the table shall not be applicable to these pairs of channels (see § 73.603(a)).~~

- (2)(3) Zones are defined in § 73.609. The minimum distance separation between a DTV station in one zone and an analog TV or DTV station in another zone shall be that of the zone requiring the lower separation.
- (4) Due to the frequency spacing that exists between Channels 4 and 5, between Channels 6 and 7, and between Channels 13 and 14, the minimum geographic spacing requirements specified in paragraph (d)(3) of this section shall not be applicable to these pairs of channels (§ 73.603(a)).

[Next Page is No. 396.32a]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(e) **PROTECTION OF LAND MOBILE OPERATIONS ON CHANNELS 14—20.** (Added 97-115, 6/13/97)

The Commission will not accept petitions to amend the DTV Table of Allotments, applications for new DTV stations, or applications to change the channel or location of authorized DTV stations that would use channels 14—20 where the distance between the DTV reference point as defined in § Section 73.622(d), would be located less than 250 km from the city center of a co-channel land mobile operation or 176 km from the city center of an adjacent channel land mobile operation. Petitions to amend the DTV Table, applications for new DTV stations, or requests to modify the DTV Table that do not meet the minimum DTV-to-land mobile spacing standards will, however, be considered where all affected land mobile licensees consent to the requested action. Land mobile operations are authorized on these channels in the following markets:

City	Channels	Latitude	Longitude
Boston, MA	14, 16	42°21'24"	71°03'25"
Chicago, IL	14, 15	41°52'28"	87°38'22"
Dallas, TX	16	32°47'09"	96°47'37"
Houston, TX	17	29°45'26"	95°21'37"
Los Angeles, CA	14, 16, 20	34°03'15"	118°14'28"
Miami, FL	14	25°46'37"	80°11'32"
New York, NY	4 14, 15	40°45'06"	73°59'39"
Philadelphia, PA	19, 20	39°56'58"	75°09'21"
Pittsburgh, PA	14, 18	40°26'19"	80°00'00"
San Francisco, CA	16, 17	37°46'39"	122°24'40"
Washington, DC	17, 18	38°53'51"	77°00'33"

[Next Page is No. 396.33]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(f) **NEGOTIATED AGREEMENTS ON INTERFERENCE.** (Added 97-115, 6/13/97)

Notwithstanding the minimum technical criteria for DTV allotments specified ~~in paragraph (b) of this section above~~, DTV stations operating on allotments that are included in the initial DTV Table may operate with increased ERP and/or antenna HAAT that would result in additional interference to ~~an analog another DTV station or an analog TV station~~ if that station agrees, in writing, to accept the additional interference; and/or implement an exchange of channel allotments between two or more licensees or permittees of TV stations in the same community, the same market, or in adjacent markets provided, however, that the other requirements of this section and of section 73.622 are met with respect to each such application. Such agreements must be submitted with the application for authority to construct or modify the affected DTV station's facilities station and stations. The larger service area resulting from ~~such a negotiated change of in~~ ERP and/or antenna HAAT will be protected in accordance with the provisions of paragraph (c) of this section. Negotiated agreements under this paragraph can include the exchange of money or other considerations from one station to another, including payments to and from noncommercial television stations assigned reserved channels. Applications submitted pursuant to the provisions of this paragraph will be granted only if the Commission finds that such action is consistent with the public interest.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.624 DIGITAL TELEVISION BROADCAST STATIONS.
(Added 97-116, 6/16/97)

(a) Digital television ("DTV") broadcast stations are assigned channels 6 MHz wide. Initial eligibility for licenses for DTV broadcast stations is limited to persons that, as of April 3, 1997, are licensed to operate a full power television broadcast station or hold a permit to construct such a station (or both) (Added 97-116, 6/16/97)

(b) At any time that a DTV broadcast station permittee or licensee transmits a video program signal on its analog television channel, it must also transmit at least one over-the-air video program signal at no direct charge to viewers on the DTV channel that is licensed with the analog channel. The DTV program service provided pursuant to this paragraph must be at least comparable in resolution to the analog television station programming transmitted to viewers on the analog channel but, subject to paragraph (f) of this section, DTV broadcast stations are not required to simulcast the analog programming. (Added 97-116, 6/16/97)

(c) Provided that DTV broadcast stations comply with paragraph (b) of this section, DTV broadcast stations are permitted to offer ~~telecommunications~~ services of any nature, consistent with the public interest, convenience, and necessity, on an ancillary or supplementary basis. The kinds of services that may be provided include, but are not limited to computer software distribution, data transmissions, teletext, interactive materials, aural messages, paging services, audio signals, subscription video, and any other services that do not derogate DTV broadcast stations' obligations under paragraph (b) of this section. Such services may be provided on a broadcast, point-to-point or point-to-multipoint basis, provided, however, that ~~no any~~ video broadcast signal provided at no direct charge to viewers shall not be considered ancillary or supplementary.

- (1) DTV licensees that provide ancillary or supplementary services that are analogous to other ~~telecommunications~~ services subject to regulation by the Commission must comply with the Commission regulations that apply to those services, provided, however, that no ancillary or supplementary service shall have any rights to carriage under ~~section §§~~ 614 or 615 of the Communications Act of 1934, as amended, or be deemed a multichannel video programming distributor for purposes of section 628 of the Communications Act of 1934, as amended.
- (2) In all arrangements entered into with outside parties affecting ~~telecommunications~~ service operation, the DTV licensee or permittee must retain control over all material transmitted in a broadcast mode via the station's facilities, with the right to reject any material in the sole judgment of the permittee or licensee that it deems inappropriate or undesirable. The licensee or permittee is also responsible for all aspects of technical operation involving such ~~telecommunications~~ services.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (3) In any application for renewal of a broadcast license for a television station that provides ancillary or supplementary services, a licensee shall establish that all of its program services on the analog and the DTV spectrum are in the public interest. Any violation of the Commission's rules applicable to ancillary or supplementary services will reflect on the licensee's qualifications for renewal of its license.

(d) Digital television broadcast facilities that comply with the FCC DTV Standard (section 73.682(d)), shall be constructed in the following markets by the following dates:

- (1) (i) May 1, 1999: all network-affiliated television stations in the top ten television markets;
- (ii) November 1, 1999: all network-affiliated television stations not included in category (1)(i) and in the top 30 television markets;
- (iii) May 1, 2002: all remaining commercial television stations;
- (iv) May 1, 2003: all noncommercial television stations.
- (2) For the purposes of paragraph (d)(1)
- (i) the term, "network," is defined to include the ABC, CBS, NBC, and Fox television networks;
- (ii) the term, "television market," is defined as the Designated Market Area or DMA as defined by Nielsen Media Research as of April 3, 1997; and
- (iii) the terms, "network-affiliated" or "network-affiliate," are defined to include those television stations affiliated with at least one of the four networks designated in paragraph (d)(2)(i) as of April 3, 1997. In those DMAs in which a network has more than one network affiliate, paragraphs (d)(1)(i) and (ii) of this section shall apply to its network affiliate with the largest audience share for the 9 a.m. to midnight time period as measured by Nielsen Media Research in its Nielsen Station Index, Viewers in Profile, as of February, 1997.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(3) AUTHORITY DELEGATED.

- (i) Authority is delegated to the Chief, Mass Media Bureau to grant an extension of time of up to six months beyond the relevant construction deadline specified in paragraph (d)(1) of this section upon demonstration by the DTV licensee or permittee that failure to meet that construction deadline is due to circumstances that are either unforeseeable or beyond the licensee's control where the licensee has taken all reasonable steps to resolve the problem expeditiously.
- (ii) Such circumstances shall include, but shall not be limited to: (a) inability to construct and place in operation a facility necessary for transmitting digital television, such as a tower, because of delays in obtaining zoning or FAA approvals, or similar constraints; or (b) the lack of equipment necessary to obtain a digital television signal.
- (iii) The Bureau may grant no more than two extension requests upon delegated authority. Subsequent extension requests shall be referred to the Commission. The Bureau may not on delegated authority deny an extension request but must refer recommended denials to the Commission.
- (iv) Applications for extension of time shall be filed at least 30 days prior to the relevant construction deadline, absent a showing of sufficient reasons for filing within less than 30 days of the relevant construction deadline.

(e) The application for construction permit must be filed on Form 301 (except for noncommercial stations, which must file on Form 340) on or before the date on which half of the construction period has elapsed. Thus, for example, for applicants in category (d)(1)(i), the application for construction period must be filed by May 1, 1998.

- (f)
 - (i) Commencing on April 1, 2003, DTV television licensees and permittees must simulcast 50 percent of the video programming of the analog channel on the DTV channel.
 - (ii) Commencing on April 1, 2004, DTV licensees and permittees must simulcast 75% of the video programming of the analog channel on the DTV channel.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (iii) Commencing on April 1, 2005, DTV licensees and permittees must simulcast 100% of the video programming of the analog channel on the DTV channel.
- (iv) The simulcasting requirements imposed in paragraphs (f)(i)-(iii) of this section will terminate when the analog channel terminates operation and a 6 MHz channel is returned by the DTV licensee or permittee to the Commission.

73.625 DTV COVERAGE OF PRINCIPAL COMMUNITY AND ANTENNA SYSTEM.

(a) TRANSMITTER LOCATION.

- (1) The DTV transmitter location shall be chosen so that, on the basis of the effective radiated power and antenna height above average terrain employed, the following minimum F (50,90) field strength in dB above one uV/m will be provided over the entire principal community to be served:

Channels 2—6.....	28 dBu
Channels 7—13.....	36 dBu
Channels 14—69.....	41 dBu

- (2) The location of the antenna must be so chosen that there is not a major obstruction in the path over the principal community to be served.
- (3) For the purposes of this section, coverage is to be determined in accordance with paragraph (b) of this section. Under actual conditions, the true coverage may vary from these estimates because the terrain over any specific path is expected to be different from the average terrain on which the field strength charts were based. Further, the actual extent of service will usually be less than indicated by these estimates due to interference from other stations. Because of these factors, the predicted field strength contours give no assurance of service to any specific percentage of receiver locations within the distances indicated.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(b) **DETERMINING COVERAGE.**

- (1) In predicting the distance to the field strength contours, the F (50,50) field strength charts (Figures 9, 10 and 10b of § 73.699 of this part) and the F (50,10) field strength charts (Figures 9a, 10a and 10c of § 73.699 of this part) shall be used. To use the charts to predict the distance to a given F (50,90) contour, the following procedure is used: Convert the effective radiated power in kilowatts for the appropriate azimuth into decibel value referenced to 1 kW (dBk). Subtract the power value in dBk from the contour value in dBu. Note that for power less than 1 kW, the difference value will be greater than the contour value because the power in dBk is negative. Locate the difference value obtained on the vertical scale at the left edge of the appropriate F (50,50) chart for the DTV station's channel. Follow the horizontal line for that value into the chart to the point of intersection with the vertical line above the height of the antenna above average terrain for the appropriate azimuth located on the scale at the bottom of the chart. If the point of intersection does not fall exactly on a distance curve, interpolate between the distance curves below and above the intersection point. The distance values for the curves as located along the right edge of the chart. Using the appropriate F (50,10) chart for DTV station's channel, locate the point where the distance coincides with the vertical line above the height of the antenna above average terrain for the appropriate azimuth located on the scale at the bottom of the chart. Follow a horizontal line from that point to the left edge of the chart to determine the F (50,10) difference value. Add the power value in dBk to this difference value to determine the F (50,10) contour value in dBu. Subtract the F (50,50) contour value in dBu from this F (50,10) contour value in dBu. Subtract this difference from the F (50,50) contour value in dBu to determine the F (50,90) contour value in dBu at the pertinent distance along the pertinent radial.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (2) The effective radiated power to be used is that radiated at the vertical angle corresponding to the depression angle between the transmitting antenna center of radiation and the radio horizon as determined individually for each azimuthal direction concerned. In cases where the relative field strength at this depression angle is 90% or more of the maximum field strength developed in the vertical plane containing the pertaining radial, the maximum radiation shall be used. The depression angle is based on the difference in elevation of the antenna center of radiation above the average terrain and the radio horizon, assuming a smooth spherical earth with a radius of 8,495.5 kilometers (5,280 miles) and shall be determined by the following equation:

$$A=0.0277 \text{ square root of } H$$

Where:

A is the depression angle in degrees.

H is the height in meters of the transmitting antenna radiation center above average terrain of the 3.2—16.1 kilometers (2-10 miles) sector of the pertinent radial.

This formula is empirically derived for the limited purpose specified here. Its use for any other purpose may be inappropriate.

- (3) Applicants for new DTV stations or changes in the facilities of existing DTV stations must submit to the FCC a showing as to the location of their stations' or proposed stations' contour. This showing is to include a map showing this contour, except where applicants have previously submitted material to the FCC containing such information and it is found upon careful examination that the contour locations indicated therein would not change, on any radial, when the locations are determined under this section. In the latter cases, a statement by a qualified engineer to this effect will satisfy this requirement and no contour maps need be submitted.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (4) The antenna height to be used with these charts is the height of the radiation center of the antenna above the average terrain along the radial in question. In determining the average elevation of the terrain, the elevations between 3.2-16.1 kilometers (2-10 miles) from the antenna site are employed. Profile graphs shall be drawn for 8 radials beginning at the antenna site and extending 16.1 kilometers (10 miles) therefrom. The radials should be drawn for each 45 degrees of azimuth starting with True North. At least one radial must include the principal community to be served even though such community may be more than 16.1 kilometers (10 miles) from the antenna site. However, in the event none of the evenly spaced radials include the principal community to be served and one or more such radials are drawn in addition to the 8 evenly spaced radials, such additional radials shall not be employed in computing the antenna height above average terrain. Where the 3.2-16.1 kilometers (2-10 mile) portion of a radial extends in whole or in part over large bodies of water (such as ocean areas, gulfs, sounds, bays, large lakes, etc., but not rivers) or extends over foreign territory but the contour encompasses land area within the United States beyond the 16.1 kilometers (10 mile) portion of the radial, the entire 3.2—16.1 kilometers (2-10 mile) portion shall be included in the computation of antenna height above average terrain. However, where the contour does not so encompass United States land area and (1) the entire 3.2-16.1 kilometers (2-10 mile) portion of the radial extends over large bodies of water or foreign territory, such radial shall be completely omitted from the computation of antenna height above average terrain, and (2) where a part of the 3.2—16.1 kilometers (2-10 mile) portion of a radial extends over large bodies of water or over foreign territory, only that part of the radial extending from the 3.2 kilometer (2 mile) sector to the outermost portion of land area within the United States covered by the radial shall be employed in the computation of antenna height above average terrain. The profile graph for each radial should be plotted by contour intervals of from 12.2-30.5 meters (40-100 feet) and, where the data permits, at least 50 points of elevation (generally uniformly spaced) should be used for each radial. In instances of very rugged terrain where the use of contour intervals of 30.5 meters (100 feet) would result in several points in a short distance, 61.0-122.0 meter (200-400 foot) contour intervals may be used for such distances.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

On the other hand, where the terrain is uniform or gently sloping the smallest contour interval indicated on the topographic map (see paragraph (b)(5) of this section) should be used, although only relatively few points may be available. The profile graphs should indicate the topography accurately for each radial, and the graphs should be plotted with the distance in kilometers as the abscissa and the elevation in meters above mean sea level as the ordinate. The profile graphs should indicate the source of the topographical data employed. The graph should also show the elevation of the center of the radiating system. The graph may be plotted either on rectangular coordinate paper or on special paper which shows the curvature of the earth. It is not necessary to take the curvature of the earth into consideration in this procedure, as this factor is taken care of in the charts showing signal strengths. The average elevation of the 12.9 kilometer (8 miles) distance between 3.2-16.1 kilometers (2-10 miles) from the antenna site should then be determined from the profile graph for each radial. This may be obtained by averaging a large number of equally spaced points, by using a planimeter, or by obtaining the median elevation (that exceeded for 50% of the distance) in sectors and averaging those values. In directions where the terrain is such that negative antenna heights or heights below 30.5 meters (100 feet) for the 3.2 to 16.1 kilometers (2 to 10 mile) sector are obtained, an assumed height of 30.5 meters (100 feet) shall be used for the prediction of coverage. However, where the actual contour distances are critical factors, a supplemental showing of expected coverage must be included together with a description of the method employed in predicting such coverage. In special cases, the Commission may require additional information as to terrain and coverage.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (5) In the preparation of the profile graph previously described, and in determining the location and height above sea level of the antenna site, the elevation or contour intervals shall be taken from the United States Geological Survey Topographic Quadrangle Maps, United States Army Corps of Engineers' maps or Tennessee Valley Authority maps, whichever is the latest, for all areas for which such maps are available. If such maps are not published for the area in question, the next best topographic information should be used. Topographic data may sometimes be obtained from State and Municipal agencies. Data from Sectional Aeronautical Charts (including bench marks) or railroad depot elevations and highway elevations from road maps may be used where no better information is available. In cases where limited topographic data is available, use may be made of an altimeter in a car driven along roads extending generally radially from the transmitter site. United States Geological Survey Topographic Quadrangle Maps may be obtained from the United States Geological Survey, Department of the Interior, Washington, D.C. 20240. Sectional Aeronautical Charts are available from the United States Coast and Geodetic Survey, Department of Commerce, Washington, D.C. 20235. In lieu of maps, the average terrain elevation may be computer generated, except in the cases of dispute, using elevations from a 30 second point or better topographic data file. The file must be identified and the data processed for intermediate points along each radial using linear interpolation techniques. The height above mean sea level of the antenna site must be obtained manually using appropriate topographic maps.

(c) **ANTENNA SYSTEM.**

- (1) The antenna system shall be designed so that the effective radiated power at any angle above the horizontal shall be as low as the state of the art permits, and in the same vertical plane may not exceed the effective radiated power in either the horizontal direction or below the horizontal, whichever is greater.
- (2) An antenna designed or altered to produce a noncircular radiation pattern in the horizontal plane is considered to be a directional antenna. Antennas purposely installed in such a manner as to result in the mechanical beam tilting of the major vertical radiation lobe are included in this category.
- (3) Applications proposing the use of directional antenna systems must be accompanied by the following:

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (i) Complete description of the proposed antenna system, including the manufacturer and model number of the proposed directional antenna.
- (ii) Relative field horizontal plane pattern (horizontal polarization only) of the proposed directional antenna. A value of 1.0 should be used for the maximum radiation. The plot of the pattern should be oriented so that 0 degrees corresponds to true North. Where mechanical beam tilt is intended, the amount of tilt in degrees of the antenna vertical axis and the orientation of the downward tilt with respect to true North must be specified, and the horizontal plane pattern must reflect the use of mechanical beam tilt.
- (iii) A tabulation of the relative field pattern required in paragraph (c)(3)(ii) of this section. The tabulation should use the same zero degree reference as the plotted pattern, and be tabulated at least every 10 degrees. In addition, tabulated values of all maxima and minima, with their corresponding azimuths, should be submitted.
- (iv) Horizontal and vertical plane radiation patterns showing the effective radiated power, in dBk, for each direction. Sufficient vertical plane patterns must be included to indicate clearly the radiation characteristics of the antenna above and below the horizontal plane. In cases where the angles at which the maximum vertical radiation varies with azimuth, a separate vertical radiation pattern must be provided for each pertinent radial direction.
- (v) All horizontal plane patterns must be plotted to the largest scale possible on unglazed letter-size polar coordinate paper (main engraving approximately 18 cmx25 cm (7 inchesx10 inches)) using only scale divisions and subdivisions of 1, 2, 2.5 or 5 times 10-nth. All vertical plane patterns must be plotted on unglazed letter-size rectangular coordinate paper. Values of field strength on any pattern less than 10 percent of the maximum field strength plotted on that pattern must be shown on an enlarged scale.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (vi) The horizontal and vertical plane patterns that are required are the patterns for the complete directional antenna system. In the case of a composite antenna composed of two or more individual antennas, this means that the patterns for the composite antenna, not the patterns for each of the individual antennas, must be submitted. (Added 97-116, 6/16/97)
- (4) Where simultaneous use of antennas or antenna structures is proposed, the following provisions shall apply: (Added 97-116, 6/16/97)
 - (i) In cases where it is proposed to use a tower of an AM broadcast station as a supporting structure for a DTV broadcast antenna, an appropriate application for changes in the radiating system of the AM broadcast station must be filed by the licensee thereof. A formal application (FCC Form 301, or FCC Form 340 for a noncommercial educational station) will be required if the proposal involves substantial change in the physical height or radiation characteristics of the AM broadcast antennas; otherwise an informal application will be acceptable. (In case of doubt, an informal application (letter) together with complete engineering data should be submitted.) An application may be required for other classes of stations when the tower is to be used in connection with a DTV station. (Added 97-116, 6/16/97)
 - (ii) When the proposed DTV antenna is to be mounted on a tower in the vicinity of an AM station directional antenna system and it appears that the operation of the directional antenna system may be affected, an engineering study must be filed with the DTV application concerning the effect of the DTV antenna on the AM directional radiation pattern. Field measurements of the AM stations may be required prior to and following construction of the DTV station antenna, and readjustments made as necessary. (Added 97-116, 6/16/97)
- (5) Applications proposing the use of electrical beam tilt pursuant to section 73.622(f)(4) must be accompanied by the following:
 - (i) Complete description of the proposed antenna system, including the manufacturer and model number. Vertical plane radiation patterns conforming with paragraphs (c)(3)(iv), (c)(3)(v) and (c)(3)(vi) of this section.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (ii) For at least 36 evenly spaced radials, including 0 degrees corresponding to true North, a determination of the depression angle between the transmitting antenna center of radiation and the radio horizon using the formula in paragraph (b)(2) of this section.
- (iii) For each such radial direction, the ERP at the depression angle, taking into account the effect of the electrical beam tilt, mechanical beam tilt, if used, and directional antenna pattern if a directional antenna is specified.
- (iv) The maximum ERP toward the radio horizon determined by this process must be clearly indicated. In addition, a tabulation of the relative fields representing the effective radiation pattern toward the radio horizon in the 36 radial directions must be submitted. A value of 1.0 should be used for the maximum radiation.

73.635 USE OF COMMON ANTENNA SITE.

No television license or renewal of a television license will be granted to any person who owns, leases, or controls a particular site which is particularly suitable for television broadcasting in a particular area and (a) which is not available for use by other television licensees; and (b) no other comparable site is available in the area; and (c) where the exclusive use of such site by the applicant or licensee would unduly limit the number of television stations that can be authorized in a particular area or would unduly restrict competition among television stations. (Revised 12/21/63)

73.636 [REMOVED]

[Next Page is No. 400.1]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.641 SUBSCRIPTION TV DEFINITIONS.

(a) SUBSCRIPTION ~~TV~~ TELEVISION.

A system whereby subscription television ~~broadcast~~ programs are transmitted and received.

(b) SUBSCRIPTION TELEVISION ~~BROADCASTING~~ PROGRAM.

A television broadcast program intended to be received in intelligible form ~~by members of the public only~~ for a fee or charge.

73.642 SUBSCRIPTION TV SERVICE.

(a) Subscription TV service may be provided by: (Revised 83-485, 12/23/83)

- (1) Licensees and permittees of commercial TV ~~broadcast~~ stations, and*
- (2) Licensees and permittees of low power TV stations. (Revised 83-485, 12/23/83)

(b) A licensee or permittee of a commercial TV ~~broadcast~~ station or of a low power TV station may begin subscription TV service upon installation of encoding equipment having advance FCC approval. However, the licensee or permittee of a TV broadcast station (not applicable to low power TV stations) must send a letter to the FCC in Washington, DC, that subscription TV service ~~has commenced within 10 days following will~~ commence at least 30 days prior to commencement of such service. In that letter, to be entitled "Notice of Commencement of STV Operations," the licensee or permittee is to state that it ~~complies will~~ comply with the provisions of paragraphs (e)(1) ~~through~~ (e)(3) and § 73.644(c) of this chapter and identify the make and type of encoding system ~~being to be~~ used. A similar notice must be submitted if the licensee or permittee commences using another type of encoding system. (See section 644(h).) A notice must also be submitted to the FCC in Washington, DC, if encoded subscription TV service is ~~to be discontinued; at least 30 days prior to such discontinuance.~~

(c) The station proof of system compliance measurement data (see § 73.644(c)) need not be submitted to the FCC, however, the measurement data must be available to the FCC upon request. (Added 83-485, 12/23/83)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(d) The use of the visual vertical blanking interval or an aural subcarrier for transmitting subscriber decoder control code signals during periods of normal non-encoded programming may be used only upon specific FCC authorization. Letter requests to use either the video blanking intervals or aural subcarriers during periods of non-subscription programming are to be sent to the FCC in Washington, DC. (Added 83-485, 12/23/83)

(e) A licensee or permittee of a commercial TV broadcast or low power TV station may not transmit a subscription service if it has a contract, arrangement, or understanding, expressed or implied, that: (Added 83-485, 12/23/83)

- (1) Prevents or hinders it from rejecting or refusing any subscription TV broadcast program that it reasonably believes to be unsatisfactory or unsuitable or contrary to the public interests; or substituting a subscription or conventional program that, in its opinion, is of greater local or national importance; or (Added 83-485, 12/23/83)
- * (2) Delegates to any other person the right to schedule the hours of transmission of subscription programs. However, this rule does not prevent a licensee or permittee from entering into an agreement or arrangement whereby it agrees to schedule a specific subscription TV broadcast program at a specific time or to schedule a specific number of hours of subscription programs during the broadcast day (or segments thereof) or weeks; or
- (3) Deprives it of the right of ultimate decision concerning the maximum amount of any subscription program charge or fee. (Added 83-485, 12/23/83)
- (4) Has provisions that do not comply with the following policies of the FCC: (Added 83-485, 12/23/83)
 - (i) Unless a satisfactory signal is unavailable at the location where service is desired, subscription TV service must be provided to all persons desiring it within the Grade A contour of the station broadcasting subscription programs. Geographic or other reasonable patterns of installation for new subscription services is permitted and, for good cause, service may be terminated. (Added 83-485, 12/23/83)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (ii) Charges, terms and conditions of service to subscribers must be applied uniformly. However, subscribers may be divided into reasonable classifications approved by the FCC, and the impositions of different sets of terms and conditions may be applied to subscribers in different classifications. Further, for good cause, within such classification, deposits may be required from such subscribers and not of others; and, also for good cause, if a subscription system generally uses a credit-type decoder, cash operated decoders may be installed for some subscribers.*

73.643 SUBSCRIPTION TV OPERATING REQUIREMENTS.*

The non-technical rules and policies applicable to regular TV broadcast stations are applicable to subscription TV operations, except where specifically exempted in the provisions of those rules and policies.*

73.644 SUBSCRIPTION TV TRANSMISSION SYSTEMS.*

(a) Licensees and permittees of commercial TV broadcast and low power TV stations may conduct subscription operations only by using an encoding system that has been approved in advance by the FCC. Such advance approval may be applied for and granted in accordance with the procedures given in Subpart M Part 2 of the Rules.*

(b) The criteria for advance approval of subscription TV transmitting systems by the FCC are as follows:*

- (1) Spectral energy in the transmitted signal must not exceed the limitations given in § 73.687(c)(i).
- (2) No increase in width of the television broadcast channel (6 MHz) is permitted.*
- (3) The technical system must enable stations to transmit encoded subscription TV programs without increasing the RMS output power from either the video or audio transmitters over that required to transmit the same program material using normal transmission standards.*
- (4) Modification of a type accepted TV broadcast or low power TV transmitter for encoded transmissions must not render transmitter incapable of operating in accordance with the operating specifications upon which type acceptance was granted. (See § 2.1001(b), (k)).*

*(Revised 83-485, 12/23/83)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (5) Interference to reception of conventional television either of co-channel or adjacent channel stations must not increase over that resulting from the transmission of programming with normal transmission standards.*
- (6) Subscriber decoder devices must meet the provisions, where required, of Subpart H of Part 15 of the FCC Rules for TV Interface Devices.*

(c) Prior to commencing the transmission of encoded subscription programming, the licensee or permittee of a TV broadcast or low power TV station must perform such tests and measurements to determine that the transmitted encoded signal conforms to the radiated radio frequency and demodulated baseband and waveforms, transmitter operating power determination, and the occupied bandwidth limitations specified in the application for advance FCC approval of the system being used. A copy of the measurement data is to be maintained in the station files and made available to the FCC upon request.*

(d) The licensee of a station transmitting an encoded subscription service must have at the transmitter control point the technical specifications for the system being used of both the aural and visual baseband signals and the transmitted radiofrequency signals, and have the necessary measuring and monitoring equipment including transmitter output power measuring equipment, to determine that the transmissions conform to the advance approval specifications on file with the FCC. Full operating specifications for the system must be available to representatives of the FCC upon request.*

(e) The operating power of the transmitters during encoded operations must be determined and maintained according to the procedures given in the application for advance approval.*

(f) A station using an encoding system in accordance with the specifications filed with the application for advance approval is deemed to be exempted from those technical regulations of this Subpart and Subpart H to the extent they are specifically detailed in the application.*

(g) No protection from interference of any kind will be afforded to reception of encoded subscription programming over that afforded reception of non-encoded signals.*

*(Revised 83-485, 12/23/83)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(h) A licensee or permittee may make no modifications on a subscription encoding system that would alter the characteristics of the transmitted aural or visual signal from those specified in the application for advance approval. A licensee or permittee of a station replacing its encoding system must perform the measurements required by paragraph (c) of this section. A TV broadcast station licensee or permittee must also send a letter advising the FCC of the new system being used as required by § 73.642(b) of this chapter. (Added 83-485, 12/23/83)

(i) The station licensee is fully responsible for all technical operations of the station during transmissions of encoded subscription programming, regardless of the supplier of the encoding equipment or subscription program service. (Added 84-435, 12/23/83)

NOTE: Stations transmitting encoded subscription programming prior to October 1, 1983, must comply with all technical and operating requirements of this Section no later than April 1, 1984. Stations not having the information to comply with this Section must obtain such information from the manufacturer of the encoding system being used, and if necessary, by measurements of the station's transmission system. (Added 84-435, 12/23/83)

(j) Upon request by an authorized representative of the FCC, the licensee of a TV station transmitting encoded programming must make available a receiving decoder to the Commission to carry out its regulatory responsibilities. (Added 84-435, 12/23/83)

EDITOR'S NOTE: Section 73.646 has been so completely revised by Amendment No. 84-530 that the previous wording is not shown.

**73.646 TELECOMMUNICATIONS SERVICE ON THE VERTICAL
BLANKING INTERVAL AND IN THE VISUAL
SIGNAL.**

(a) Telecommunications services permitted on the vertical blanking interval (VBI) and in the visual signal ~~service~~ include the transmission of data, processed information, or any other communication in either a digital or analog mode.

(b) Telecommunications service on the VBI and in the visual signal is of an ancillary nature and as such is an elective, subsidiary activity. No service guidelines, limitations, or performance standards are applied to it. The kinds of service that may be provided include, but are not limited to, teletext, paging, computer software and bulk data distribution, and aural messages. Such services may be provided on a broadcast, point-to-point, or point to multipoint basis.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(c) Telecommunications services that are common carrier in nature are subject to common carrier regulation. Licensees operating such services are required to apply to the Commission for the appropriate authorization and to comply with all policies and rules applicable to the particular service. (Added 84-530, 3/4/85)

(d) Television licensees are authorized to lease their VBI and visual signal telecommunications facilities to outside parties. In all arrangements entered into with outside parties affecting telecommunications service operation, the licensee or permittee must retain control over all material transmitted in a broadcast mode via the station's facilities, with the right to reject any material that it deems inappropriate or undesirable. The licensee or permittee is also responsible for all aspects of technical operation involving such VBI telecommunications services.

(e) The grant or renewal of a TV station license or permit will not be furthered or promoted by proposed or past VBI or visual signal telecommunications service operation; the licensee must establish that its broadcast operation serves the public interest wholly apart from such VBI telecommunications service activities. (Violation of rules applicable to VBI and visual signal telecommunications services could, of course, reflect on a licensee's qualifications to hold its license or permit.)

(f) TV broadcast stations are authorized to transmit VBI and visual telecommunications service signals during any time period, including portions of the day when normal programming is not broadcast. Such transmissions must be in accordance with the technical provisions of § 73.682.

[Next Page is No. 401]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

**73.653 OPERATION OF TV AURAL AND VISUAL
TRANSMITTERS.**

EDITOR'S NOTE: Section 73.653 has been so completely revised as of April 13, 1989, that the previous wording is not shown.

The aural and visual transmitters may be operated independently of each other or, if operated simultaneously, may be used with different and unrelated program material.

[Next Page is No. 407]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.658 AFFILIATION AGREEMENTS AND NETWORK PROGRAM PRACTICES; TERRITORIAL EXCLUSIVITY IN NON-NETWORK PROGRAM ARRANGEMENTS.

(a) EXCLUSIVE AFFILIATION OF STATION.

No license shall be granted to a television broadcast station having any contract, arrangement, or understanding, express or implied, with a network organization under which the station is prevented or hindered from, or penalized for, broadcasting the programs of any other network organization. (The term "network organization" as used in this section includes national and regional network organizations. See ch. VII, J, of Report on Chain Broadcasting.)

(b) TERRITORIAL EXCLUSIVITY.

*No license shall be granted to a television broadcast station having any contract, arrangement, or understanding, express or implied with a network organization which prevents or hinders another broadcast station located in the same community from broadcasting the network's programs not taken by the former station, or which prevents or hinders another broadcast station located in a different community from broadcasting any program of the network organization. This section shall not be construed to prohibit any contract, arrangement, or understanding between a station and a network organization pursuant to which the station is granted the first call in its community upon the programs of the network organization. As employed in this paragraph, the term "community" is defined as the community specified in the instrument of authorization as the location of the station.

(c) [RESERVED] [89-89, 5/15/89]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(d) STATION COMMITMENT OF BROADCAST TIME.

No license shall be granted to a television broadcast station having any contract, arrangement, or understanding, express or implied, with any network organization, which provides for optioning of the station's time to the network organization, or which has the same restraining effect as time optioning. As used in this section, time optioning is any contract, arrangement, or understanding, express or implied, between a station and a network organization which prevents or hinders the station from scheduling programs before the network agrees to utilize the time during which such programs are scheduled, or which requires the station to clear time already scheduled when the network organization seeks to utilize the time.*

(e) RIGHT TO REJECT PROGRAMS.

No license shall be granted to a television broadcast station having any contract, arrangement, or understanding, express or implied, with a network organization which, with respect to programs offered or already contracted for pursuant to an affiliation contract, prevents or hinders the station from (1) rejecting or refusing network programs which the station reasonably believes to be unsatisfactory or unsuitable or contrary to the public interest, or (2) substituting a program which, in the station's opinion, is of greater local or national importance.*

(f) ~~NETWORK OWNERSHIP OF STATION~~ RESERVED

~~No license shall be granted to a network organization, or to any person directly or indirectly controlled by or under common control of a network organization for a television broadcast station in any locality where the existing television broadcast stations are so few or of such unequal desirability (in terms of coverage, power, frequency, or other related matters) that competition would be substantially restrained by such licensing. (The word "control" as used in this section, is not limited to full control but includes such a measure of control as would substantially affect the availability of the station to other networks.)~~

[Next Page is No. 408.1]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(g) DUAL NETWORK OPERATION.

A television broadcast station may affiliate with a person or entity that maintains two or more networks of television broadcast stations *unless* such dual or multiple networks are composed of:

- (1) Two or more persons or entities that, on February 8, 1996, were "networks." For the purposes of this paragraph, the term network means any person, entity, or corporation which offers an interconnected program service on a regular basis for 15 or more hours per week to at least 25 affiliated television licensees in 10 or more states; and/or any person, entity, or corporation controlling, controlled by, or under common control with such person, entity, or corporation; or
- (2) Any network described in paragraph (g)(1) of this section and an English-language program distribution service that, on February 8, 1996, provided four or more hours of programming per week on a national basis pursuant to network affiliation arrangements with local television broadcast stations in markets reaching more than 75 percent of television homes (as measured by a national ratings service).

(h) CONTROL BY NETWORKS OF STATION RATES.

No license shall be granted to a television broadcast station having any contract, arrangement, or understanding, express or implied, with a network organization under which the station is prevented or hindered from, or penalized for, fixing or altering its rates for the sale of broadcast time for other than the network's programs.

(i) No license shall be granted to a television broadcast station which is represented for the sale of non-network time by a network organization or by an organization directly or indirectly controlled by or under common control with a network organization, if the station has any contract, arrangement or understanding, express or implied, which provides for the affiliation of the station with such network organization: Provided, however, That this rule shall not be applicable to stations licensed to a network organization or to a subsidiary of a network organization.

(j) [RESERVED] (91-114, 7/8/91)

(k) [REMOVED AND RESERVED] (8/30/96, 95-314)

[Next Page is No. 409]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(l) [RESERVED] (95-97, 4/26/95)

(m) **TERRITORIAL EXCLUSIVITY IN NON-NETWORK ARRANGEMENTS.**

- (1) No television station shall enter into any contract, arrangement, or understanding, expressed or implied; with a non-network program producer, distributor, or supplier, or other person; which prevents or hinders another television station located in a community over 56.3 kilometers (35 miles) away, as determined by the reference points contained in § 76.53 of this chapter, (if reference points for a community are not listed in § 76.53, the location of the main post office will be used) from broadcasting any program purchased by the former station from such non-network program producer, distributor, supplier, or other person, except that a television station may secure exclusivity against a television station licensed to another designated community in a hyphenated market specified in the market listing as contained in § 76.51 of this chapter for those 100 markets listed, and for markets not listed in § 76.51 of this chapter, the listing as contained in the ARB Television Market Analysis for the most recent year at the time that the exclusivity contract, arrangement or understanding is complete under practices of the industry. As used in this paragraph, the term "community" is defined as the community specified in the instrument of authorization as the location of the station.

[Next Page is No. 410.3]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

~~NOTE 4: For thirty-six (36) months after an entity becomes a network station owned by or affiliated with that network are exempt from compliance with the requirements of this paragraph with respect to programming already under contract at the time the entity became a network. (Added 91-114, 7/8/91)~~

(l) [RESERVED] (95-97, 4/26/95)

(m) **TERRITORIAL EXCLUSIVITY IN NON-NETWORK ARRANGEMENTS.**

- (1) No television station shall enter into any contract, arrangement, or understanding, expressed or implied; with a non-network program producer, distributor, or supplier, or other person; which prevents or hinders another television station located in a community over 56.3 kilometers (35 miles) away, as determined by the reference points contained in § 76.53 of this chapter, (if reference points for a community are not listed in § 76.53, the location of the main post office will be used) from broadcasting any program purchased by the former station from such non-network program producer, distributor, supplier, or other person, except that a television station may secure exclusivity against a television station licensed to another designated community in a hyphenated market specified in the market listing as contained in § 76.51 of this chapter for those 100 markets listed, and for markets not listed in § 76.51 of this chapter, the listing as contained in the ARB Television Market Analysis for the most recent year at the time that the exclusivity contract, arrangement or understanding is complete under practices of the industry. As used in this paragraph, the term "community" is defined as the community specified in the instrument of authorization as the location of the station.

[Next Page is No. 410.3]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

~~(viii) "EVENING PROGRAMMING"~~

~~means programming (regular programs or "specials") starting and concluding on a network between the hours of 7:30 p.m. and 11 p.m. local time (except 6:30 p.m. and 10 p.m. in the Central time zone), plus all programs other than regular newscasts starting on the network between 7 and 7:30 p.m. local time (6 and 6:30 p.m. local time in the Central time zone). It does not include portions broadcast after 7 p.m. of programs starting earlier, or portions broadcast after 11 p.m. of programs starting earlier. (Added 71-322, 6/30/71)~~

~~(ix) "SPECIALS"~~

~~means programs not carried on the network at least as often as once a week. It includes both programs scheduled well in advance and those scheduled very shortly before broadcast on the network. (Added 71-322, 6/30/71)~~

~~(x) "REASONABLY COMPARABLE FACILITIES"~~

~~means station transmitting facilities (effective radiated power and effective antenna height above average terrain) such that the station's Grade B coverage area is at least two-thirds as large (in square miles kilometers) as the smallest of the market-affiliated stations' Grade B coverage areas. Where one or both of the affiliates is licensed to a city different from that of the unaffiliated station, the term "reasonably comparable facilities" also includes the requirement that the unaffiliated station must put a predicted Grade A or better signal over all of the city of license of the other regular (nonsatellite) stations(s), except that where one of the affiliated stations is licensed to the same city as the unaffiliated station, and puts a Grade B but not a Grade A signal over the other city of license, the unaffiliated station will be considered as having reasonably comparable facilities if it too puts a predicted Grade B signal over all of the other city of license.~~

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

~~(2) — TAKING PROGRAMS FROM UNAFFILIATED NETWORKS.~~

~~No affiliated station, in a market covered by this paragraph, shall take and broadcast from an unaffiliated network, any programming of the times and types specified in this subparagraph, unless the conditions specified have first been met: (Added 71-322, 6/30/71)~~

- ~~(i) — Any evening programming (as defined in this paragraph), unless and until the entire schedule of such programs has been offered by the unaffiliated network to the unaffiliated station as provided in paragraph (1)(4) of this section, and the unaffiliated station has either accepted 15 hours per week of such programs, plus additional "special" hours when part of the "special" is included in the 15 hours, or has accepted a lesser amount and indicated that it does not wish to carry any more. Such acceptance shall be governed by the provisions of paragraph (1)(4) of this section. (Added 71-322, 6/30/71)~~
- ~~(ii) — Any programming beginning on the network between 12 noon and 7 p.m. on Saturdays, Sundays, and holidays, and consisting of sports events (including, without limitation, college football and basketball, professional football, baseball, ice hockey, golf, tennis, horseracing and auto racing), unless and until the program has first been offered to the unaffiliated station and that station has indicated that it does not wish to accept it. (Added 71-322, 6/30/71)~~
- ~~(iii) — Any programming broadcast after 11 p.m. local time (except 10 p.m. local time in the central time zone) which is a continuation of programs starting earlier and carried by the unaffiliated station; or any material broadcast after 7 p.m. (6 p.m. in the Central time zone) which is a continuation of sports programs beginning earlier and carried by the unaffiliated station. (Added 71-322, 6/30/71)~~
- ~~(iv) — Any program presented in the same week by the unaffiliated station. (Added 71-322, 6/30/71)~~

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

~~(3) CARRIAGE OF PROGRAMS OF A NETWORK WHICH HAS AN AFFILIATE.~~

~~No affiliated station in a market covered by this paragraph shall broadcast, from another network which has an affiliated station in the market, any evening programming or Saturday, Sunday, or holiday sports programming, unless such programming has first been offered to the unaffiliated station in the market and the latter has indicated that it does not wish to carry it. (Added 71-322, 6/30/71)~~

~~(4) OFFER AND ACCEPTANCE (Added 71-322, 6/30/71)~~

~~(i) The "offer" by a network referred to in this paragraph means an offer to the unaffiliated station of the programs for broadcast. Programs so offered cannot be withdrawn by the network until the following April 1 or October 1, unless the station does not in fact broadcast the program as accepted, in which case the provisions of paragraph (1)(4)(ii) of this section shall apply, or unless the program is canceled on the network, in which case the replacement or substitute program shall be offered to the station as a new program under paragraphs (1), (2) or (3) of this section. If a program accepted by the unaffiliated station is shifted in time, the station may exercise its right of "first call" either with respect to the program at its new time, or the previous time segment, at its option. (Added 71-322, 6/30/71)~~

~~(ii) The acceptance referred to in paragraphs (1), (2) and (3) of this section means that the unaffiliated station agrees to broadcast the program accepted, at its live network time or a delayed time acceptable to the network, unless in its judgment the program is not in the public interest or it wishes to substitute a local, or other live, program for it. The provision of paragraph (a) of this section, prohibiting agreements which hinder the presentation of the programs of other networks, shall not apply to material covered by this paragraph. If a program is not presented in a particular week live or at a delayed time acceptable to the network, the network may place this particular broadcast of the program on another station; and if this occurs more than 4 times in any 13-week period the network may withdraw the program from the station without obligation to offer it any additional programming. The unaffiliated station is free to seek and obtain other terms of acceptance from the network; but the offer of programming by the network on the foregoing terms satisfies its obligations under this paragraph. (Added 71-322, June 30, 1971)~~

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

~~(iii) The offer by the network shall, to the extent possible, be up to and including August 2, 1971 with respect to programs beginning in the fall season, and by January 15 with respect to programs presented after April 1, or otherwise as soon as possible. The unaffiliated station's acceptance or indication of nonacceptance shall be within 2 weeks after the date of the offer; where any negotiations between the network and the station concerning particular programs are involved, programs not accepted within 30 days of the date of the offer shall be deemed not accepted. (Revised 71-776, 9/14/71)~~

~~NOTE 1: If there are in a particular market two affiliated stations and two (or more) operational unaffiliated stations with reasonably comparable facilities, the provisions of this paragraph (i) shall require an offer of programming to each; but the 15-hour-per-week "first call" provision applies to the total programming taken by all such stations. (Added 71-322, 6/30/71)~~

~~NOTE 2: The provisions of this paragraph (i) do not apply to a market in which there are two VHF affiliated U.S. stations, and a foreign VHF station to which a national U.S. television network transmits programs pursuant to authority granted under section 325 of the Communications Act of 1934, as amended, and which serves as that network's primary affiliate in the market. (Added 71-322, 6/30/71)~~

(m) **TERRITORIAL EXCLUSIVITY IN NON-NETWORK ARRANGEMENTS.**

(1) No television station shall enter into any contract, arrangement, or understanding, expressed or implied; with a non-network program producer, distributor, or supplier, or other person; which prevents or hinders another television station located in a community over 56.3 kilometers (35 miles) away, as determined by the reference points contained in § 76.53 of this chapter, (if reference points for a community are not listed in § 76.53, the location of the main post office will be used) from broadcasting any program purchased by the former station from such non-network program producer, distributor, supplier, or other person, except that a television station may secure exclusivity against a television station licensed to another designated community in a hyphenated market specified in the market listing as contained in § 76.51 of this chapter for those 100 markets listed, and for markets not listed in § 76.51 of this chapter, the listing as contained in the ARB Television Market Analysis for the most recent year at the time that the exclusivity contract, arrangement or understanding is complete under practices of the industry. As used in this paragraph, the term "community" is defined as the community specified in the instrument of authorization as the location of the station.

[Next Page is No. 410.3]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (2) Notwithstanding paragraph (m)(1) of this section, a television station may enter into a contract, arrangement, or understanding with a producer, supplier, or distributor of a non-network program if that contract, arrangement, or understanding provides that the broadcast station has exclusive national rights such that no other television station in the United States may broadcast the program.

NOTE 1: Contracts, arrangements, or understandings that are complete under the practices of the industry prior to August 7, 1973, will not be disturbed. Extensions or renewals of such agreements are not permitted because they would in effect be new agreements without competitive bidding. However, such agreements that were based on the broadcaster's advancing "seed money" for the production of a specific program or series that specify two time periods - a tryout period and period thereafter for general exhibition - may be extended or renewed as contemplated in the basic agreement.

NOTE 2: It is intended that the top 100 major television markets listed in § 76.51 of this chapter shall be used for the purposes of this rule and that the listing of the top 100 television markets appearing in the ARB Television Market Analysis shall not be used. The reference in this rule to the listing of markets in the ARB Television Market Analysis refers to hyphenated markets below the top-100 markets contained in the ARB Television Market Analysis. If a community is listed in a hyphenated market in § 76.51 and is also listed in one of the markets in the ARB listing, the listing in § 76.51 shall govern. (Edit. Amdt. 10/1/85)

NOTE 3: The provisions of this paragraph apply only to U.S. commercial television broadcast stations in the 50 states, and not to stations in Puerto Rico or the Virgin Islands, foreign stations or noncommercial educational television or "public" television stations (either by way of restrictions on their exclusivity or on exclusivity against them). (Edit. Amdt. 10/1/85)

NOTE 4: New stations authorized in any community of a hyphenated market listed in § 76.51 of this chapter or in any community of a hyphenated market listed in the ARB Television Market Analysis (for markets below the top-100 markets) are subject to the same rules as previously existing stations therein. New stations authorized in other communities are considered stations in separate markets unless and until § 76.51 is amended by Commission action, or the ARB listing is changed. (Edit. Amdt. 10/1/85)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.659 ~~[REMOVED AND RESERVED]
TELEVISION NETWORK FINANCIAL INTERESTS AND
SYNDICATION RIGHTS IN FIRST-RUN PROGRAMS.~~

~~No television network, other than an "emerging network" defined in § 73.662(g), may hold or acquire continuing financial interests or syndication rights in any first-run non-network program or series distributed in the United States unless the network has solely produced that program or series. (Added 93-179, 6/5/93)~~

73.660 ~~[REMOVED AND RESERVED]
TELEVISION NETWORK PARTICIPATION IN
PROGRAM SYNDICATION.~~

~~(a) No television network, other than an "emerging network" as defined in § 73.662(g), may actively syndicate any prime time entertainment or first-run non-network program to television stations within the United States. Any such programs for which a network holds syndication rights shall be syndicated domestically through an independent syndicator. (Revised 93-458; 12/29/93)~~

~~(b) Where a television network, other than an "emerging network" as defined in § 73.622(g), has syndication rights in prime time entertainment programming, such programming shall be made available for non-network broadcast exhibition within the United States no later than the earlier of: (Revised 6/5/93, 93-179)~~

- ~~(1) The end of the fourth year after network exhibition of such a series has commenced, or the subsequent anniversary of that date as to all programs in that series aired after the fourth year, or (Added 91-114; 7/8/91)~~
- ~~(2) One hundred eighty (180) days after network exhibition of such a series or program is completed. (Added 91-114; 7/8/91)~~

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.661

~~[REMOVED AND RESERVED]~~

~~NETWORK TELEVISION PROGRAM OWNERSHIP AND
SYNDICATION REPORTS.~~

~~(a) A television network shall maintain reports identifying all network prime time entertainment programs, whether aired on its own or another network, and all first run non-network programs in which the network holds or acquires financial interests or syndication rights. The network shall identify the name of the program, the type of program (network or first-run), the nature of the interest or right held in the program, the dates the program (if a network program) began and ended its network run, and the date the program (if a first run program) first appeared in syndication. Where a network has, before June 5, 1993, but not on or before August 1, 1972, acquired an interest or right in a program presented to the public, the network shall identify the party that initiated negotiations that led to network acquisition of such interest or right. Any contract or agreement creating or conveying a financial interest or syndication right shall be made available to the Commission upon request. (Revised 93-458;12/29/93)~~

~~(b) For any television network that activity syndicates any prime time entertainment program or any first run non-network program, the network shall maintain reports that list the sales to broadcast stations of any such programming it actively syndicates; provided, however, that with respect to sales of programs to broadcast stations outside the United States, the network may either redact the identity of such stations (if contracts are provided as part of the reports) or report the market (city and country) to which a specific program is syndicated rather than the identity of the station. Any contract or agreement creating or conveying the right to engage activity in syndication sales shall be made available to the Commission upon request. (Revised 93-458;12/29/93)~~

~~(c) For the programs described under paragraph (a) of this section, a television network shall maintain reports that identify the independent syndicator who holds the active syndication rights, the date on which the independent syndicator obtained such rights, and the network's owned and operated and affiliated stations that have obtained the program for exhibition from the independent syndicator. Any contract or agreement entered into between a network and an independent syndicator creating or conveying the right to engage in syndication shall be made available to the Commission upon request. (OMB approval Pending, 93-179)~~

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

~~(d) Each television network shall certify in writing that it is in compliance with § 73.659 through 73.661. (OMB approval Pending 93-179)~~

~~(e) An "emerging network" as defined in § 73.662(g), is exempt from compliance with the requirements of paragraphs (a) through (d) of this section until it provides to interconnected affiliates, on a regular basis, 16 hours of prime time programming per week (exclusive of live coverage of bona fide news events of national importance). (OMB approval Pending 93-179)~~

~~(f) The records maintained pursuant to paragraphs (a), (b), (c), and (d) of this section shall be filed with the Commission and placed in the public file of each station owned and operated by the network semi-annually before the first regular business day of September and March of each year. Such records shall be maintained in the public file until the remaining syndication rules expire. (OMB approval Pending 93-179)~~

**173.662 DEFINITIONS FOR TELEVISION NETWORK
FINANCIAL INTEREST, SYNDICATION, AND PRIME
TIME ACCESS RULES.**

For purposes of §§ 73.658(k), ~~73.659, 73.660, and 73.661.~~

- (a) A "continuing financial interest" is a right to receive revenue from the non-network broadcast or syndicated use of a television program by a network. (Added 91-114, 7/8/91)
- (b) "Entertainment programs" include series, made-for-television movies, mini-series, and entertainment specials, and do not include sports, public affairs, or news programs. (Revised 94-179, 6/5/93)
- (c) An "independent syndicator" is one not owned or controlled, in full or in part, by a television network. (Revised 84-179, 6/5/93)
- (d) A "prime time" program is one that has network exhibition during the hours of 7-11 p.m. eastern and pacific time or 6-10 p.m. central and mountain time. (Revised 94-179, 6/5/93)
- (e) A program "solely produced by a network" is a program in which the network, directly or through a production entity it owns or controls, is the sole copyright owner, has full financial responsibility, and full business and production control. (Revised 94-179, 6/5/93)

¹Effective August 30, 1996, This section will be [Removed and Reserved]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (f) A **"television network"** is any person, entity, or corporation providing on a regular basis more than fifteen (15) hours of prime time programming per week (exclusive of live coverage of bona fide news events of national importance) to interconnected affiliates that reach, in aggregate, at least seventy-five (75) percent of television households nationwide; and/or any person, entity, or corporation controlling, controlled by, or under common control with such person, entity, or corporation. Not included within this definition is any television network formed for the purpose of producing, distributing, or syndicating program material for educational, noncommercial, or public broadcasting exhibition, or for non-English language exhibition, or that predominately distributes programming involving the direct sale of products or services. (Revised 93-179, 6/5/93)

NOTE: "National audience reach" for purposes of this definition is the total number of United States television households in the Arbitron Area of Dominant Influence (ADI) markets in which the stations or regular television station affiliates of the network are located, divided by the total national television households as measured by the most current ADI data publicly available at the start of each television season. "Regular basis" means providing, on average for the prior six months, more than the specified number of hours of programming per week.*

- (g) An **emerging network** is an entity not meeting the definition of a "television network," as set forth in paragraph (f) of this section, on June 5, 1993, but which subsequently meets this definition. (Added 93-179, 6/5/93)

(*Added 91-114, 7/8/91)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.663 EXPIRATION OF THE FINANCIAL INTEREST AND SYNDICATION RULES.

The Commission shall initiate a proceeding to review network activities in the financial interest and syndication areas no later than eighteen months after the entry of an Order by the United States District Court, Central District of California ("District Court") in Civ. Nos. 74-3599-R, 74-3600-R and 74-3601-R, lifting restrictions of the consent decrees administered therein that overlap the restrictions of 47 CFR 73.659, 73.660 and 73.661. In the Commission's review proceeding, the Commission shall presume that expiration of said Sections is warranted, and the burden of proof shall be placed on those who oppose the expiration. Unless the Commission takes affirmative action to the contrary, said Sections shall expire two years after the entry of the aforementioned Order by the District Court.

Note: The Commission shall publish a document in the **Federal Register** announcing the expiration of said Sections.

73.664 DETERMINING OPERATING POWER.

(a) The operating power of each TV visual transmitter shall normally be determined by the direct method.

(b) DIRECT METHOD, VISUAL TRANSMITTER.

The direct method of power determination for a TV visual transmitter uses the indications of a calibrated transmission line meter (responsive to peak power) located at the RF output terminals of the transmitter. The indications of the calibrated meter are used to observe and maintain the authorized operating power of the visual transmitter. This meter must be calibrated whenever any component in the metering circuit is repaired or replaced and as often as necessary to ensure operation in accordance with the provisions of § 73.1560 of this part. The following calibration procedures are to be used.

- (1) The transmission line meter is calibrated by measuring the average power at the output terminals of the transmitter, including any vestigial sideband and harmonic filters which may be used in normal operation. For this determination the average power output is measured while operating into a dummy load of substantially zero reactance and a resistance equal to the transmission line characteristic impedance. During this measurement the transmitter is to be modulated only by a standard synchronizing signal with blanking level set at 75% of peak amplitude as observed in an output waveform monitor, and with this blanking level amplitude maintained throughout the time interval between synchronizing pulses.

[Next Page is No. 411]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(b) DIRECT METHOD, VISUAL TRANSMITTER.

The direct method of power determination for a TV visual transmitter uses the indications of a calibrated transmission line meter (responsive to peak power) located at the RF output terminals of the transmitter. The indications of the calibrated meter are used to observe and maintain the authorized operating power of the visual transmitter. This meter must be calibrated whenever any component in the metering circuit is repaired or replaced and as often as necessary to ensure operation in accordance with the provisions of § 73.1560 of this part. The following calibration procedures are to be used. (Revised 83-338, 9/19/83)

- (1) The transmission line meter is calibrated by measuring the average power at the output terminals of the transmitter, including any vestigial sideband and harmonic filters which may be used in normal operation. For this determination the average power output is measured while operating into a dummy load of substantially zero reactance and a resistance equal to the transmission line characteristic impedance. During this measurement the transmitter is to be modulated only by a standard synchronizing signal with blanking level set at 75% of peak amplitude as observed in an output waveform monitor, and with this blanking level amplitude maintained throughout the time interval between synchronizing pulses. (Added 79-609, 10/22/79)
- (2) If electrical devices are used to determine the output power, such devices must permit determination of this power to within an accuracy of $\pm 5\%$ of the power indicated by the full scale reading of the electrical indicating instrument of the device. If temperature and coolant flow indicating devices are used to determine the power output, such devices must permit determination of this power to within an accuracy of $\pm 4\%$ of measured average power output. The peak power output is the power so measured in the dummy load multiplied by the factor 1.68. During this measurement the input voltage and current to the final radio frequency amplified stage and the transmission line meter are to be read and compared with similar readings taken with the dummy load replaced by the antenna. These readings must be in substantial agreement. (Added 79-609, 10/22/79)

[Next Page is No. 411]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (2) If electrical devices are used to determine the output power, such devices must permit determination of this power to within an accuracy of $\pm 5\%$ of the power indicated by the full scale reading of the electrical indicating instrument of the device. If temperature and coolant flow indicating devices are used to determine the power output, such devices must permit determination of this power to within an accuracy of $\pm 4\%$ of measured average power output. The peak power output is the power so measured in the dummy load multiplied by the factor 1.68. During this measurement the input voltage and current to the final radio frequency amplified stage and the transmission line meter are to be read and compared with similar readings taken with the dummy load replaced by the antenna. These readings must be in substantial agreement.

- (3) The meter must be calibrated with the transmitter operating at 80%, 100%, and 110% of the authorized power as often as may be necessary to maintain its accuracy and ensure correct transmitter operating power. In cases where the transmitter is incapable of operating at 110% of the authorized power output, the calibration may be made at a power output between 100% and 110% of the authorized power output. However, where this is done, the output meter must be marked at the point of calibration of maximum power output, and the station will be deemed to be in violation of this rule if that power is exceeded. The upper and lower limits of permissible power deviation as determined by the prescribed calibration, must be shown upon the meter either by means of adjustable red markers incorporated in the meter or by red marks placed upon the meter scale or glass face. These markings must be checked and changed, if necessary, each time the meter is calibrated.

(c) **INDIRECT METHOD, VISUAL TRANSMITTER.**

The operating power is determined by the indirect method by applying an appropriate factor to the input power to the final radio-frequency amplifier stage of the transmitter using the following formula:

$$\text{Transmitter output power} = E_p \times I_p \times T3F$$

Where:

E_p = DC input voltage of the final radio-frequency amplifier stage.

I_p = DC input current of the final radio-frequency amplifier stage.

F = Efficiency factor.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (1) If the above formula is not appropriate for the design of the transmitter final amplifier, use a formula specified by the transmitter manufacturer with other appropriate operating parameters.
- (2) The value of the efficiency factor, F established for the authorized transmitter output power is to be used for maintaining the operating power, even though there may be some variation in F over the power operating range of the transmitter.
- (3) The value of F is to be determined and a record kept thereof by one of the following procedures listed in order of preference:
 - (i) Using the most recent measurement data for calibration of the transmission line meter according to the procedures described in paragraph (b) of this section or the most recent measurements made by the licensee establishing the value of F . In the case of composite transmitters or those in which the final amplifier stages have been modified pursuant to FCC approval, the licensee must furnish the FCC and also retain with the station records the measurement data used as a basis for determining the value of F .
 - (ii) Using measurement data shown on the transmitter manufacturer's test data supplied to the licensee, provided that measurements were made at the authorized carrier frequency and transmitter output power.
 - (iii) Using the transmitter manufacturer's measurement data submitted to the FCC for type acceptance as shown in the instruction book supplied to the licensee.

NOTE: Refer to § 73.1560 for aural transmitter output power levels.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.665 USE OF TV AURAL BASEBAND SUBCARRIERS.

Licenses of TV broadcast stations may transmit, without further authorization from the FCC, subcarriers and signals within the composite baseband for the following purposes: (Added 84-116, 3/29/84)

- (a) Stereophonic (biphonic, quadraphonic, etc.) sound programs under the provisions of §§ 73.667 and 73.669. (Added 84-116, 3/29/84)
- (b) Transmission of signals relating to the operation of TV stations, such as relaying broadcast materials to other stations, remote cueing and order messages, and control and telemetry signals for the transmitting system. (Added 84-116, 3/29/84)
- (c) Transmission of pilot or control signals to enhance the station's program service such as (but not restricted to) activation of noise reduction decoders in receivers, for any other receiver control purpose, or for program alerting and program identification. (Added 84-116, 3/29/84)
- (d) Subsidiary communications services. (Added 84-116, 3/29/84)

73.667 TV SUBSIDIARY COMMUNICATIONS SERVICES.

(a) Subsidiary communications services are those transmitted within the TV aural baseband signal, but do not include services which enhance the main program broadcast service or exclusively relate to station operations (see §§ 73.665(a), (b), and (c)). Subsidiary communications include, but are not limited to, services such as functional music, specialized foreign language programs, radio reading services, utility load management, market and financial data and news, paging and calling, traffic control signal switching, and point-to-point ~~of~~ multipoint messages.

(b) TV subsidiary communications services that are common carrier or private radio in nature are subject to common carrier or private radio regulation. Licensees operating such services are required to apply to the FCC for the appropriate authorization and to comply with all policies and rules applicable to the service. Responsibility for making the initial determinations of whether a particular activity requires separate authority rests with the TV station licensee or permittee. Initial determinations by licensees or permittees are subject to FCC examination and may be reviewed at the FCC's discretion. (Added 84-116, 3/29/84)

[Next Page is No. 415]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(c) Subsidiary communications services are of a secondary nature under the authority of the TV station authorization, and the authority to provide such communications services may not be retained or transferred in any manner separate from the station's authorization. The grant or renewal of a TV station permit or license is not furthered or promoted by proposed or past subsidiary communications services. The permittee or licensee must establish that the broadcast operation is in the public interest wholly apart from the subsidiary communications services provided. (Added 84-116, 3/29/84)

(d) The station identification, delayed recording, and sponsor identification announcement required by §§ 73.1201, 73.1208, and 73.1212 are not applicable to leased communications services transmitted via services that are not of a general broadcast nature. (Added 84-116, 3/29/84)

(e) The licensee or permittee must retain control over all material transmitted in a broadcast mode via the station's facilities, with the right to reject any material that is deemed inappropriate or undesirable. (Added 84-116, 3/29/84)

**73.669 TV STEREOPHONIC AURAL AND MULTIPLEX
SUBCARRIER OPERATION.**

(a) A TV broadcast station may without specific authority from the FCC, transmit multichannel aural programs upon installation of multichannel sound equipment. Prior to commencement of multichannel broadcasting, the equipment shall be measured in accordance with § 73.1690(e). (Added 84-116, 3/29/84)

(b) Multiplex subcarriers may be used by a TV station pursuant to the provisions of § 73.665 and may be transmitted on a secondary, non-interference basis to broadcast programming without specific authority from the FCC. Transmissions must be conducted in accordance with the technical standards given in § 73.682(c). (Added 84-116, 3/29/84)

(c) In all arrangements entered into with outside parties affecting non-common carrier subcarrier operation, the licensee or permittee must retain control over all material transmitted over the station's facilities, with the right to reject any material which is deemed inappropriate or undesirable. Subchannel leasing arrangements must be kept in writing at the station and made available to the FCC upon request. (Added 84-116, 3/29/84)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.670 COMMERCIAL LIMITS IN CHILDREN'S PROGRAMS.

No commercial television broadcast station licensee shall air more than 10.5 minutes of commercial matter per hour during children's programming on weekends, or more than 12 minutes of commercial matter per hour on weekdays. (Added 91-113, 10/1/91)

NOTE 1: **Commercial matter** means air time sold for purposes of selling a product or service. (Added 91-113, 10/1/91)

NOTE 2: For purposes of this section, **children's programming** refers to programs originally produced and broadcast primarily for an audience of children 12 years old and younger. (Added 91-113, 10/1/91)

73.671 EDUCATIONAL AND INFORMATIONAL PROGRAMMING FOR CHILDREN. (Added 91-113, 10/1/91)

(a) Each commercial and noncommercial educational television broadcast station licensee has an obligation to serve, over the term of its license, the educational and informational needs of children through both the licensee's overall programming, ~~including~~ and programming specifically designed to serve such needs.

(b) Any special nonbroadcast efforts which enhance the value of children's educational and informational television programming, and any special effort to produce or support educational and informational television programming by another station in the licensee's marketplace, may also contribute to meeting the licensee's obligation to serve, over the term of its license, the educational and informational needs of children. (Added 91-113, 10/1/91)

(c) For purposes of this section, educational and informational television programming is any television programming that furthers the educational and informational needs of children 16 years of age and under in any respect, including the child's intellectual/cognitive or social/emotional needs. Programming specifically designed to serve the educational and informational needs of children ("Core Programming") is educational and informational programming that satisfies the following additional criteria:

- (1) It has serving the educational and informational needs of children ages 16 and under as a significant purpose;
- (2) It is aired between the hours of 7:00 a.m. and 10:00 p.m.;
- (3) It is a regularly scheduled weekly program;
- (4) It is at least 30 minutes in length;

[Next Page is No. 416.1]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (5) The educational and informational objective and the target child audience are specified in writing in the licensee's Children's Television Programming Report, as described in §73.3526(a)(8)(iii); and
- (6) Instructions for listing the program as educational/informational, including an indication of the age group for which the program is intended, are provided by the licensee to publishers of program guides, as described in §73.673(b).

NOTE 1 TO §73.671: For purposes of determining under this section whether programming has a significant purpose of serving the educational and informational needs of children, the Commission will ordinarily rely on the good faith judgments of the licensee. Commission review of compliance with that element of the definition will be done only as a last resort.

NOTE 2 TO §73.671: The Commission will use the following processing guideline in assessing whether a television broadcast licensee has complied with the Children's Television Act of 1990 ("CTA"). A licensee that has aired at least three hours per week of Core Programming (as defined in paragraph (c) of this section and as averaged over a six month period) will be deemed to have satisfied its obligation to air such programming and shall have the CTA portion of its license renewal application approved by the Commission staff. A licensee will also be deemed to have satisfied this obligation and be eligible for such staff approval if the licensee demonstrates that it has aired a package of different types of educational and informational programming that, while containing somewhat less than three hours per week of Core Programming, demonstrates a level of commitment to educating and informing children that is at least equivalent to airing three hours per week of Core Programming. In this regard, specials, PSAs, short-form programs, and regularly scheduled non-weekly programs with a significant purpose of educating and informing children can count toward the three hour per week processing guideline. Licensees that do not meet these processing guidelines will be referred to the Commission, where they will have full opportunity to demonstrate compliance with the CTA (e.g., by relying in part on sponsorship of core educational/informational programs on other stations in the market that increases the amount of core educational and informational programming on the station airing the sponsored program and/or on special nonbroadcast efforts which enhance the value of children's educational and informational television programming).

[Next Page is No. 417]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.672 [REMOVED AND RESERVED]

~~EDUCATIONAL AND INFORMATION PROGRAMMING
FOR CHILDREN ON NONCOMMERCIAL TELEVISION.~~

~~(a) Each noncommercial television broadcast station licensee has an obligation to serve, over the term of its license, the educational and informational needs of children through the licensee's overall programming specifically designed to serve such needs.~~

~~(b) Any special nonbroadcast efforts which enhance the value of children's educational and informational television programming, and any special effort to produce or support educational and informational television programming by another station in the licensee's marketplace, may also contribute to meeting the licensee's obligation to serve, over the term of its license, the educational and informational needs of children.~~

~~NOTE: For purposes of this section, educational and informational television programming is any television programming which furthers the positive development of children 16 years of age and under in any respect, including the child's intellectual/cognitive or social/emotional needs.~~

73.673 PUBLIC INFORMATION INITIATIVES REGARDING
EDUCATIONAL AND INFORMATIONAL
PROGRAMMING FOR CHILDREN.

(a) Each commercial television broadcast licensee shall identify programs specifically designed to educate and inform children at the beginning of the program, in a form that is in the discretion of the licensee.

(b) Each commercial television broadcast station licensee shall provide information identifying programming specifically designed to educate and inform children to publishers of program guides. Such information shall include an indication of the age group for which the program is intended.

73.676 REMOVED (84-549, 12/1/84)

73.677 REMOVED (84-549, 12/1/81)

[Next Page is No. 418.1]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.681 DEFINITIONS.

AMPLITUDE MODULATION (AM).

A system of modulation in which the envelope of the transmitted wave contains a component similar to the wave form of the signal to be transmitted.

ANTENNA ELECTRICAL BEAM TILT.

The shaping of the radiation pattern in the vertical plane of a transmitting antenna by electrical means so that maximum radiation occurs at an angle below the horizontal plane. (Revised 70-345, 5/8/70)

ANTENNA HEIGHT ABOVE AVERAGE TERRAIN.

The average of the antenna heights above the terrain from approximately 3.2 (2 miles) to 16.1 kilometers (10 miles) from the antenna for the eight directions spaced evenly for each 45 degrees of azimuth starting with True North. (In general, a different antenna height will be determined in each direction from the antenna. The average of these various heights is considered the antenna height above the average terrain. In some cases less than 8 directions may be used. See § 73.684(d)). Where circular or elliptical polarization is employed, the antenna height above average terrain shall be based upon the height of the radiation center of the antenna which transmits the horizontal component of radiation. (Edit. Amdt. 6/5/85)

ANTENNA MECHANICAL BEAM TILT.

The intentional installation of a transmitting antenna so that its axis is not vertical, in order to change the normal angle of maximum radiation in the vertical plane. (Revised 70-345, 5/8/70)

ANTENNA POWER GAIN.

The square of the ratio of the root-mean-square free space field strength produced at ~~one mile~~ 1 kilometer in the horizontal plane, in millivolts per meter for one kW antenna input power to ~~437.6~~ 221.4 mV/m. This ratio should be expressed in decibels (dB). (If specified for a particular direction, antenna power gain is based on the field strength in that direction only.)

ASPECT RATIO.

The ratio of picture width to picture height as transmitted.

AURAL CENTER FREQUENCY.

- (1) The average frequency of the emitted wave when modulated by a sinusoidal signal;
- (2) the frequency of the emitted wave without modulation.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

AURAL TRANSMITTER.

The radio equipment for the transmission of the aural signal only.

AUXILIARY FACILITY.

An auxiliary facility is an antenna separate from the main facility's antenna, permanently installed on the same tower or at a different location, from which a station may broadcast for short periods without prior Commission authorization or notice to the Commission while the main facility is not in operation (*e.g.*, where tower work necessitates turning off the main antenna or where lightning has caused damage to the main antenna or transmission system) (*See* § 73.1675).

BTSC.

Broadcast Television systems committee recommendation for multichannel television sound transmission and audio processing as defined in FCC Bulletin OET 60. (Revised 85-670, 4/14/86)

BASEBAND.

Aural transmitter input signals between 0 and 120 kHz. (Added 84-116, 3/29/84)

BLANKING LEVEL.

The level of the signal during the blanketing interval, except the interval during the scanning synchronizing pulse and the chrominance subcarrier synchronizing burst.

CHROMINANCE.

The colorimetric difference between any color and a reference color of equal luminance, the reference color having a specific chromaticity.

CHROMINANCE SUBCARRIER.

The carrier which is modulated by the chrominance information.

[Next Page is No. 418.2a]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

COLOR TRANSMISSION.

The transmission of color television signals which can be reproduced with different values of hue, saturation, and luminance.

EFFECTIVE RADIATED POWER.

The product of the antenna input power and the antenna power gain. This product should be expressed in kW and in dB above 1 kW (dBk). (If specified for a particular direction, effective radiated power is based on the antenna power gain in that direction only. The licensed effective radiated power is based on the maximum antenna power gain. When a station is authorized to use a directional antenna or an antenna beam tilt, the direction of the maximum effective radiated power will be specified.) Where circular or elliptical polarization is employed, the term effective radiated power is applied separately to the horizontally and vertically polarized components of radiation. For assignment purposes, only the effective radiated power authorized for the horizontally polarized component will be considered. (Edit. Amdt. 12/26/84)

[Next Page is No. 418.3]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

EQUIVALENT ISOTROPICALLY RADIATED POWER (EIRP).

The term "equivalent isotropically radiated power" (also known as "effective radiated power above isotropic") means the product of the antenna input power and the antenna gain in a given direction relative to an isotropic antenna. (Added 79-369, 7/2/79)

FIELD.

Scanning through the picture area once in the chosen scanning pattern. In the line interlaced scanning pattern of two to one, the scanning of the alternate lines of the picture area once.

FRAME.

Scanning all of the picture area once. In the line interlaced scanning pattern of two to one, a frame consists of two fields.

FREE SPACE FIELD STRENGTH.

The field strength that would exist at a point in the absence of waves reflected from the earth or other reflecting objects. (Revised 79-369, 7/2/79)

FREQUENCY DEPARTURE.

The amount of variation of a carrier frequency or center frequency from its assigned value. (Revised 79-369, 7/2/79)

FREQUENCY DEVIATION.

The peak difference between the instantaneous frequency of the modulated wave and the carrier frequency. (Revised 79-369, 7/2/79)

FREQUENCY MODULATION (FM).

A system of modulation where the instantaneous radio frequency varies in proportion to the instantaneous amplitude of the modulating signal (amplitude of modulating signal to be measured after pre-emphasis, if used) and the instantaneous radio frequency is independent of the frequency of the modulating signal.

FREQUENCY SWING.

The peak difference between the maximum and the minimum values of the instantaneous frequency of the carrier wave during modulation. (Revised 79-369, 7/2/79)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

INTERLACED SCANNING.

A scanning process in which successively scanned lines are spaced an integral number of line widths, and in which the adjacent lines are scanned during successive cycles of the field frequency.

IRE STANDARD SCALE.

A linear scale for measuring, in IRE units, the relative amplitudes of the components of a television signal from a zero reference at blanking level, with picture information falling in the positive, and synchronizing information in the negative domain. (Added 71-879, 10/5/71)

NOTE: When a carrier is amplitude modulated by a television signal in accordance with § 73.682, the relationship of the IRE standard scale to the conventional measure of modulation is as follows:

Level	IRE standard scale (units)	Modulation percentage
Zero carrier	120	0
Reference white	100	12.5
Blanking	0	75
Synchronizing peaks (maximum carrier level)	-40	100

LUMINANCE.

Luminous flux emitted, reflected, or transmitted per unit solid angle per unit projected area of the source.

MAIN CHANNEL.

The band of frequencies from 50 to 15,000 Hertz which frequency modulate the main aural carrier. (Added 84-116, 3/29/84)

MONOCHROME TRANSMISSION.

The transmission of television signals which can be reproduced in gradations of a single color only.

MULTICHANNEL TELEVISION SOUND (MTS).

Any system of aural transmission that utilizes aural baseband operation between 15 kHz and 120 kHz to convey information or that encodes digital information in the video portion of the television signal that is intended to be decoded as audio information. (Edit. 9/27/84)

[Next Page is No. 419]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

MULTIPLEX TRANSMISSION (AURAL). (Added 71-285, 4/30/71)

A subchannel added to the regular aural carrier of a television broadcast station by means of frequency modulated subcarriers.

NEGATIVE TRANSMISSION.

Where a decrease in initial light intensity causes an increase in the transmitted power.

PEAK POWER.

The power over a radio frequency cycle corresponding in amplitude to synchronizing peaks.

PERCENTAGE MODULATION.

As applied to frequency modulation, the ratio of the actual frequency deviation to the frequency deviation defined as 100% modulation, expressed in percentage. For the aural transmitter of television broadcast stations, a frequency deviation of ± 25 kHz is defined as 100% modulation. (Revised 79-369, 7/2/79)

PILOT SUBCARRIER.

A subcarrier used in the reception of TV stereophonic aural or other subchannel broadcasts. (Added 84-116, 3/29/84)

POLARIZATION.

The direction of the electric field as radiated from the transmitting antenna. (Edit. Amdt. 12/21/63)

PROGRAM RELATED DATA SIGNAL.

A signal, consisting of a series of pulses representing data, which is transmitted simultaneously with and directly related to the accompanying television program. (Added 76-1134, 3/1/77)

REFERENCE BLACK LEVEL.

The level corresponding to the specified maximum excursion of the luminance signal in the black direction. (Edit. Amdt. 12/21/63)

REFERENCE WHITE LEVEL OF THE LUMINANCE SIGNAL.

The level corresponding to the specified maximum excursion of the luminance signal in the white direction.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

SCANNING.

The process of analyzing successively, according to a predetermined method, the light values of picture elements constituting the total picture area.

SCANNING LINE.

A single continuous narrow strip of the picture area containing highlights, shadows, and half-tones, determined by the process of scanning.

STANDARD TELEVISION SIGNAL.

A signal which conforms to the television transmission standards.

SYNCHRONIZATION.

The maintenance of one operation in step with another.

TELEVISION BROADCAST BAND.

The frequencies in the band extending from 54 to 806 megahertz which are assignable to television broadcast stations. These frequencies are 54 to 72 megahertz (channels 2 through 4), 76 to 88 megahertz (channels 5 and 6), 174 to 216 megahertz (channels 7 through 13), and 470 to 806 megahertz (channels 14 through 69). (Revised 82-333, 9/14/82)

TELEVISION BROADCAST STATION.

A station in the television broadcast band transmitting simultaneous visual and aural signals intended to be received by the general public.

TELEVISION CHANNEL.

A band of frequencies 6 MHz wide in the television broadcast band and designated either by number or by the extreme lower and upper frequencies.

TELEVISION TRANSMISSION STANDARDS.

The standards which determine the characteristics of a television signal as radiated by a television broadcast station.

TELEVISION TRANSMITTER.

The radio transmitter or transmitters for the transmission of both visual and aural signals.

[Next Page is No. 420.1]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

VESTIGIAL SIDEBAND TRANSMISSION.

A system of transmission wherein one of the generated sidebands is partially attenuated at the transmitter and radiated only in part.

VISUAL CARRIER FREQUENCY.

The frequency of the carrier which is modulated by the picture information.

VISUAL TRANSMITTER.

The radio equipment for the transmission of the visual signal only.

VISUAL TRANSMITTER POWER.

The peak power output when transmitting a standard television signal.

73.682 TV TRANSMISSION STANDARDS. (Revised 83-485, 12/23/83)**(a) TRANSMISSION STANDARDS.**

- (1) The width of the television broadcast channel shall be 6 MHz.
- (2) The visual carrier frequency shall be nominally 1.25 MHz above the lower boundary of the channel.
- (3) The aural center frequency shall be 4.5 MHz higher than the visual carrier frequency.
- (4) The visual transmission amplitude characteristic shall be in accordance with the chart designated as Figure 5 of § 73.699: Provided, however, That for stations operating on Channel 15-69 and employing a transmitter with maximum peak visual power output of 1 kW or less the visual transmission amplitude characteristic may be in accordance with the chart designated as Figure 5a of § 73.699. (Revised 82-333, 9/14/82)
- (5) The chrominance subcarrier frequency is 63/88 times precisely 5 MHz (3.57954545...MHz). The tolerance is ± 10 Hz and the rate of frequency drift must not exceed 0.1 Hz per second (cycles per second squared). (Editorial Amendment, 4/30/80)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (6) For monochrome and color transmissions the number of scanning lines per frame shall be 525, interlaced two to one in successive fields. The horizontal scanning frequency shall be 2/455 times the chrominance subcarrier frequency; this corresponds nominally to 15,750 Hz (with an actual value of 15,734.264 \pm 0.044 Hz). The vertical scanning frequency is 2/525 times the horizontal scanning frequency; this corresponds nominally to 60Hz (the actual value is 59.94 Hz). For monochrome transmissions only, the nominal values of line and field frequencies may be used.
- (7) The aspect ratio of the transmitted television picture shall be 4 units horizontally to 3 units vertically.
- (8) During active scanning intervals, the scene shall be scanned from left to right horizontally and from top to bottom vertically, at uniform velocities.
- (9) A carrier shall be modulated within a single television channel for both picture and synchronizing signals. The two signals comprise different modulation ranges in amplitude in accordance with the following:
(Revised 77-476, 7/18/77)
- (i) Monochrome transmissions shall comply with synchronizing waveform specifications in Figure 7 of § 73.699. (Added 77-476, 7/18/77)
- (ii) Color transmissions shall comply with the synchronizing waveform specifications in Figure 6 of § 73.699. (Added 77-476, 7/18/77)
- (iii) All stations operating on Channels 2 through 14 and those stations operating on Channels 15 through 69 licensed for a peak visual transmitter output power greater than one kW shall comply with the picture transmission amplitude characteristics shown in Figure 5 of § 73.699. (Revised 82-333, 9/14/82)
- (iv) Stations operating on Channels 15 through 69 licensed for a peak visual transmitter output power of one kW or less shall comply with the picture transmission amplitude characteristic shown in Figure 5 or 5a of § 73.699. (Revised 82-333, 9/14/82)
- (10) A decrease in initial light intensity shall cause an increase in radiated power (negative transmission).

[Next Page is No. 421]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (11) The reference black level shall be represented by a definite carrier level, independent of light and shade in the picture.
- (12) The blanking level shall be transmitted at 75 ± 2.5 percent of the peak carrier level.
- (13) The reference white level of the luminance signal shall be 12.5 ± 2.5 percent of the peak carrier level.
- (14) It shall be standard to employ horizontal polarization. However, circular or elliptical polarization may be employed if desired, in which case clockwise (right hand) rotation, as defined in the IEEE Standard Definition 42A65-3E2, and transmission of the horizontal and vertical components in time and space quadrature shall be used. For either omnidirectional or directional antennas the licensed effective radiated power of the vertically polarized component may not exceed the licensed effective radiated power of the horizontally polarized component. For directional antennas, the maximum effective radiated power of the vertically polarized component shall not exceed the maximum effective radiated power of the horizontally polarized component in any specified horizontal or vertical direction. (Added 77-259, 5/20/77)
- (15) The effective radiated power of the aural transmitter must not exceed 22% of the peak radiated power of the visual transmitter. (Revised 84-165, 5/31/84)
- (16) The peak-to-peak variation of transmitter output within one frame of video signal due to all causes, including hum, noise, and low-frequency response, measured at both scanning synchronizing peak and blanking level, shall not exceed 5 percent of the average scanning synchronizing peak signal amplitude. This provision is subject to change but is considered the best practice under the present state of the art. It will not be enforced pending a further determination thereof.
- (17) The reference black level shall be separated from the blanking level by the setup interval, which shall be 7.5 ± 2.5 percent of the video range from blanking level to the reference white level.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (18) For monochrome transmission, the transmitter output shall vary in substantially inverse logarithmic relation to the brightness of the subject. No tolerances are set at this time. This provision is subject to change but is considered the best practice under the present state of the art. It will not be enforced pending a further determination thereof.
- (19) The color picture signal shall correspond to a luminance component transmitted as amplitude modulation of the picture carrier and a simultaneous pair of chrominance components transmitted as the amplitude modulation sidebands of a pair of suppressed subcarriers in quadrature.
- (20) Equation of complete color signal.

- (i) The color picture signal has the following composition:

$$E_M = E_Y' + [E_Q' \sin(\omega t + 33^\circ) + E_I' \cos(\omega t + 33^\circ)]$$

Where:

$$E_Q' = 0.41(E_B' - E_Y') + 0.48(E_R' - E_Y')$$

$$E_I' = -0.27(E_B' - E_Y') + 0.74(E_R' - E_Y')$$

$$E_Y' = 0.30E_R' + 0.59E_G' + 0.11E_B'$$

For color-difference frequencies below 500 kHz (see (iii) below), the signal can be represented by:

$$E_M = E_Y' + [(1/1.14) [(1/1.78) (E_B' - E_Y') \sin \omega t + (E_R' - E_Y') \cos \omega t]]$$

- (ii) The symbols in paragraph (a)(20)(i) of this section have the following significance:

E_M is the total video voltage, corresponding to the scanning of a particular picture element, applied to the modulator of the picture transmitter.

E_Y' is the gamma-corrected voltage of the monochrome (black and white) portion of the color picture signal, corresponding to the given picture element.

[Next Page is No. 422.1]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

NOTE: Forming of the high frequency portion of the monochrome signal in a different manner is permissible and may in fact be desirable in order to improve the sharpness on saturated colors.

E_Q' and E_I' are the amplitudes of two orthogonal components of the chrominance signal corresponding respectively to narrow-band and wide-band axes.

E_R' , E_G' , and E_B' are the gamma-corrected voltages corresponding to red, green, and blue signals during the scanning of the given picture element.

[Next Page is No. 423]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

ω is the angular frequency and is 2 times the frequency of the chrominance subcarrier.

The portion of each expression between brackets in (i) represents the chrominance subcarrier signal which carries the chrominance information.

The phase reference in the E_M equation in (i) is the phase of the burst $+180^\circ$, as shown in Figure 8 of § 73.699. The burst corresponds to amplitude modulation of a continuous sine wave.

- (iii) The equivalent bandwidth assigned prior to modulation to the color difference signals E_Q' and E_I' are as follows:

Q-channel bandwidth:

At 400 kHz less than 2 dB down.

At 500 kHz less than 6 dB down.

At 600 kHz at least 6 dB down.

I-channel bandwidth:

At 1.3 MHz less than 2 dB down.

At 3.6 MHz at least 20 dB down.

- (iv) The gamma corrected voltages E_R' , E_G' and E_B' are suitable for a color picture tube having primary colors with the following chromaticities in the CIE system of specification:

	x	y
Red (R)	0.67	0.33
Green (G)	0.21	0.71
Blue (B)	0.14	0.08

and having a transfer gradient (gamma exponent) of 2.2 associated with each primary color. The voltages E_R' , E_G' , and E_B' may be respectively of the form $E_R' 1/\gamma$, and $E_G' 1/\gamma$, and $E_B' 1/\gamma$ although other forms may be used with advances in the state of the art.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

NOTE: At the present state of the art it is considered inadvisable to set a tolerance on the value of gamma and correspondingly this portion of the specification will not be enforced.

- (v) The radiated chrominance subcarrier shall vanish on the reference white of the scene.

NOTE: The numerical values of the signal specification assume that this condition will be reproduced as CIE Illuminant C ($x = 0.310$, $y = 0.316$).

- (vi) $E_{Y'}$, $E_{Q'}$, $E_{I'}$, and the components of these signals shall match each other in time to 0.05 μ secs.

- (vii) The angles of the subcarrier measured with respect to the burst phase, when reproducing saturated primaries and their complements at 75 percent of full amplitude, shall be within $\pm 10^\circ$ and their amplitudes shall be within ± 20 percent of the values specified above. The ratios of the measured amplitudes of the subcarrier to the luminance signal for the same saturated primaries and their complements shall fall between the limits of 0.8 and 1.2 of the values specified for their ratios. Closer tolerances may prove to be practicable and desirable with advance in the art.

- (21) The interval beginning with line 17 and continuing through line 20 of the vertical blanking interval of each field may be used for the transmission of test signals, cue and control signals, and identification signals, subject to the conditions and restrictions set forth below. Test signals may include signals designed to check the performance of the overall transmission system or its individual components. Cue and control signals shall be related to the operation of the TV broadcast station. Identification signals may be transmitted to identify the broadcast material or its source, and the date and time of its origination. Figures 6 and 7 of § 73.699 identify the numbered lines referred to in this subparagraph. (Correction 81-334, 8/31/81)

[Next Page is No. 424.1]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (i) Modulation of the television transmitter by such signals shall be confined to the area between the reference white level and the blanking level, except where test signals include chrominance subcarrier frequencies, in which case positive excursions of chrominance components may exceed reference white, and negative excursions may extend into the synchronizing area. In no case may the modulation excursions produced by test signals extend beyond peak-of-sync, or to zero carrier level. (Amended 74-1234, 12/27/74)
- (ii) The use of such signals shall not result in significant degradation of the program transmissions of the television broadcast station, nor produce emissions outside of the frequency band occupied for normal program transmissions. (Corrected 81-334, 8/31/81)
- (iii) Such signals shall not be transmitted during that portion of each line devoted to horizontal blanking. (Corrected 81-334, 8/31/81)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (iv) Regardless of other provisions of this paragraph, after June 30, 1994, Line 19, in each field may be used only for the transmission of the ghost-canceling reference signal described in OET Bulletin No. 68, which is available from the Commission's Office of Engineering and Technology, Technical Standards Branch, 2025 M Street NW, Washington, DC 20554. Notwithstanding the modulation limits contained in paragraph (a)(23)(i) of this section, the vertical interval reference signal formerly permitted on Line 19 and described in Figure 16 of § 73.699, may be transmitted on any of lines 10 through 16 without specific Commission authorization, subject to the conditions contained in paragraphs (a)(21)(ii) and (a)(22)(ii) of this section. (22)(i) Line 21, in each field, may be used for the transmission of a program-related data signal which, when decoded, provides a visual depiction of information simultaneously being presented on the aural channel (captions). Such data signal shall conform to the format described in Figure 16 of § 73.699 and may be transmitted during all periods of regular operation. On a space available basis, line 21 field 2 may also be used for text-mode data and extended data service information.

NOTE:

The signals on Fields 1 and 2 shall be distinct data streams, for example, to supply captions in different languages or at different languages or at different reading levels.

[Next Page is No. 424.2a]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (22) (i) ~~All of Line 21, Field 1 and the first half of Line 21, Field Line 21, in each field, may be used for the transmission of a program-related data signal which, when decoded, provides a visual depiction of information simultaneously being presented on the aural channel (captions). Line 21, field 2 may be used for transmission of a program-related data signal which, when decoded, identifies a rating level associated with the current program.~~ Such data signals shall conform to the format described in ~~Figure 17a of § 73.699 of this chapter,~~ and may be transmitted during all periods of regular operation. ~~On a space available basis, line 21 field 2 may also be used for text-mode data and extended data service information.~~

NOTE: The signals on Fields 1 and 2 shall be distinct data streams, for example, to supply captions in different languages or at different reading levels.

- (A) A decoder test signal consisting of data representing a repeated series of alphanumeric characters may be transmitted at times when no program related data is being transmitted. (Added 93-235, 6/30/93)
- (B) The data signal shall be coded using a non-return-to-zero (NRZ) format and shall employ standard ASCII 7 bit plus parity character codes. (Added 93-235, 6/30/93)

NOTE: For more information on data formats and specific data packets, see EIA-608, "Line 21 Data Services for NTSC," available from the Electronics Industries Association. (Added 93-235, 6/30/93)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (C) A framing code to be used by the data decoder may be transmitted during the first half of Line 21, Field 2 when data, reference pulse and test signals are present. See Figure 17c of § 73.699 for a description of the format for the framing code. *(76-1134, 3/1/77)
- (D) The data signal shall be coded using a non-return-to-zero (NRZ) format and shall employ standard ASCII 7 bit plus parity character codes (76-1134, 3/1/77)
- (ii) At times when Line 21 is not being used to transmit a program related data signal, data signals which are not program related may be transmitted, Provided: the same data format is used and the information to be displayed is of a broadcast nature. *(76-1134, 3/1/77)
- (iii) The use of Line 21 for transmission of other data signals conforming to other formats may be used subject to prior authorization by the Commission. (76-1134, 3/1/77)
- (iv) The data signal shall cause no significant degradation to any portion of the visual signal nor produce emissions outside the authorized television channel. (76-1134, 3/1/77)
- (v) Transmission of visual emergency messages pursuant to § 73.1250 shall take precedence and shall be cause for interrupting transmission of data signals permitted under this subparagraph. (76-1134, 3/1/77)
- (23) Specific scanning lines in the vertical blanking interval may be used for the purpose of transmitting telecommunications signals in accordance with § 73.646, subject to certain conditions:
 - (i) Telecommunications may be transmitted on Lines 10-18 and 20, all of Field 2 and Field 1. Modulation level shall not exceed 70 IRE on lines 10, 11, and 12; and, 80 IRE on lines 13-18 and 20. (Revised 86-385, 10/27/86)
 - (ii) No observable degradation may be caused to any portion of the visual or aural signals. (Added 83-120, 3/31/83)

[Next Page is No. 424.3]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (iii) Telecommunications signals must not produce emissions outside the authorized television channel bandwidth. Digital data pulses must be shaped to limit spectral energy to the nominal video baseband. (Revised 84-530, 3/4/85)
 - (iv) Transmission of emergency visual messages pursuant to § 73.1250 must take precedence over, and shall be cause for interrupting, a service such as teletext that provides a visual depiction of information simultaneously transmitted on the aural channel. (Edit. Amdt. 7/9/87)
 - (v) A reference pulse for a decoder associated adaptive equalizer filter designed to improve the decoding of telecommunications signals may be inserted on any portion of the vertical blanking interval authorized for data service, in accordance with the signal levels set forth in paragraph (a)(23)(i) of this section. (Revised 86-385, 10/27/86)
 - (vi) All lines authorized for telecommunications transmissions may be used for other purposes upon prior approval by the Commission. (Revised 84-530, 3/4/85)
- (24) Licensees and permittees of TV broadcast and low power TV stations may insert non-video data into the active video portion of their TV transmission, subject to certain conditions:
- (i) The active video portion of the visual signal begins with line 22 and continues through the end of each field, except it does not include that portion of each line devoted to horizontal blanking. Figures 6 and 7 of § 73.699 identify the numbered line referred to in this paragraph;
 - (ii) Inserted non-video data may be used for the purpose of transmitting a telecommunications service in accordance with § 73.646. In addition to a telecommunications service, non-video data can be used to enhance the station's broadcast program service or for purposes related to station operations. Signals relating to the operation of TV stations include, but are not limited to program or source identification, relay of broadcast materials to other stations, remote cueing and order messages, and control and telemetry signals for the transmitting system; and

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (iii) A station may only use systems for inserting non-video information that have been approved in advance by the Commission. The criteria for advance approval of systems are as follows: (Added 96-274, 7/10/96)
- (A) The use of such signals shall not result in significant degradation to any portion of the visual, aural, or program-related data (~~closed captioning~~) signals of the television broadcast station;
 - (B) No increase in width of the television broadcast channel (6 MHz) is permitted. Emissions outside the authorized television channel must not exceed the limitations given in § 73.687(e). Interference to reception of television service either of co-channel or adjacent channel stations must not increase over that resulting from the transmission of programming without inserted data; and (Added 96-274, 7/10/96)
 - (C) Where required, system receiving or decoding devices must meet the TV interface device provisions of Part 15, Subpart H of this chapter. (Added 96-274, 7/10/96)
- (iv) No protection from interference of any kind will be afforded to reception of inserted non-video data. (Added 96-274, 7/10/96)
- (v) Upon request by an authorized representative of the Commission, the licensee of a TV station transmitting encoded programming must make available a receiving decoder to the Commission to carry out its regulatory responsibilities. (Added 96-274, 7/10/96)

(b) SUBSCRIPTION TV TECHNICAL SYSTEMS.

The FCC may specify, as part of the advance approval of the technical system for transmitting encoded subscription programming, deviations from the power determination procedures, operating power levels, aural or video baseband signals, modulation levels or other characteristics of the transmitted signal as otherwise specified in this Subpart. Any decision to approve such operating deviations shall be solely at the discretion of the FCC. (Edit. Amdt., 1/27/84)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(c) TV MULTIPLEX SUBCARRIER/STEREOPHONIC AURAL TRANSMISSION STANDARDS.

- (1) The modulating signal for the main channel shall consist of the sum of the stereophonic (biphonic, quadrasonic, etc.) input signals. (Added 84-116, 3/29/84)
- (2) The instantaneous frequency of the baseband stereophonic subcarrier must at all times be within the range 15 kHz to 120 kHz. Either amplitude or frequency modulation of the stereophonic subcarrier may be used. (Added 84-116, 3/29/84)
- (3) One or more pilot subcarriers between 16 kHz and 120 kHz may be used to switch a TV receiver between the stereophonic and monophonic reception modes or to activate a stereophonic audio indicator light, and one or more subcarriers between 15 kHz and 120 kHz may be used for any other authorized purpose; except that stations employing the BTSC system of stereophonic sound transmission and audio processing may transmit a pilot subcarrier at 15,734 Hz, ± 2 Hz. Other methods of multiplex subcarrier or stereophonic aural transmission systems must limit energy at 15,734 Hz, ± 20 Hz, to no more than ± 0.125 kHz aural carrier deviation. (Added 84-116, 3/29/84)
- (4) Aural baseband information above 120 kHz must be attenuated 40 dB referenced to 25 kHz main channel deviation of the aural carrier. (Added 84-116, 3/29/84)
- (5) For required transmitter performance, all of the requirements of § 73.687(b) shall apply to the main channel, with the transmitter in the multiplex subcarrier or stereophonic aural mode. (Added 84-116, 3/29/84)
- (6) For electrical performance standards of the transmitter, the requirements of § 73.687(b) apply to the main channel. (Added 84-116, 3/29/84)
- (7) Multiplex subcarrier or stereophonic aural transmission systems must be capable of producing and must not exceed ± 25 kHz main channel deviation of the aural carrier. (Added 84-116, 3/29/84)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (8) The arithmetic sum of non-multiphonic baseband signals between 15 kHz and 120 kHz must not exceed ± 50 kHz deviation of the aural carrier. (Added 84-116, 3/29/84)
- (9) Total modulation of the aural carrier must not exceed ± 75 kHz. (Added 84-116, 3/29/84)

(d) **DIGITAL BROADCAST TELEVISION TRANSMISSION STANDARD.**

Transmission of digital broadcast television (DTV) signals shall comply with the standards for such transmissions set forth in Advanced Television Systems Committee (ATSC) Doc. A/52 ("ATSC Standard Digital Audio Compression (AC-3), 20 Dec 95") and ATSC Doc A/53 ("ATSC Digital Television Standard, 16 Sep 95"), except for Section 5.1.2 ("Compression format constraints") of Annex A ("Video Systems Characteristics") and the phrase "see Table 3" in Section 5.1.1 Table 2 and Section 5.1.2. Table 4. Although not incorporated herein by reference, licensees may also consult ATSC Doc. A/54 ("Guide to the Use of the ATSC Digital Television Standard, 4 Oct 95") for guidance. This incorporation by reference was approved by the Director of the Federal Register in accordance with 5 U.S.C. 552(a) and 1 CFR part 51. Copies may be inspected at the Federal Communications Commission, 1919 M Street, NW., Washington, DC 20554 or at the Office of the Federal Register, 800 N. Capitol Street, NW., Washington, DC. Copies of ATSC/52, A/53, and A/54 can be obtained from the Commission's contract copier or from the Advanced Television Systems Committee, 1750 K Street, NW., Suite 800, Washington, DC 20006. They are also available in their entirety on the Internet at <http://www.atsc.org>.

[Next Page is No. 425]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.683 FIELD STRENGTH CONTOURS.

(a) In the authorization of TV stations, two field strength contours are considered. These are specified as Grade A and Grade B and indicate the approximate extent of coverage over average terrain in the absence of interference from other television stations. Under actual conditions, the true coverage may vary greatly from these estimates because the terrain over any specific path is expected to be different from the average terrain on which the field strength charts were based. The required field strength, F (50,50), in dB above one micro-volt per meter (dBu) for the Grade A and Grade B contours are as follows: (Revised 82-333, 9/14/82)

	Grade A (dBu)	Grade B (dBu)
Channels 2-6	68	47
Channels 7-13	71	56
Channels 14-69	74	64

** (b) It should be realized that the F (50,50) curves when used for Channels 14-69 are not based on measured data at distances beyond about 48.3 kilometers (30 miles). Theory would indicate that the field strengths for Channels 14-69 should decrease more rapidly with distance beyond the horizon than for Channels 2-6, and modification of the curves for Channels 14-69 may be expected as a result of measurements to be made at a later date. For these reasons, the curves should be used with appreciation of their limitations in estimating levels of field strength. Further, the actual extent of service will usually be less than indicated by these estimates due to interference from other stations. Because of these factors, the predicted field strength contours give no assurance of service to any specific percentage of receiver locations within the distances indicated. In licensing proceedings these variations will not be considered.

(c) The field strength contours will be considered for the following purposes only: (Revised 79-369, 7/2/79)

- (1) In the estimation of coverage resulting from the selection of a particular transmitter site by an applicant for a TV station.
- * (2) In connection with problems of coverage arising out of application of ~~§ 73.66.~~ § 73.3555.
- (3) In determining compliance with § 73.685(a) concerning the minimum field strength to be provided over the principal community to be served. (Revised 79-369, 7/2/79)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.684 PREDICTION OF COVERAGE.

(a) All predictions of coverage made pursuant to this section shall be made without regard to interference and shall be made only on the basis of estimated field strengths. The peak power of the visual signal is used in making predictions of coverage. (Edit. Amdt. 6/5/85)

(b) Predictions of coverage shall be made only for the same purposes as relate to the use of field strength contours as specified in § 73.683(c). (Revised 79-369, 7/2/79)

(c) *In predicting the distance to the field strength contours, the F(50,50) field strength charts (Figures 9 and 10 of § 73.699) shall be used. If the 50% field strength is defined as that value exceeded for 50% of the time, these F(50,50) charts give the estimated 50% field strengths exceeded at 50% of the locations in dB above 1 uV/m. The charts are based on an effective power of 1 kW radiated from a half-wave dipole in free space, which produces an unattenuated field strength at 1.61 kilometers (1 mile) of about 103 dB above 1 uV/m. To use the charts to predict the distance to a given contour, the following procedure is used: Convert the effective radiated power in kilowatts for the appropriate azimuth into decibel value referenced to 1 kW (dBu). If necessary, convert the selected contour to the decibel value (dBu) above 1 microvolt per meter (1 uV/m). Subtract the power value in dBk from the contour value in dBu. Note that for power less than 1 kW, the difference value will be greater than the contour value because the power in dBk is negative. Locate the difference value obtained on the vertical scale at the left edge of the chart. Follow the horizontal line for that value into the chart to the point of intersection with the vertical line above the height of the antenna above average terrain for the appropriate azimuth located on the scale at the bottom of the chart. If the point of intersection does not fall exactly on a distance curve, interpolate between the distance curves below and above the intersection point. The distance values for the curves are located along the right edge of the chart.

- (1) In predicting the distance to the Grade A and Grade B field strength contours, the effected radiated power to be used is that radiated at the vertical angle corresponding to the depression angle between the transmitting antenna center of radiation and the radio horizon as determined individually for each azimuthal direction concerned. The depression angle is based on the difference in elevation of the antenna center of radiation above the average terrain and the radio horizon, assuming a smooth spherical earth with a radius of 8,495.5 kilometers (5,280 miles) and shall be determined by the following equation: (Edit. Amdt. 6/5/85)

$$A = 0.0277 \sqrt{H} \quad (\text{Edit. Amdt. 6/5/85})$$

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

Where:

A is the depression angle in degrees. (Edit. Amdt. 6/5/85)

H is the height in meters of the transmitting antenna radiation center above average terrain of the 3.2-16.1 kilometer (2-10 miles) sector of the pertinent radial. (Edit. Amdt. 6/5/85)

This formula is empirically derived for the limited purpose specified here. Its use for any other purpose may be inappropriate.

- (2) In cases where the relative field strength at the depression angle determined by the above formula is 90% or more of the maximum field strength developed in the vertical plane containing the pertinent radial, the maximum radiation shall be used. (Revised 79-369, 7/2/79)
- (3) In predicting field strengths for other than the Grade A and Grade B contours, the effective radiated power to be used shall be based on the appropriate antenna vertical plane radiation pattern for the azimuthal direction concerned.
- (4) Applicants for new television stations or changes in the facilities of existing television stations must submit to the FCC a showing as to the location of their stations' or proposed stations' predicted Grade A and Grade B contours, determined in accordance with § 73.684. This showing is to include maps showing these contours, except where applicants have previously submitted material to the FCC containing such information and it is found upon careful examination that the contour locations indicated therein would not change, on any radial, when the locations are determined under this Section. In the latter cases, a statement by a qualified engineer to this effect will satisfy this requirement and no contour maps need be submitted.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(d) The antenna height to be used with these charts is in the height of the radiation center of the antenna above the average terrain along the radial in question. In determining the average elevation of the terrain, the elevations between 3.2-16.1 kilometers (2-10 miles) from the antenna site are employed. Profile graphs shall be drawn for 8 radials beginning at the antenna site and extending 16.1 kilometers (10 miles) therefrom. The radials should be drawn for each 45 degrees of azimuth starting with the True North. At least one radial must include the principal community to be served even though such community may be more than 16.1 kilometers (10 miles) from the antenna site. However, in the event none of the evenly spaced radials include the principal community to be served and one or more such radials are drawn in addition to the 8 evenly spaced radials, such additional radials shall not be employed in computing the antenna height above average terrain. Where the 3.2-16.1 kilometers (2-10 mile) portion of a radial extends in whole or in part over large bodies of water as specified in paragraph (e) of this section or extends over foreign territory but the Grade B strength contour encompasses land area within the United States beyond the 16.1 kilometers (10 mile) portion of the radial, the entire 3.2-16.1 kilometers (2-10 mile) portion of the radial shall be included in the computation of antenna height above average terrain. However, where the Grade B contour does not so encompass United States land area and (1) the entire 3.2-16.1 kilometers (2-10 mile) portion of the radial extends over large bodies of water of foreign territory, such radial shall be completely omitted from the computation of antenna height above average terrain, and (2) where a part of the 3.2-16.1 kilometers (2-10 mile) portion of a radial extends over large bodies of water or over foreign territory, only that part of the radial extending from the 3.2 kilometer (2 mile) sector to the outermost portion of land area within the United States covered by the radial shall be employed in the computation of antenna height above average terrain. The profile graph for each radial should be plotted by contour intervals of from 12.2-30.5 meters (40 - 100 feet) and, where the data permits, at least 50 points of elevation (generally uniformly spaced) should be used for each radial. In instances of very rugged terrain where the use of contour intervals of 30.5 meters (100 feet) would result in several points in a short distance, 61.0-122.0 meter (200-400 foot) contour intervals may be used for such distances. On the other hand, where the terrain is uniform or gently sloping the smallest contour interval indicated on the topographic map (see paragraph 9(g) of this section) should be used, although only relatively few points may be available. The profile graphs should indicate the topography accurately for each radial, and the graphs should be plotted with the distance in kilometers as the abscissa and the elevation in meters above mean sea level as the ordinate. The profile graphs should indicate the source of the topographical data employed. The graph should also show the elevation of the center of the radiating system. The graph may be plotted either on rectangular coordinate paper or on special paper which shows the curvature of the earth. It is not necessary to take the curvature of the earth into consideration in this procedure, as this factor is taken care of in the charts showing signal strengths. *(Continued on next page)*

[Next Page is No. 428.1]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

The average elevation of the 12.9 kilometer (8 miles) distance between 3.2-16.1 kilometers (2-10 miles) from the antenna site should then be determined from the profile graph for each radial. This may be obtained by averaging a large number of equally spaced points, by using a planimeter, or by obtaining the median elevation (that exceeded for 50% of the distance) in sectors and averaging those values.*

NOTE: The Commission will, upon a proper showing by an existing station that the application of this rule will result in an unreasonable power reduction in relation to other stations in close proximity, consider requests for adjustment in power on the basis of a common average terrain figure for the stations in question as determined by the FCC.*

(e) In instances where it is desired to determine the area in square kilometers within the Grade A and Grade B field strength contours, the area may be determined from the coverage map by planimeter or other approximate means; in computing such areas, exclude (1) areas beyond the borders of the United States, and (2) large bodies of water, such as ocean areas, gulfs, sounds, bays, large lakes, etc., but not rivers.*

(f) In cases where terrain in one or more directions from the antenna site departs widely from the average elevation of the 3.2 to 16.1 kilometers (2 to 10 mile) sector, the prediction method may indicate contour distances that are different from what may be expected in practice. For example, a mountain ridge may indicate the practical limit of service although the prediction method may indicate otherwise. In such cases, the prediction method should be followed, but a supplemental showing may be made concerning the contour distances as determined by other means. Such supplemental showing should describe the procedure employed and should include sample calculations. Maps of predicted coverage should include both the coverage as predicted by the regular method and as predicted by a supplemental method. When measurements of area are required, these should include the area obtained by the regular predicted method and the area obtained by the supplemental method. In directions where the terrain is such that negative antenna heights or heights below 30.5 meters (100 feet) for the 3.2 to 16.1 kilometers (2 to 10 mile) sector are obtained, an assumed height of 30.5 meters (100 feet) shall be used for the prediction of coverage. However, where the actual contour distances are critical factors, a supplemental showing of expected coverage must be included together with a description of the method employed in predicting such coverage. In special cases, the Commission may require additional information as to terrain and coverage.*

(*Edit. Amdt. 6/5/85)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(g) In the preparation of the profile graph previously described, and in determining the location and height above sea level of the antenna site, the elevation or contour intervals shall be taken from the United States Geologic Survey Topographic Quadrangle Maps, United States Army Corps of Engineers' maps or Tennessee Valley Authority maps, whichever is the latest, for all areas for which such maps are available. If such maps are not published for the area in question, the next best topographic information should be used. Topographic data may sometimes be obtained from State and Municipal agencies. Data from Sectional Aeronautical Charts (including bench marks) or railroad depot elevations and highway elevations from road maps may be used where no better information is available. In cases where limited topographic data is available, use may be made of an altimeter in a car driven along roads extending generally radially from the transmitter site. Ordinarily the Commission will not require the submission of topographical maps for areas beyond 24.1 kilometers (15 miles) from the antenna site, but the maps must include the principal community to be served. If it appears necessary, additional data may be requested. United States Geological Survey Topographic Quadrangle Maps may be obtained from the United States Geological Survey, Department of the Interior, Washington, D.C. 20240. Sectional Aeronautical Charts are available from the United States Coast and Geodetic Survey, Department of Commerce, Washington, D.C. 20235. In lieu of maps, the average terrain elevation may be computer generated, except in the cases of dispute, using elevations from a 30 second point or better topographic data file. The file must be identified and the data processed for intermediate points along each radial using linear interpolation techniques. The height above mean sea level of the antenna site must be obtained manually using appropriate topographic maps.

(h) The effect of terrain roughness on the predicted field strength of a signal at points distant from a television broadcast station is assumed to depend on the magnitude of a terrain roughness factor (Δh) which, for a specific propagation path, is determined by the characteristics of a segment of the terrain profile for that path 40.2 kilometers (25 miles) in length, located between 9.7 and 49.9 kilometers (6 and 31 miles) from the transmitter. The terrain roughness factor has a value equal to the difference, in meters, between elevations exceeded by all points on the profile for 10 percent and 90 percent, respectively, of the length of the profile segment (see § 73.699, Fig. 10d). (Edit. Amdt. 6/5/85)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(i) If the lowest field strength value of interest is initially predicted to occur over a particular propagation path at a distance which is less than 49.9 kilometers (31 miles) from the transmitter, the terrain profile segment used in determination of the terrain roughness factor over that path shall be that included between points 9.7 kilometers (6 miles) from the transmitter and such lesser distance. No terrain roughness correction need be applied when all field strength values of interest are predicted to occur 9.7 kilometers (6 miles) or less from the transmitter. (Edit. Amdt. 6/5/85)

(j) Profile segments prepared for terrain roughness factor determinations should be plotted in rectangular coordinates, with no less than 50 points evenly spaced within the segment, using data obtained from topographic maps, if available, with contour intervals of 15.2 meters (50 feet), or less. (Edit. Amdt. 6/5/85)

(k) *The field strength charts (§ 73.699, Figs. 9-10c) were developed assuming a terrain roughness factor of 50 meters, which is considered to be representative of average terrain in the United States. Where the roughness factor for a particular propagation path is found to depart appreciably from this value, a terrain roughness correction (ΔF) should be applied to field strength values along this path as predicted with the use of these charts. The magnitude and sign of this correction, for any value of Δh , may be determined from a chart included in § 73.699 as Figure 10e, with linear interpolation as necessary, for the frequency of the UHF signal under consideration. (Added 76-382, 5/1/77)

(l) *Alternatively, the terrain roughness correction may be computed using the following formula: (Added 76-382, 5/1/77)

$$\Delta F = C - 0.03(\Delta h)(1+f/300)$$

Where:

ΔF = terrain roughness correction in dB

C = a constant having a specific value for use with each set of field strength charts:

1.9 for TV Channels 2-6
2.5 for TV Channels 7-13
4.8 for TV Channels 14-69

Δh = terrain roughness factor in meters

f = frequency of signal in megahertz (MHz)

*EFFECTIVE DATE NOTE: In 42 FR 25736, May 19, 1977, the effective date of § 73.684(k) and (l) are stayed indefinitely.

[Next Page is No. 429]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.685 TRANSMITTER LOCATION AND ANTENNA SYSTEM.

(a) The transmitter location shall be chosen so that, on the basis of the effective radiated power and antenna height above average terrain employed, the following minimum field strength in dB above one uV/m will be provided over the entire principal community to be served: (Revised 80-165, 4/30/80)

Channels 2-6	Channels 7-13	Channels 14-83 <u>69</u>
74 dBu	77 dBu	80 dBu

(b) Location of the antenna at a point of high elevation is necessary to reduce to a minimum the shadow effect on propagation due to hills and buildings which may reduce materially the strength of the station's signals. In general, the transmitting antenna of a station should be located at the most central point at the highest elevation available. To provide the best degree of service to an area, it is usually preferable to use a high antenna rather than a low antenna with increased transmitter power. The location should be so chosen that line-of-site can be obtained from the antenna over the principal community to be served; in no event should there be a major obstruction in this path. The antenna must be constructed so that it is as clear as possible of surrounding buildings or objects that would cause shadow problems. It is recognized that topography, shape of the desired service area, and population distribution may make the choice of a transmitter location difficult. In such cases, consideration may be given to the use of a directional antenna system, although it is generally preferable to choose a site where a non-directional antenna may be employed.

(c) In cases of questionable antenna locations it is desirable to conduct propagation tests to indicate the field strength expected in the principal community to be served and in other areas, particularly where severe shadow problems may be expected. In considering applications proposing the use of such locations, the Commission may require site tests to be made. Such tests should be made in accordance with the measurement procedure in § 73.686, and full data thereon must be supplied to the Commission. Test transmitters should employ an antenna having a height as close as possible to the proposed antenna height, using a balloon or other support if necessary and feasible. Information concerning the authorization of site tests may be obtained from the Commission upon request.

(d) Present information is not sufficiently complete to establish "blanket areas" of television broadcast stations. A "blanket area" is that area adjacent to a transmitter in which the reception of other stations is subject to interference due to the strong signal from this station. The authorization of station construction in areas where blanketing is found to be excessive will be on the basis that the applicant will assume full responsibility for the adjustment of reasonable complaints arising from excessively strong signals of the applicant's station or take other corrective action.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(e) An antenna designed or altered to produce a noncircular radiation pattern in the horizontal plane is considered to be a directional antenna. Antennas purposely installed in such a manner as to result in the mechanical beam tilting of the major vertical radiation lobe are included in this category. Directional antennas may be employed for the purpose of improving service upon an appropriate showing of need. Stations operating on Channels 2-13 will not be permitted to employ a directional *antenna having a ratio of maximum to minimum radiation in the horizontal plane in excess of 10 dB. Stations operating on Channels 14-69 with transmitters delivering a peak visual power output of more than 1 kW may employ directive transmitting antennas with a maximum to minimum radiation in the horizontal plane of not more than 15 dB. Stations operating on Channels 14-69 and employing transmitters delivering a peak visual power output of 1 kW or less are not limited as to the ratio of maximum to minimum radiation. (Revised 83-333, 914/82)

(f) Applications proposing the use of directional antenna systems must be accompanied by the following:

- (1) Complete description of the proposed antenna system, including the manufacturer and model number of the proposed directional antenna.
- (2) ~~Orientation of array with respect to true north; time phasing of fields from elements (degree leading or lagging); space phasing of elements (in feet and degrees); and ratio of fields from elements.~~ Relative field horizontal plane pattern (horizontal polarization only) of the proposed directional antenna. A value of 1.0 should be used for the maximum radiation. The plot of the pattern should be oriented so that 0° corresponds to true North. Where mechanical beam tilt is intended, the amount of tilt in degrees of the antenna vertical axis and the orientation of the downward tilt with respect to true North shall be specified, and the horizontal plane pattern must reflect the use of mechanical beam tilt.
- (3) A tabulation of the relative field pattern required in paragraph (b)(2), of this section. The tabulation should use the same zero degree reference as the plotted pattern, and be tabulated at least every 10°. In addition, tabulated values of all maxima and minima, with their corresponding azimuths, should be submitted.

[Next Page is No. 430.1]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (4) Horizontal and vertical plane radiation patterns showing the effective radiated power, in dBk, for each direction. Sufficient vertical plane patterns must be included to indicate clearly the radiation characteristics of the antenna above and below the horizontal plane. In cases where the angles at which the maximum vertical radiation varies with azimuth, a separate vertical radiation pattern must be provided for each pertinent radial direction. (Revised 83-129, 6/13/83)
- (5) All horizontal plane patterns must be plotted to the largest scale possible on unglazed letter-size polar coordinate paper (main engraving approximately 18 cm x 25 cm (7 inches x 10 inches)) using only scale divisions and subdivisions of 1, 2, 2.5 or 5 times 10-nth. All vertical plane patterns must be plotted on unglazed letter-size rectangular coordinate paper. Values of field strength on any pattern less than 10% of the maximum field strength plotted on that pattern must be shown on an enlarged scale. (Revised 73-184, 9/24/93)
- (6) The horizontal and vertical plane patterns that are required are the patterns for the complete directional antenna system. In the case of a composite antenna composed of two or more individual antennas, this means that the patterns for the composite antenna, not the patterns for each of the individual antennas, must be submitted. (Added 83-129, 6/13/83)

(g) Applications proposing the use of television broadcast antennas within 61.0 meters (200 feet) of other television broadcast antennas operating on a channel within 20 percent in frequency of the proposed channel, or proposing the use of television broadcast antennas on Channels 5 or 6 within 61.0 meters (200 feet) of FM broadcast antennas, must include a showing as to the expected effect, if any, of such proximate operation. (Revised 6/5/85, Edit. Admt.)

(h) Where a TV licensee or permittee proposes to mount an antenna on an AM antenna tower, or locate within 3.2 km of an AM antenna tower, the TV licensee or permittee must comply with § 73.1692.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (1) In cases where it is proposed to use a tower of ~~a standard~~ an AM broadcast station as a supporting structure for a television broadcast antenna, an appropriate application for changes in the radiating system of the ~~standard AM~~ broadcast station must be filed by the licensee thereof. A formal application (FCC Form 301, or FCC Form 340 for a noncommercial educational station) will be required if the proposal involves substantial change in the physical height or radiation characteristics of the ~~standard AM~~ broadcast antennas; otherwise an informal application will be acceptable. (In case of doubt, an informal application (letter) together with complete engineering data should be submitted.) An application may be required for other classes of stations when the tower is to be used in connection with a television station.

[Next Page is No. 431]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (2) When the proposed TV antenna is to be mounted on a tower in the vicinity of an AM station directional antenna system and it appears that the operation of the directional antenna system may be affected, an engineering study must be filed with the TV application concerning the effect of the TV antenna on the AM directional radiation pattern. Field measurements of the AM station may be required prior to and following construction of the TV station antenna, and readjustments made as necessary. (Revised 78-788, 11/20/78)

73.686 FIELD STRENGTH MEASUREMENTS.

(a) Except as provided for in § 73.612, television broadcast stations shall not be protected from any type of interference or propagation effect. Persons desiring to submit testimony, evidence or data to the Commission for the purpose of showing that the technical standards contained in this subpart do not properly reflect the levels of any given type of interference or propagation effect may do so only in appropriate rule making proceedings concerning the amendment of such technical standards. Persons making field strength measurements for formal submission to the Commission in rulemaking proceedings, or making such measurements upon the request of the Commission, shall follow the procedure for making and reporting such measurements outlined in paragraph (b) of this section. In instances where a showing of the measured level of a signal prevailing over a specific community is appropriate, the procedure for making and reporting field strength measurements for this purpose is set forth in paragraph (c) of this section. (Added 75-636, 8/1/75)

(b) Collection of field strength data for propagation analysis. (Added 75-636, 8/1/75)

(1) PREPARATION FOR MEASUREMENTS.

- (i) On large scale topographic maps, eight or more radials are drawn from the transmitter location to the maximum distance at which measurements are to be made, with the angles included between adjacent radials of approximately equal size. Radials should be oriented so as to traverse representative types of terrain. The specific number of radials and their orientation should be such as to accomplish this objective. (Added 75-636, 8/1/75)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (ii) At a point exactly 16.1 kilometers (10 miles) from the transmitter, each radial is marked, and at greater distances at successive 3.2 kilometer (2 mile) intervals. Where measurements are to be conducted at UHF, or over extremely rugged terrain, shorter intervals may be employed, but all such intervals shall be of equal length. Accessible roads intersecting each radial as nearly as possible at each 3.2 kilometers (2 mile) marker are selected. These intersections are the points on the radial at which measurements are to be made, and are referred to subsequently as measuring locations. The elevation of each measuring location should approach the elevation at the corresponding 3.2 kilometer (2 mile) marker as nearly as possible. (Edit. Amdt. 6/5/85)

(2) MEASUREMENT PROCEDURE.

The field strength of the visual carrier shall be measured with a voltmeter capable of indicating accurately to the peak amplitude of the synchronizing signal. All measurements shall be made utilizing a receiving antenna designed for reception of the horizontally polarized signal component, elevated 9.1 meters (30 feet) above the roadbed. At each measuring location, the following procedure shall be employed: (Edit. Amdt. 6/5/85)

- (i) The instrument calibration is checked. (Added 75-636, 8/1/75)
- (ii) The antenna is elevated to a height of 30 feet. (Edit. Amdt. 6/5/85)
- (iii) The receiving antenna is rotated to determine if the strongest signal is arriving from the direction of the transmitter. (Added 75-636, 8/1/75)
- (iv) The antenna is oriented so that the sector of its response pattern over which the maximum gain is realized is the direction of the transmitter. (Added 75-636, 8/1/75)

[Next Page is No. 432.1]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (v) A mobile run of at least 30.5 meters (100 feet) is made, which is centered on the intersection of the radial and the road, and the measured field strength is continuously recorded on a chart recorder over the length of the run.
- (vi) The actual measuring location is marked exactly on the topographic map, and a written record, keyed to the specific location, is made of all factors which may affect the recorded field, such as topography, height and types of vegetation, buildings, obstacles, and weather, and other local features. (Added 75-636, 8/1/75)
- (vii) If, during the test conducted as described in paragraph (b)(2)(iii) above of this section, the strongest signal is found to come from a direction other than from the transmitter, after the mobile run prescribed in paragraph (b)(2)(v) of this section is concluded, additional measurements shall be made in a "cluster" of at least five fixed points. At each such point, the field strengths with the antenna oriented toward the transmitter, and with the antenna oriented so as to receive the strongest field, are measured and recorded. Generally, all points should be within 61.0 meters (200 feet) of the center point of the mobile run.
- (viii) If overhead obstacles preclude a mobile run of at least 30.5 meters (100 feet) a "cluster" of five spot measurements may be made in lieu of this run. The first measurement in the cluster is identified. Generally, the locations for other measurements shall be within 61.0 meters (200 feet) of the location of the first.

(3) METHOD OF REPORTING MEASUREMENTS.

A report of measurements to the Commission shall be submitted in affidavit form, in triplicate, and should contain the following information: (Added 75-636, 8/1/75)

- (i) Tables of field strength measurements, which, for each measuring location, set forth the following data: (Added 75-636, 8/1/75)
 - (A) Distance from the transmitting antenna. (Added 75-636, 8/1/75)
 - (B) Ground elevation at measuring location. (Added 75-636, 8/1/75)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (C) Date, time of day, and weather.
 - (D) Median field in dBu for 0 dBk, for mobile run or for cluster, as well as maximum and minimum measured field strengths.
 - (E) Notes describing each measuring location.
- (ii) U.S. Geological Survey topographic maps, on which is shown the exact location at which each measurement was made. The original plots shall be made on maps of the largest available scale. Copies may be reduced in size for convenient submission to the Commission, but not to the extent that important detail is lost. The original maps shall be made available, if requested. If a large number of maps is involved, an index map should be submitted.
 - (iii) All information necessary to determine the pertinent characteristics of the transmitting installation, including frequency, geographical coordinates of antenna site, rated and actual power output of transmitter, measured transmission line loss, antenna power gain, height of antenna above ground, above mean sea level, and above average terrain. The effective radiated power should be computed, and horizontal and vertical plane patterns of the transmitting antenna should be submitted.
 - (iv) A list of calibrated equipment used in the field strength survey, which, for each instrument, specifies its manufacturer, type, serial number and rated accuracy, and the date of its most recent calibration by the manufacturer, or by a laboratory. Complete details of any instrument not of standard manufacture shall be submitted.
 - (v) A detailed description of the calibration of the measuring equipment, including field strength meters, measuring antenna, and connecting cable.
 - (vi) Terrain profiles in each direction in which measure were made, drawn on curved earth paper for equivalent $4/3$ earth radius, of the largest available scale.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(c) Collection of field strength data to determine television service in specific communities. (Added 75-636, 8/1/75)

(1) PREPARATION FOR MEASUREMENT.

- (i) The population (P) of the community, and its suburbs, if any, is determined by reference to an appropriate source, e.g., the 1970 U.S. Census tables of population of cities and urbanized areas. (Added 75-636, 8/1/75)
- (ii) The number of locations at which measurements are to be made shall be at least 15, and shall be approximately equal to $0.1(P)1/2$, if this product is a number greater than 15. (Added 75-636, 8/1/75)
- (iii) A rectangular grid, of such size and shape as to compass the boundaries of the community is drawn on an accurate map of the community. The number of line intersections on the grid included within the boundaries of the community shall be at least equal to the required number of measuring locations. The position of each intersection on the community map determines the location at which a measurement shall be made. (Added 75-636, 8/1/75)

(2) MEASUREMENT PROCEDURE.

The field strength of the visual carrier shall be measured, with a voltmeter capable of indicating accurately the peak amplitude of the synchronizing signal. All measurements shall be made utilizing a receiving antenna designed for reception of the horizontally polarized signal component, elevated 9.1 meter (30 feet) above street level.

- (i) Each measuring location shall be chosen as close as feasible to a point indicated on the map, as previously prepared, and at as nearly the same elevation as that point as possible. (Added 75-636, 8/1/75)
- (ii) At each measuring location, after equipment calibration and elevation of the antenna, a check is made to determine whether the strongest signal arrives from a direction other than from the transmitter. (Added 75-636, 8/1/75)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (iii) At 20 percent or more of the measuring locations, mobile runs, as described in paragraph (b)(2) of this section shall be made, with no less than three such mobile runs in any case. The points at which mobile measurements are made shall be well separated. Spot measurements may be made at other measuring points.
- (iv) Each actual measuring location is marked exactly on the map of the community, and suitably keyed. A written record shall be maintained, describing, for each location, factors which may affect the recorded field, such as the approximate time of measurement, weather, topography, overhead wiring, heights and types of vegetation, buildings and other structures. The orientation, with respect to the measuring location shall be indicated of objects of such shape and size as to be capable of causing shadows or reflections. If the strongest signal received was found to arrive from a direction other than that of the transmitter, this fact shall be recorded.

(3) METHOD OF REPORTING MEASUREMENTS.

A report of measurements to the Commission shall be submitted in affidavit form, in triplicate, and should contain the following information:

- (i) A map of the community showing each actual measuring location, specifically identifying the points at which mobile runs were made.
- (ii) A table keyed to the above map, showing the field strength at each measuring point, reduced to dBu for the actual effective radiated power of the station. Weather, date, and time of each measurement shall be indicated.
- (iii) Notes describing each measuring location.
- (iv) A topographic map of the largest available scale on which are marked the community and the transmitter site of the station whose signals have been measured, which includes all areas on or near the direct path of signal propagation.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (v) Computations of the mean and standard deviation of all measured field strengths, or a graph on which the distribution of measured field strength values is plotted.
- (vi) A list of calibrated equipment used for the measurements, which for each instrument, specifies its manufacturer, type, serial number and rated accuracy, and the date of its most recent calibration by the manufacturer, or by a laboratory. Complete details of any instrument not of standard manufacture shall be submitted.
- (vii) A detailed description of the procedure employed in the calibration of the measuring equipment, including field strength meters measuring antenna, and connecting cable.

[Next Page is No. 433]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.687 TRANSMISSION SYSTEM REQUIREMENTS.

(a) VISUAL TRANSMITTER.

- (1) The field strength or voltage of the lower sideband, as radiated or dissipated and measured as described in ~~subparagraph (4) of this paragraph~~ paragraph (a)(2) of this section, shall not be greater than -20 dB for a modulating frequency of 1.25 MHz or greater and in addition, for color, shall not be greater than -42 dB for a modulating frequency of 3.579545 MHz (the color subcarrier frequency). For both monochrome and color, the field strength or voltage of the upper sideband as radiated or dissipated and measured as described in ~~subparagraph (4) of this paragraph~~ paragraph (a)(2) of this section shall not be greater than -20 dB for a modulating frequency of 4.75 MHz or greater. For stations operating on Channels 15-69 and employing a transmitter delivering maximum peak visual power output of 1 kW or less, the field strength or voltage of the upper and lower sidebands, as radiated or dissipated and measured as described in ~~subparagraph (4) of this paragraph~~ paragraph (a)(2) of this section, shall depart from the visual amplitude characteristic (Figure 5a of § 73.699) by no more than the following amounts:

- 2 dB at 0.5 MHz below visual carrier frequency;
- 2 dB at 0.5 MHz above visual carrier frequency;
- 2 dB at 1.25 MHz above visual carrier frequency;
- 3 dB at 2.0 MHz above visual carrier frequency;
- 6 dB at 3.0 MHz above visual carrier frequency;
- 12 dB at 3.5 MHz above visual carrier frequency;
- 8 dB at 3.58 MHz above visual carrier frequency (for color transmission only).

The field strength or voltage of the upper and lower sidebands, as radiated or dissipated and measured as described in ~~subparagraph (4) of this paragraph~~ paragraph (a)(2) of this section, shall not exceed a level of -20 dB for a modulating frequency of 4.75 MHz or greater. If interference to the reception of other stations is caused by out-of-channel lower sideband emission, the technical requirements applicable to stations operating on Channels 2-13 shall be met.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (2) The attenuation characteristics of a visual transmitter shall be measured by application of a modulating signal to the transmitter input terminals in place of the normal composite television video signal. The signal applied shall be a composite signal composed of a synchronizing signal to establish peak output voltage plus a variable frequency sine wave voltage occupying the interval between synchronizing pulses. (The "synchronizing signal" referred to in this section means either a standard synchronizing wave form or any pulse that will properly set the peak.) The axis of the sine wave in the composite signal observed in the output monitor shall be maintained at an amplitude 0.5 of the voltage at synchronizing peaks. The amplitude of the sine wave input shall be held at a constant value. This constant value should be such that at no modulating frequency does the maximum excursion of the sine wave, observed in the composite output signal monitor, exceed the value 0.75 of peak output voltage. The amplitude of the 200 kHz sideband shall be measured and designated zero dB as a basis for comparison. The modulation signal frequency shall then be varied over the desired range and the field strength or signal voltage of the corresponding sidebands measured. As an alternate method of measuring, in those cases in which the automatic d-c insertion can be replaced by manual control, the above characteristic may be taken by the use of a video sweep generator and without the use of pedestal synchronizing pulses. The d-c level shall be set for midcharacteristic operation. (Added 84-521, 12/7/84)
- (3) A sine wave, introduced at those terminals of the transmitter which are normally fed the composite color picture signal, shall produce a radiated signal having an envelope delay, relative to the average envelope delay between 0.05 and 0.20 MHz, of zero microseconds up to a frequency of 3.0 MHz; and then linearly decreasing to 4.18 MHz so as to be equal to $-0.17 \mu\text{secs}$ at 3.58 MHz. The tolerance on the envelope delay shall be $\pm 0.05 \mu\text{secs}$ at 3.58 MHz. The tolerance shall increase linearly to $\pm 0.1 \mu\text{sec}$ down to 2.1 MHz, and remain at $\pm 0.1 \mu\text{sec}$ down to 0.2 MHz. (Tolerances for the interval of 0.0 to 0.2 MHz are not specified at the present time.) The tolerance shall also increase linearly to $\pm 0.1 \mu\text{sec}$ at 4.18 MHz. (Added 84-521, 12/7/84)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (4) The radio frequency signal, as radiated, shall have an envelope as would be produced by a modulating signal in conformity with § 73.682 and Figure 6 or 7 of § 73.699, as modified by vestigial sideband operation specified in Figure 5 of § 73.699. For stations operating on Channels 15-69 the radio frequency signal as radiated, shall have an envelope as would be produced by a modulating signal in conformity with § 73.682 and Figure 6 or 7 of § 73.699.*
- (5) The time interval between the leading edges of successive horizontal pulses shall vary less than one half of one percent of the average interval. However, for color transmissions, § 73.682(a)(5) and (6) shall be controlling.*
- (6) The rate of change of the frequency of recurrence of the leading edges of the horizontal synchronizing signals shall not be greater than 0.15 percent per second, the frequency to be determined by an averaging process carried out over a period of not less than 20, nor more than 100 lines, such lines not to include any portion of the blanking interval. However, for color transmissions, § 73.682(a)(5) and (6) shall be controlling.*

(b) AURAL TRANSMITTER.

- (1) Pre-emphasis shall be employed as closely as practicable in accordance with the impedance-frequency characteristic of a series inductance-resistance network having a time constant of 75 microseconds. (See upper curve of Figure 12 § 73.699.)*
- (2) If a limiting or compression amplifier is employed, precaution should be maintained in its connection in the circuit due to the use of pre-emphasis in the transmitting system.*
- (3) Aural modulation levels are specified in § 73.1570.*

(c) REQUIREMENTS APPLICABLE TO BOTH VISUAL AND AURAL TRANSMITTERS.

- (1) Automatic means shall be provided in the visual transmitter to maintain the carrier frequency within ± 1 kHz of the authorized frequency; automatic means shall be provided in the aural transmitter to maintain the carrier frequency 4.5 mHz above the actual visual carrier frequency within ± 1 kHz.
- (2) The transmitters shall be equipped with suitable indicating instruments for the determination of operating power and with other instruments necessary for proper adjustment, operation, and maintenance of the equipment.

(*Added 84-521, 12/7/84)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (3) Adequate provision shall be made for varying the output power of the transmitters to compensate for excessive variations in line voltage or for other factors affecting the output power.
- (4) Adequate provisions shall be provided in all component parts to avoid overheating at the rated maximum output powers.

(d) The construction, installation, and operation of broadcast equipment is expected to conform with all applicable local, state, and federally imposed safety regulations and standards, enforcement of which is the responsibility of the issuing regulatory agency. (Revised 89-43, 4/13/89)

(e) **OPERATION.**

- (1) Spurious emissions, including radio frequency harmonics, shall be maintained at as low a level as the state of the art permits. As measured at the output terminals of the transmitter (including harmonic filters, if required) all emissions removed in frequency in excess of 3 MHz above or below the respective channel edge shall be attenuated no less than 60 dB below the visual transmitted power. (The 60 dB value for television transmitters specified in this rule should be considered as a temporary requirement which may be increased at a later date, especially when more higher-powered equipment is utilized. Stations should, therefore, give consideration to the installation of equipment with greater attenuation than 60 dB.) In the event of interference caused to any service greater attenuation will be required. (Revised 89-43, 4/13/89)
- (2) If a limiting or compression amplifier is used in conjunction with the aural transmitter, due operating precautions should be maintained because of pre-emphasis in the transmitting system. (Revised 89-43, 4/13/89)
- (3) TV broadcast stations operating on Channel 14 and Channel 69 must take special precautions to avoid interference to adjacent spectrum land mobile radio service facilities. Where a TV station is authorized and operating prior to the authorization and operation of the land mobile facility, a Channel 14 station must attenuate its emissions within the frequency range 467 to 470 MHz and a Channel 69 station must attenuate its emissions within the frequency range 806 to 809 MHz if necessary to permit reasonable use of the adjacent frequencies by land mobile licensees. (Added 91-241, 10/15/91)

[Next Page is No. 436.1]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (4) The requirements listed below apply to permittees authorized to construct a new station on TV Channel 14 or TV Channel 69, and to licensees authorized to change the channel of an existing station to Channel 14 or to Channel 69, to increase effective radiated power (ERP) (including any change in directional antenna characteristics that results in an increase in ERP in any direction), or to change the transmitting location of an existing station. (Added 91-241, 10/15/91)
- (i) For the purposes of this paragraph, a protected land mobile facility is a receiver that is intended to receive transmissions from licensed land mobile stations within the frequency band below 470 MHz (as relates to Channel 14) or above 806 MHz (as relates to Channel 69), and is associated with one or more land mobile stations for which a license has been issued by the Commission, or a proper application has been received by the Commission prior to the date of the filing of the TV construction permit application. However, a land mobile facility will not be protected if it is proposed in an application that is denied or dismissed and that action is no longer subject to Commission review. Further, if the land mobile station is not operating when the TV facility commences operation and it does not commence operation within the time permitted by its authorization in accordance with part 90 of this chapter, it will not be protected. (Added 91-241, 10/15/91)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (ii) A TV permittee must take steps before construction to identify potential interference to normal land mobile operation that could be caused by TV emissions outside the authorized channel, land mobile receiver desensitization or intermodulation. It must install filters and take other precautions as necessary, and submit evidence that no interference is being caused before it will be permitted to transmit programming on the new facilities pursuant to the provisions of § 73.1615 or § 73.1620 of this part. A TV permittee must reduce its emissions within the land mobile channel of a protected land mobile facility that is receiving interference caused by the TV emission producing a vertically polarized signal and a field strength in excess of 17 dBu at the land mobile receiver site on the land mobile frequency. The TV emission should be measured with equipment set to a 30 kHz measurement bandwidth including the entire applicable land mobile channel. A TV permittee must correct a desensitization problem if its occurrence can be directly linked to the start of the TV operation and the land mobile station is using facilities with typical desensitization rejection characteristics. A TV permittee must identify the source of an intermodulation product that is generated when the TV operation commences. If the intermodulation source is under its control, the TV permittee must correct the problem. If the intermodulation source is beyond the TV permittee's control, it must cooperate in the resolution of the problem and should provide whatever technical assistance it can. (Added 91-241, 10/15/91)

73.688 INDICATING INSTRUMENTS.

(a) Each TV broadcast station shall be equipped with indicating instruments which conform with the specifications described in § 73.1215 for measuring the operating parameters of the last radio stage of the visual transmitter, and with such other instruments as are necessary for the proper adjustment, operation, and maintenance of the visual transmitting system. (Edit. Amdt., 6/27/85)

[Next Page is No. 437]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(b) The function of each instrument shall be clearly and permanently shown on the instrument itself or on the panel immediately adjacent thereto. (Edit. Amdt. 12/26/84)

(c) In the event that any one of these indicating instruments becomes defective, when no substitute which conforms with the required specifications is available, the station may be operated without the defective instrument pending its repair or replacement for a period not in excess of 60 days without further authority of the FCC: Provided, that:

- (1) If the defective instrument is the transmission line meter used for determining the output power by the direct method, the operating power shall be determined or maintained by the indirect method whenever possible or by using the operating parameters of the last radio stage of the transmitter during the time the station is operated without the transmission line meter. (Edit. Amdt. 12/26/84)
- (2) If conditions beyond the control of the licensee prevent the restoration of the meter to service within the above allowed period, informal request in accordance with § 73.3549 may be filed with the Engineer in Charge of the radio district in which the station is located for such additional time as may be required to complete repairs of the defective instrument. (Edit. Amdt. 12/26/84)

73.691 VISUAL MODULATION MONITORING.

(a) Each TV station must have measuring equipment for determining that the transmitted visual signal conforms to the provisions of this subpart. The licensee shall decide the monitoring and measurement methods or procedures for indicating and controlling the visual signal.

(b) In the event technical problems make it impossible to operate in accordance with the timing and carrier level tolerance requirements of § 73.682(a)(9)(i), (a)(9)(ii), (a)(12), (a)(13), and (a)(17), a TV broadcast station may operate at variance for a period of not more than 30 days without specific authority from the FCC: *provided that*, the date and time of the initial out-of-tolerance condition has been entered in the station log. If the operation at variance will exceed 10 consecutive days, a notification must be sent to the FCC in Washington, D.C., not later than the 10th day of such operation. In the event normal operation is resumed prior to the end of the 30 day period, the licensee must notify the FCC upon restoration of normal operation. If causes beyond the control of the licensee prevent restoration of normal operation within 30 days, a written request must be made to the FCC in Washington, D.C., no later than the 30th day for such additional time as may be necessary.

73.692 [RESERVED] (80-165, 4/30/80)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

*73.698 TABLES.

EDITOR'S NOTE: Section 73.698 Table I is removed and reserved as of April 13, 1989.

TABLE II

(1) Chan- nel	(2)-31.4 kilometers (19.5 miles) if beat	(3)-31.4 kilometers (19.5 miles) intermod- ulation	(4)-87.7 kilometers (54.5 miles) adjacent channel	(5)-95.7 kilometers (59.5 miles) oscillator	(6)-95.7 kilometers (59.5 miles) sound image	(7)-119.9 kilometers (74.5 miles) picture image
14	22	16-19	15	21	28	29
15	23	17-20	14,16	22	29	30
16	24	14,18-21	15,17	23	30	31
17	25	14-15,19-22	16,18	24	31	32
18	26	14-16,20-23	17,19	25	32	33
19	27	14-17,21-24	18,20	26	33	34
20	28	15-18,22-25	19,21	27	34	35
21	29	16-19,23-26	20,22	28,14	35	36
22	30,14	17-20,24-27	21,23	29,15	36	37
23	31,15	18-21,25-28	22,24	30,16	37	38
24	32,16	19-22,26-29	23,25	31,17	38	39
25	33,17	20-23,27-30	24,26	32,18	39	40
26	34,18	21-24,28-31	25,27	33,19	40	41
27	35,19	22-25,29-32	26,28	34,20	41	42
28	36,20	23-26,30-33	27,29	35,21	42,14	43
29	37,21	24-27,31-34	28,30	36,22	43,15	44,14
30	38,22	25-28,32-35	29,31	37,23	44,16	45,15
31	39,23	26-29,33-36	30,32	38,24	45,17	46,16
32	40,24	27-30,34-37	31,33	39,25	46,18	47,17
33	41,25	28-31,35-38	32,34	40,26	47,19	48,18
34	42,26	29-32,36-39	33,35	41,27	48,20	49,19
35	43,27	30-33,37-40	34,36	42,28	49,21	50,20
36	44,28	31-34,38-41	35,37	43,29	50,22	51,21
37	45,29	32-35,39-42	36,38	44,30	51,23	52,22
38	46,30	33-36,40-43	37,39	45,31	52,24	53,23
39	47,31	34-37,41-44	38,40	46,32	53,25	54,24
40	48,32	35-38,42-45	39,41	47,33	54,26	55,25
41	49,33	36-39,43-46	40,42	48,34	55,27	56,26
42	50,34	37-40,44-47	41,43	49,35	56,28	57,27
43	51,35	38-41,45-48	42,44	50,36	57,29	58,28
44	52,36	39-42,46-49	43,45	51,37	58,30	59,29
45	53,37	40-43,47-50	44,46	52,38	59,31	60,30

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

TABLE II (Cont'd)

(1) Chan- nel	(2)-31.4 kilometers (19.5 miles) if beat	(3)-31.4 kilometers (19.5 miles) intermod- ulation	(4)-87.7 kilometers (54.5 miles) adjacent channel	(5)-95.7 kilometers (59.5 miles) oscillator	(6)-95.7 kilometers (59.5 miles) sound image	(7)-119.9 kilometers (74.5 miles) picture image
46	54,38	41-44,48-51	45,47	53,39	60,32	61,31
47	55,39	42-45,49-52	46,48	54,40	61,33	62,32
48	56,40	43-46,50-53	47,49	55,41	62,34	63,33
49	57,41	44-47,51-54	48,50	56,42	63,35	64,34
50	58,42	45-48,52-55	49,51	57,43	64,36	65,35
51	59,43	46-49,53-56	50,52	58,44	65,37	66,36
52	60,44	47-50,54-57	51,53	59,45	66,38	67,37
53	61,45	48-51,55-58	52,54	60,46	67,39	68,38
54	62,46	49-52,56-59	53,55	61,47	68,40	69,39
55	63,47	50-53,57-60	54,56	62,48	69,41	70,40
56	64,48	51-54,58-61	55,57	63,49	70,42	71,41
57	65,49	52-55,59-62	56,58	64,50	71,43	72,42
58	66,50	53-56,60-63	57,59	65,51	72,44	73,43
59	67,51	54-57,61-64	58,60	66,52	73,45	74,44
60	68,52	55-58,62-65	59,61	67,53	74,46	75,45
61	69,53	56-59,63-66	60,62	68,54	75,47	76,46
62	70,54	57-60,64-67	61,63	69,55	76,48	77,47
63	71,55	58-61,65-68	62,64	70,56	77,49	78,48
64	72,56	59-62,66-69	63,65	71,57	78,50	79,49
65	73,57	60-63,67-70	64,66	72,58	79,51	80,50
66	74,58	61-64,68-71	65,67	73,59	80,52	81,51
67	75,59	62-65,69-72	66,68	74,60	81,53	82,52
68	76,60	63-66,70-73	67,69	75,61	82,54	83,53
69	77,61	64-67,71-74	68,70	76,62	83,55	54

NOTE: *The parenthetical reference beneath the mileage figures in columns 2 through 7, inclusive, indicate, in abbreviated form, the bases for the required mileage separations. For a discussion of these bases, see the "Sixth Report and Order" of the Commission (FCC 52-294; 17 F.R. 3905, May 2, 1952). The hyphenated numbers listed in column (3) are both inclusive.*

[Next Page is No. 465]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.699 TV ENGINEERING CHARTS.

*This section consists of the following Figures 1-5, 5a, 6-10, 10a-10e, 11-12, 13-16. (Revised 79-369, 7/2/79)

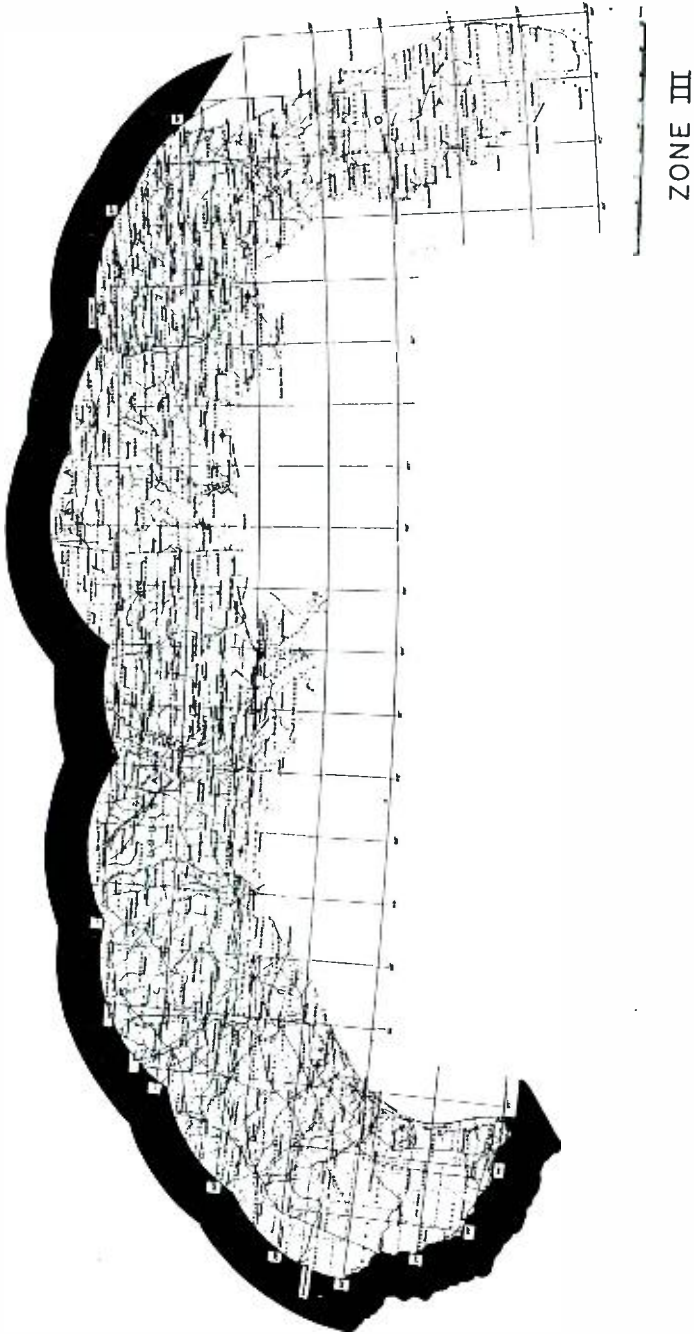
EDITOR'S NOTE: Section 73.699 is amended by removing Figure 3 and Figure 4; and revising Figures 9, 9a, 10, 10a, 10b, 10c, and 10d.

NOTE: The charts as reproduced herein, due to their small scale, are not to be used in connection with material submitted to the FCC. (Edit. Amdt. 6/5/85)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

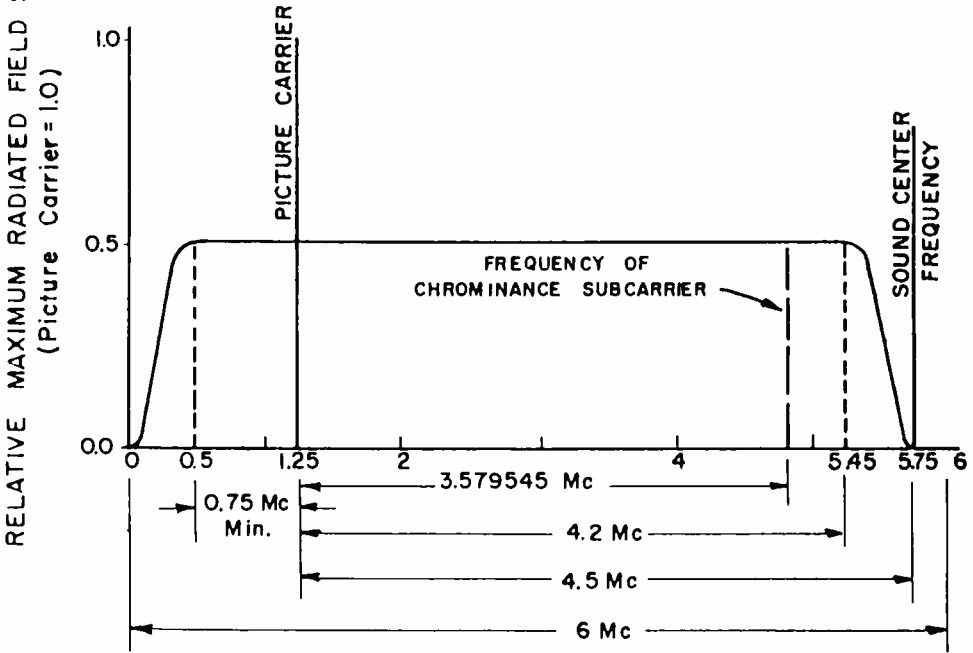


FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73



FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

IDEALIZED PICTURE TRANSMISSION
AMPLITUDE CHARACTERISTIC



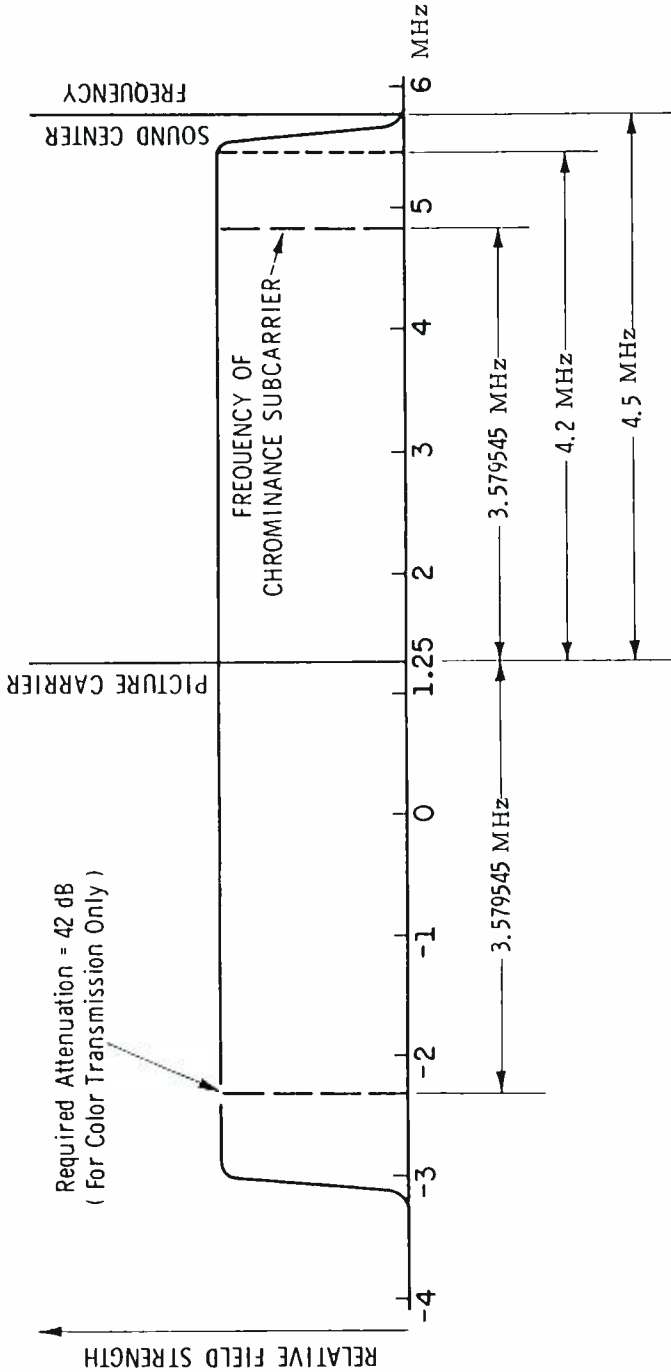
Note: Not drawn to scale

FIGURE 5

[Next Page is No. 473]

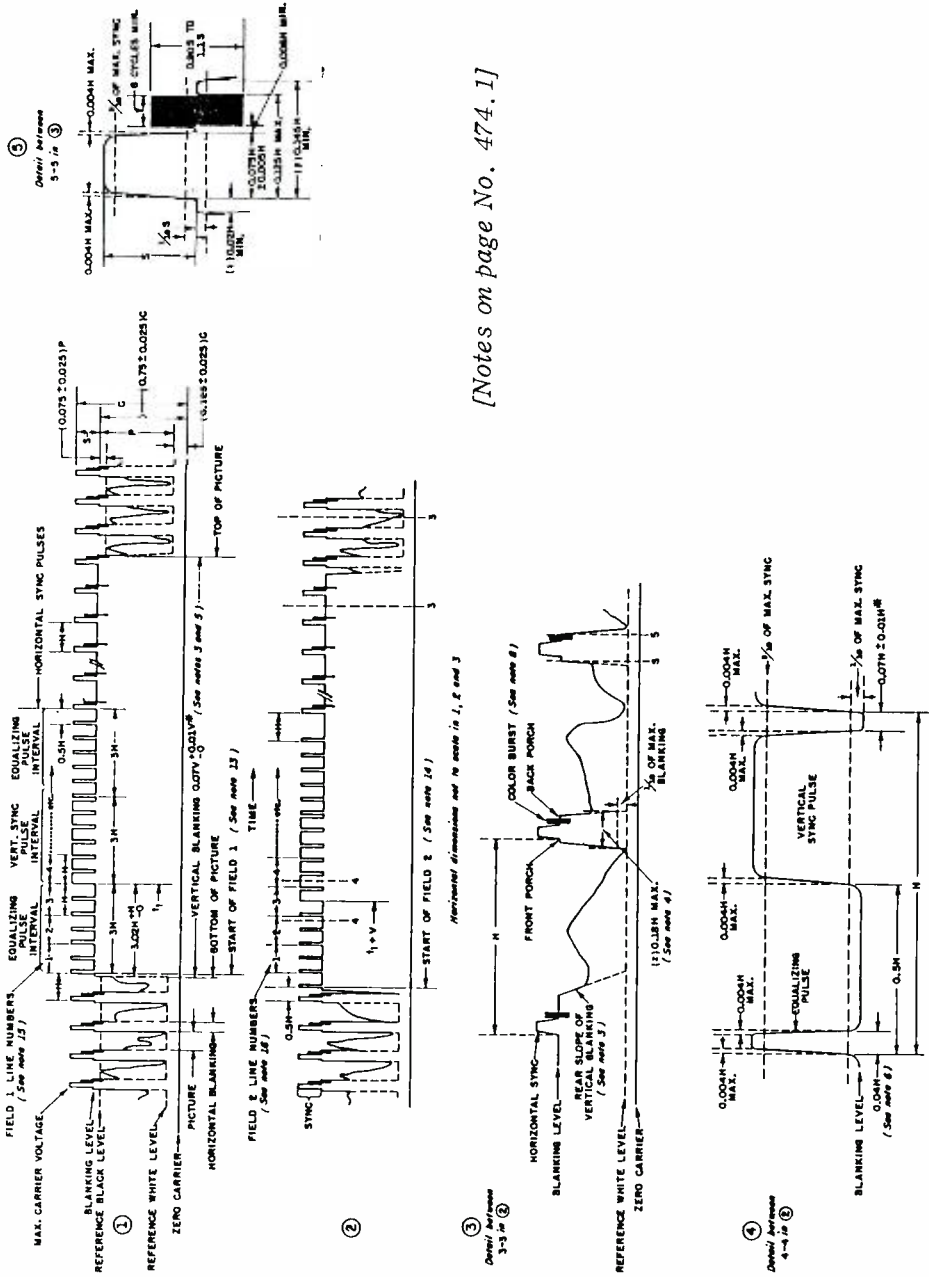
FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

IDEALIZED PICTURE TRANSMISSION
AMPLITUDE CHARACTERISTIC



FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

TELEVISION SYNCHRONIZING WAVEFORM
FOR COLOR TRANSMISSION



[Notes on page No. 474.1]

[Next Page is No. 474.1]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

FIGURE 6 NOTES

1. H = Time from start of one line to start of next line.
2. V = Time from start of one field to start of next field.
3. Leading and trailing edges of vertical blanking should be complete in less than 0.1H.
4. Leading and trailing slopes of horizontal blanking must be steep enough to preserve minimum and maximum values of (x+y) and (z) under all conditions of picture content.
- *5. Dimensions marked with asterisk indicate that tolerances given are permitted only for long time variations and not for successive cycles.
6. Equalizing pulse duration must be between 0.45 and 0.55 of the duration of the horizontal synchronizing pulse. (Revised 79-369, 7/2/79)
7. Color burst follows each horizontal pulse, but is omitted following the equalizing pulses and during the broad vertical pulses.
8. It is recommended that color bursts ~~signal~~ be omitted during monochrome transmission.
9. The burst frequency shall be 3.579545 MHz. The tolerance on the frequency shall be ± 10 Hz with a maximum rate of change of frequency not to exceed 1/10 Hz per second. (Edit. Amdt. 4/10/87)
10. The horizontal scanning frequency shall be $\frac{2}{455}$ times the burst frequency.
11. The dimensions specified for the burst determine the times of starting and stopping the burst, but not its phase. The color burst consists of amplitude modulation of a continuous sine wave.
12. Dimension "P" represents the peak excursion of the luminance signal from blanking level, but does not include the chrominance signal. Dimension "S" is the sync amplitude above blanking level. Dimension "C" is the peak carrier amplitude.
13. Start of Field 1 is defined by a whole line between first equalizing pulse and preceding H sync pulses.
14. Start of Field 2 is defined by a half line between first equalizing pulse and preceding H sync pulses.
15. Field 1 line numbers start with first equalizing pulse in Field 1.
16. Field 2 line numbers start with second equalizing pulse in Field 2.
17. Refer to text for further explanations and tolerances.
18. During color transmissions, the chrominance component of the picture signal may penetrate the synchronizing region and the color burst penetrates the picture region. (Added 79-369, 7/2/79)
19. Maximum horizontal and vertical blanking intervals are recommended values only. (Added 85-123, 3/14/85)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

FIGURE 7 NOTES

1. H = Time from start of one line to start of next line.
2. V = Time from start of one field to start of next field.
3. Leading and trailing edges of vertical blanking should be complete in less than 0.1H.
4. Leading and trailing slopes of horizontal blanking must be steep enough to preserve minimum and maximum values of (x+y) and (z) under all conditions of picture content.
- *5. Dimensions marked with asterisk indicate that tolerances given are permitted only for long time variations and not for successive cycles.
6. Equalizing pulse duration must be between 0.45 and 0.55 of the duration of the horizontal synchronizing the pulse duration. (Revised 79-369, 7/2/79)
7. Start of Field 1 is defined by a whole line between first equalizing pulse and preceding H sync pulses.
8. Start of Field 2 is defined by a half line between first equalizing pulse and preceding H sync pulses.
9. Field 1 line numbers start with first equalizing pulse in Field 1.
10. Field 2 line numbers start with second equaling pulse in Field 2.
11. Refer to text for further explanations and tolerances.
12. Maximum horizontal and vertical blanking intervals are recommended values only.

[Next Page is No. 475]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

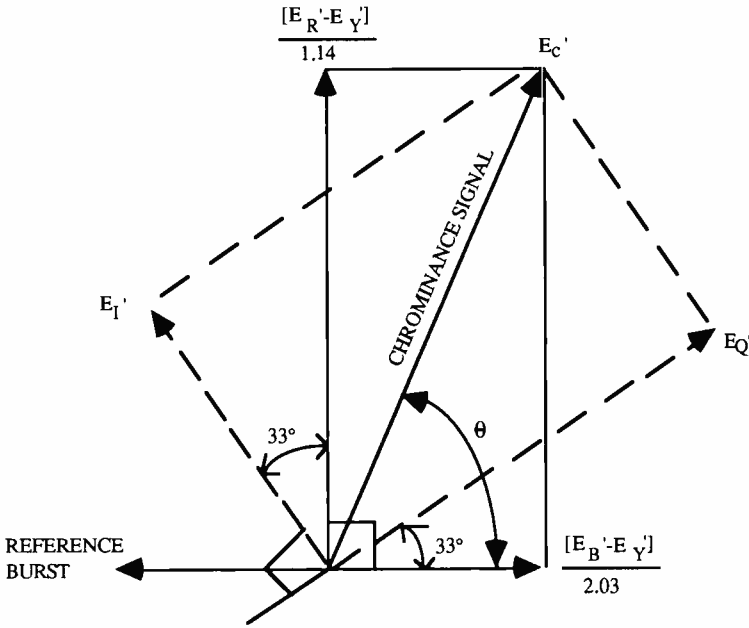
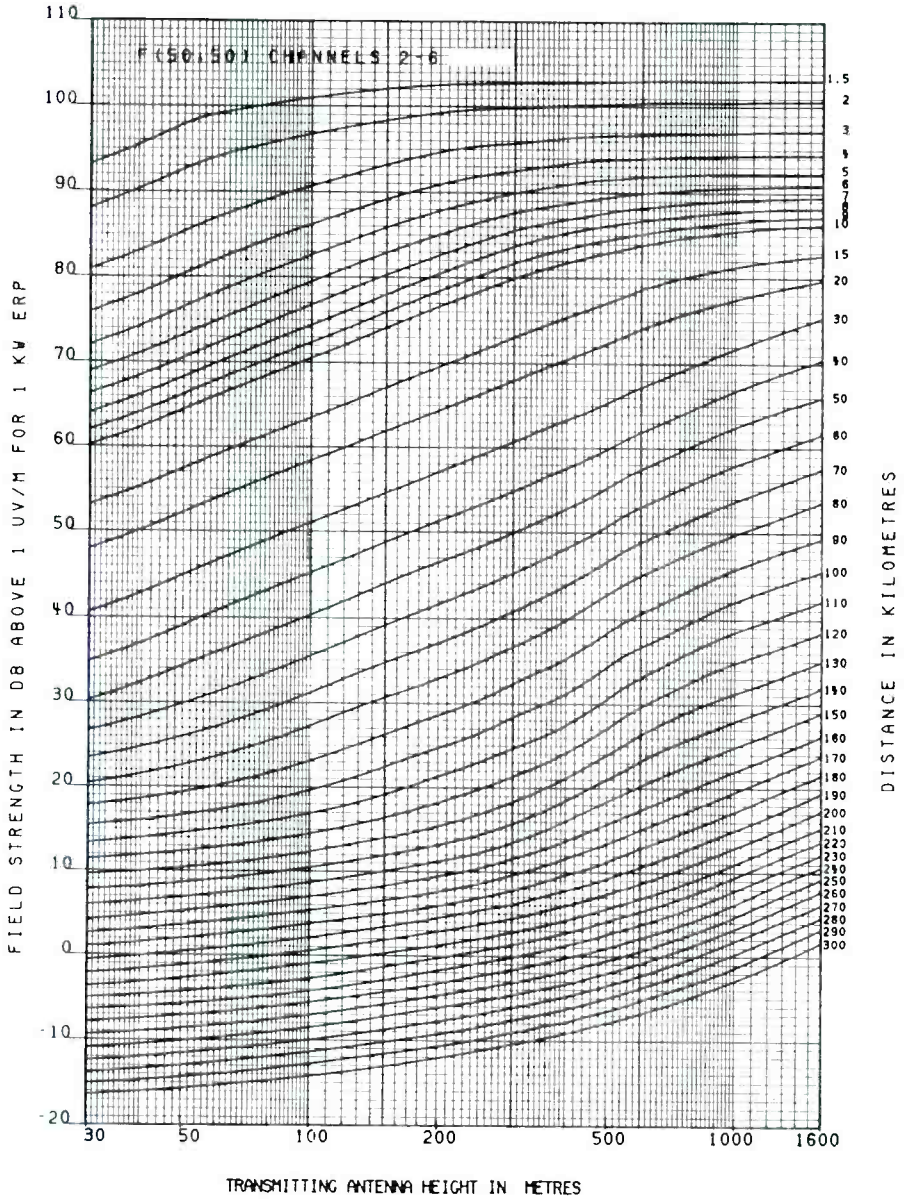


FIGURE 8

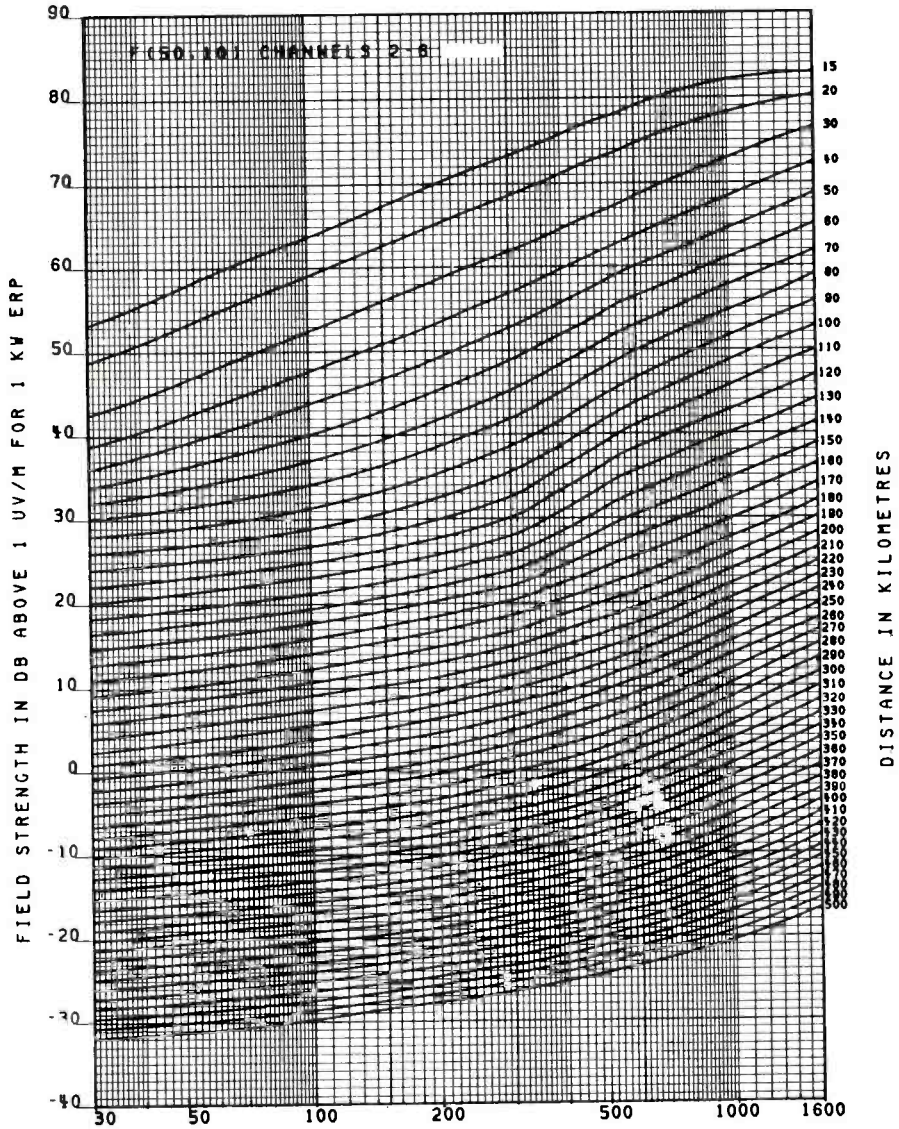
FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73



FCC 73.699 Figure 9

ESTIMATED FIELD STRENGTH EXCEEDED AT 50 PERCENT OF THE POTENTIAL RECEIVER LOCATIONS FOR AT LEAST 50 PERCENT OF THE TIME AT A RECEIVING ANTENNA HEIGHT OF 9 METERS.

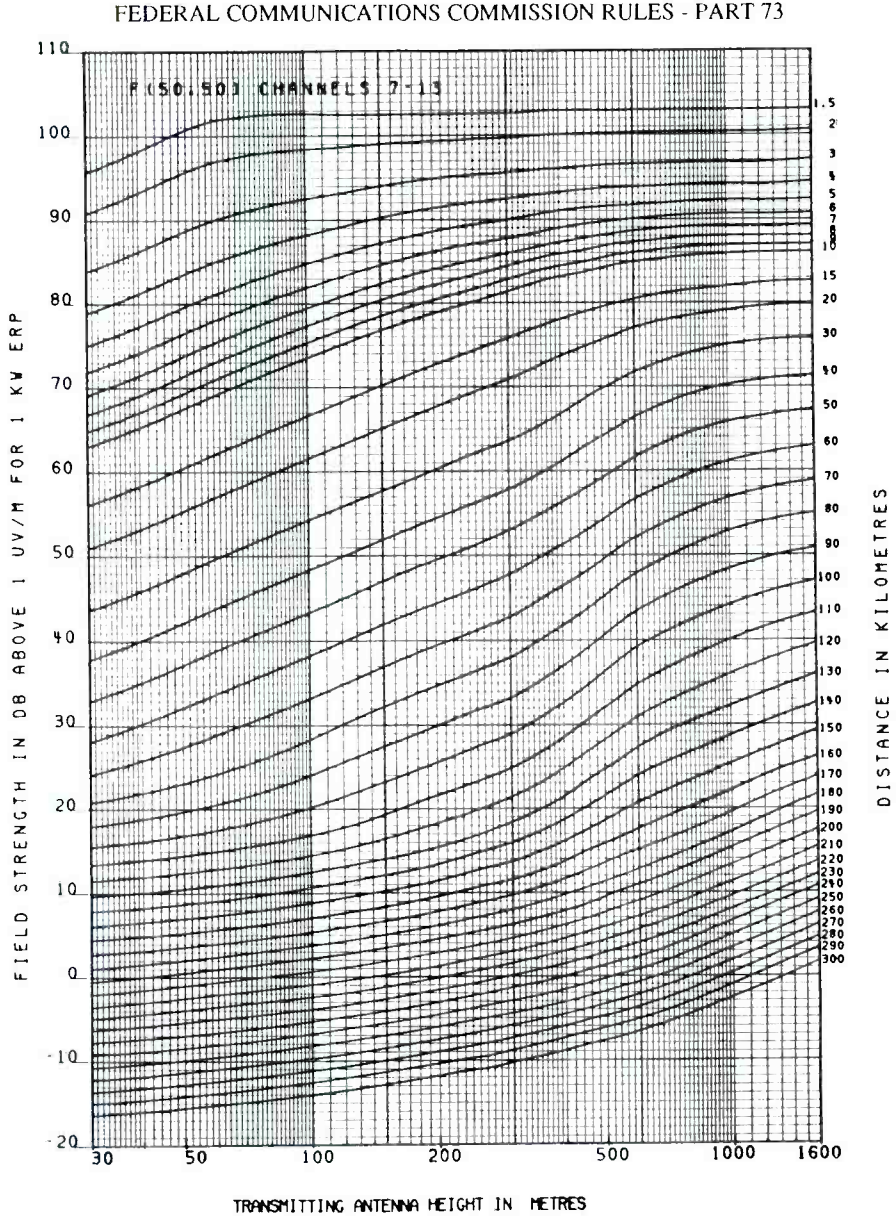
FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73



FCC 73.699 FIGURE 9a TRANSMITTING ANTENNA HEIGHT IN METRES

ESTIMATED FIELD STRENGTH EXCEEDED AT 50 PERCENT OF THE POTENTIAL RECEIVER LOCATIONS FOR AT LEAST 50 PERCENT 10 PERCENT* OF THE TIME AT A RECEIVING ANTENNA HEIGHT OF 9 METERS.

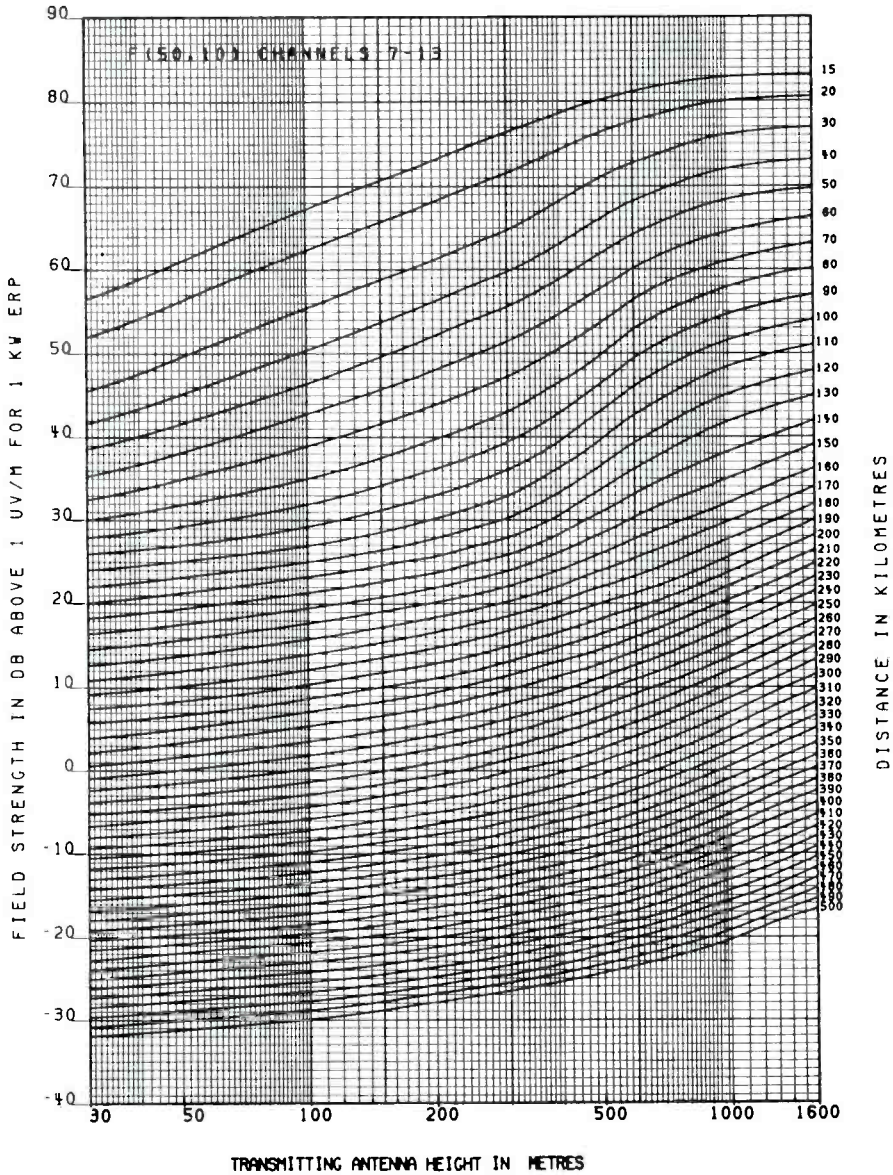
[Next Page is No. 478.1]



FCC 73.699 FIGURE 10

ESTIMATED FIELD STRENGTH EXCEEDED AT 50 PER CENT OF THE POTENTIAL RECEIVER LOCATIONS FOR AT LEAST 50 PERCENT OF THE TIME AT A RECEIVING ANTENNA HEIGHT OF 9 METERS.

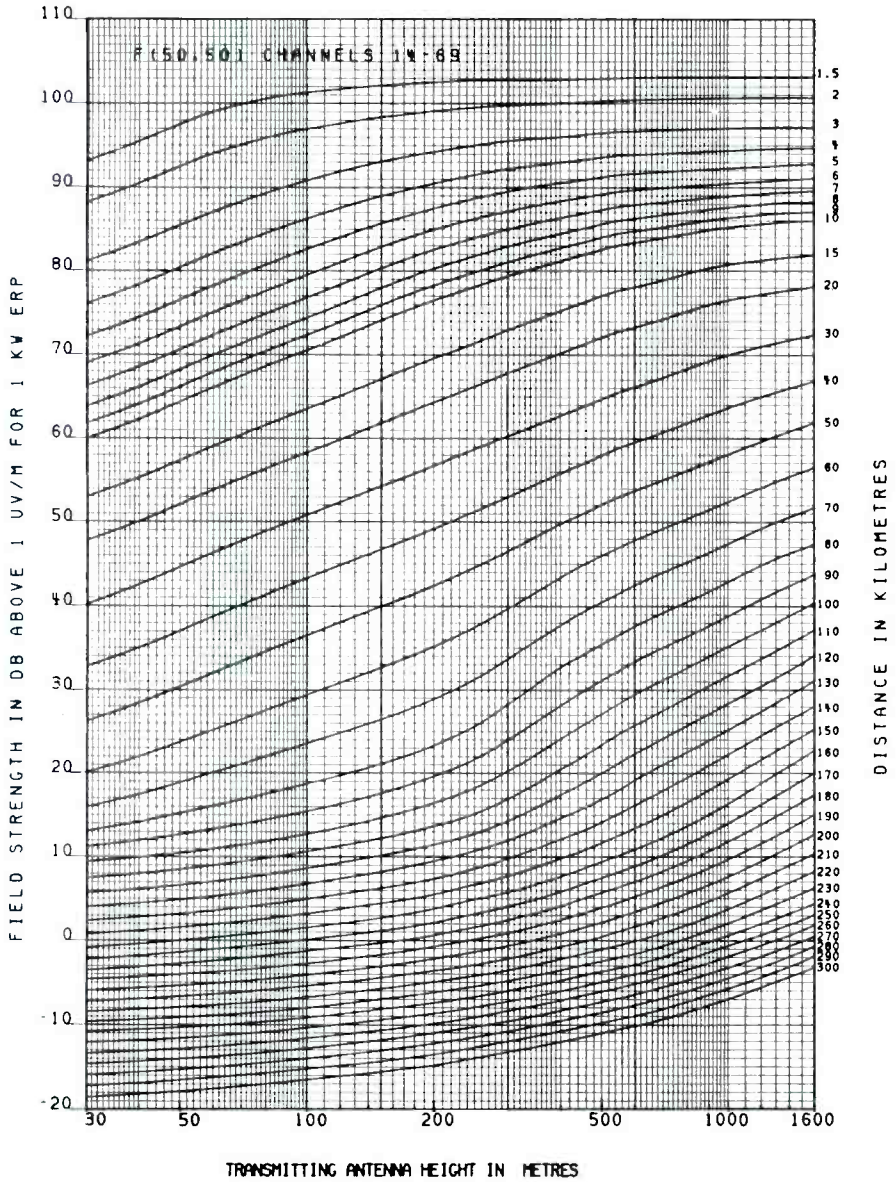
FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73



FCC 73.699 FIGURE 10a

ESTIMATED FIELD STRENGTH EXCEEDED AT 50 PERCENT OF THE POTENTIAL RECEIVER LOCATIONS FOR AT LEAST 50 PERCENT 10 PERCENT* OF THE TIME AT A RECEIVING ANTENNA HEIGHT OF 9 METERS

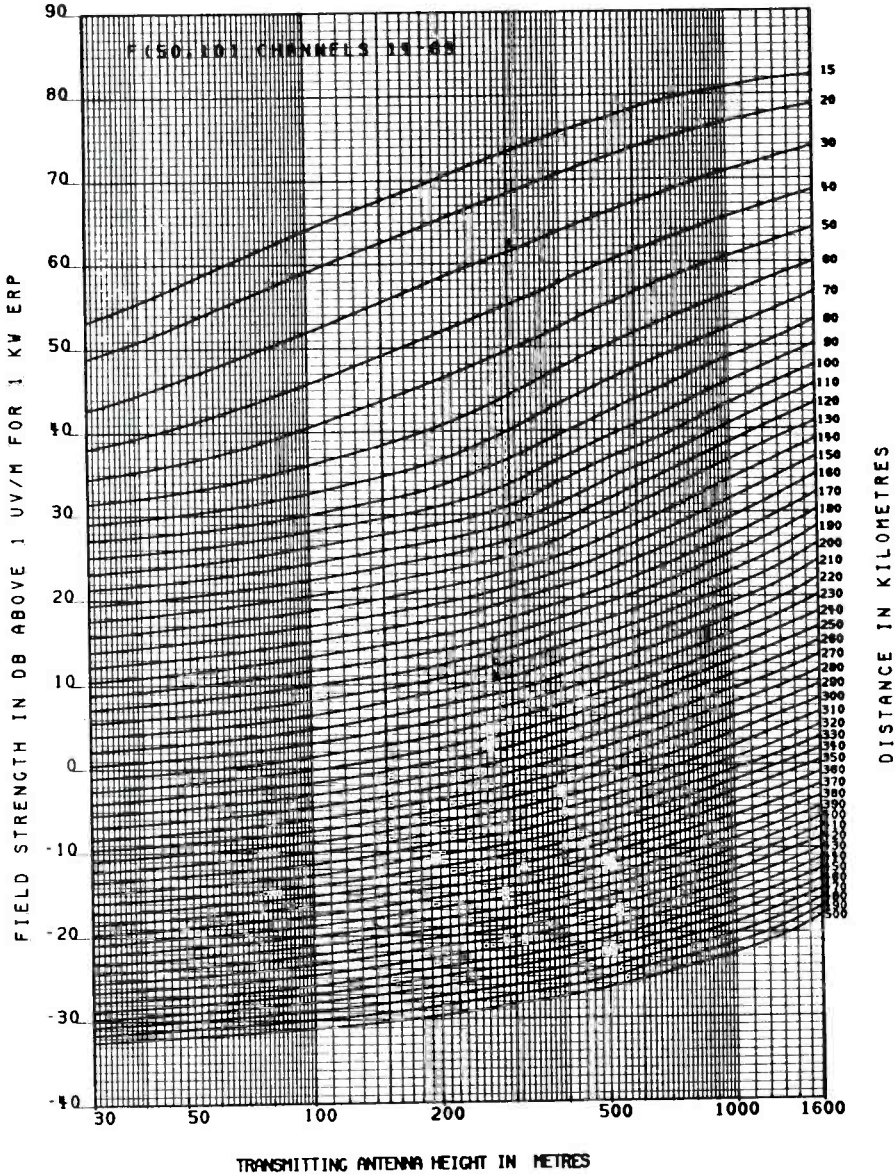
FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73



FCC 73.699 FIGURE 10b

ESTIMATED FIELD STRENGTH EXCEEDED AT 50 PERCENT OF THE POTENTIAL RECEIVER LOCATIONS FOR AT LEAST 50 PERCENT OF THE TIME AT A RECEIVING ANTENNA HEIGHT OF 9 METRES

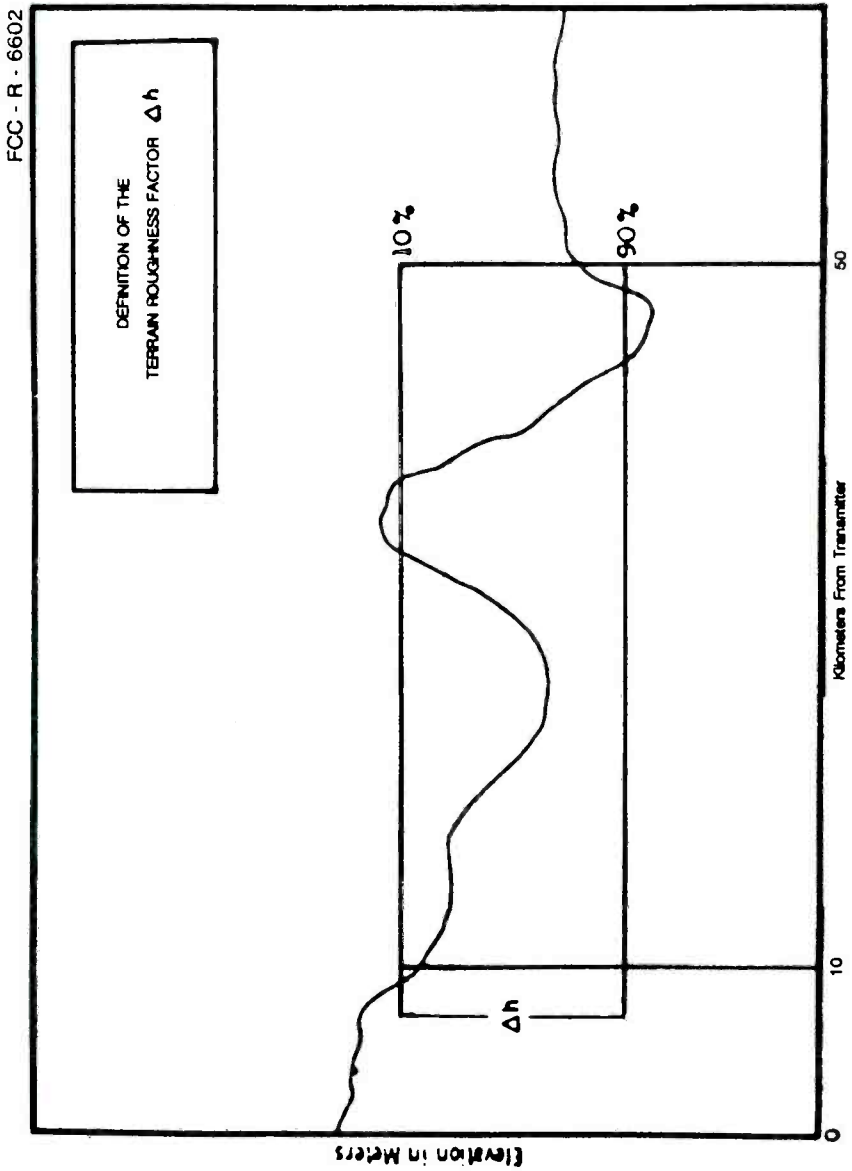
FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73



FCC 73.699 FIGURE 10c

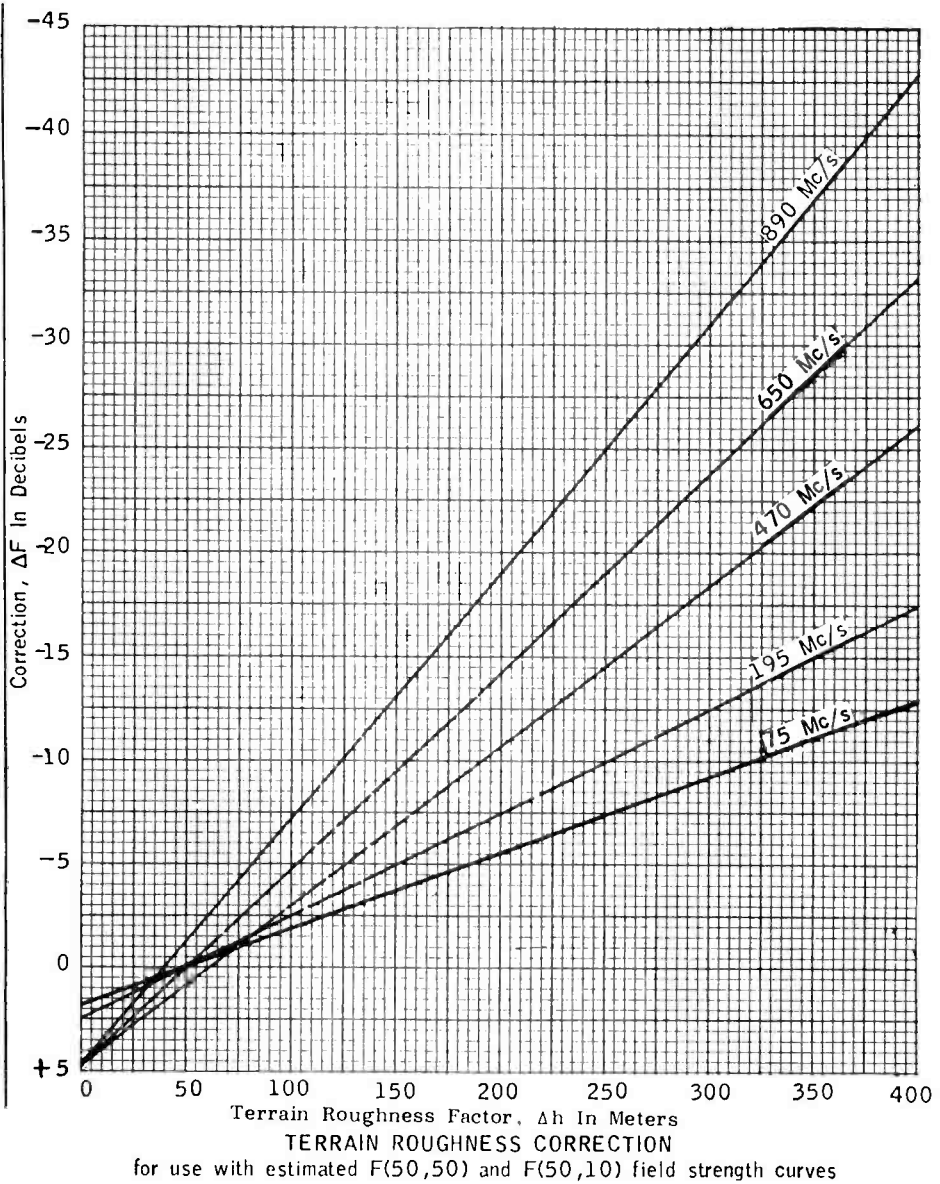
ESTIMATED FIELD STRENGTH EXCEEDED AT 50 PERCENT OF THE POTENTIAL RECEIVER LOCATIONS FOR AT LEAST 50 PERCENT 10 PERCENT* OF THE TIME AT A RECEIVING ANTENNA HEIGHT OF 9 METERS

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73



FCC §73.699 FIGURE 10d

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73



for use with estimated F(50,50) and F(50,10) field strength curves

EFFECTIVE DATE NOTE: At 42 FR 25736, May 19, 1977, the effective date of § 73.699 Figure 10e was stayed indefinitely.

[Next Page is No. 479]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

ASSUMED IDEAL DETECTOR OUTPUT

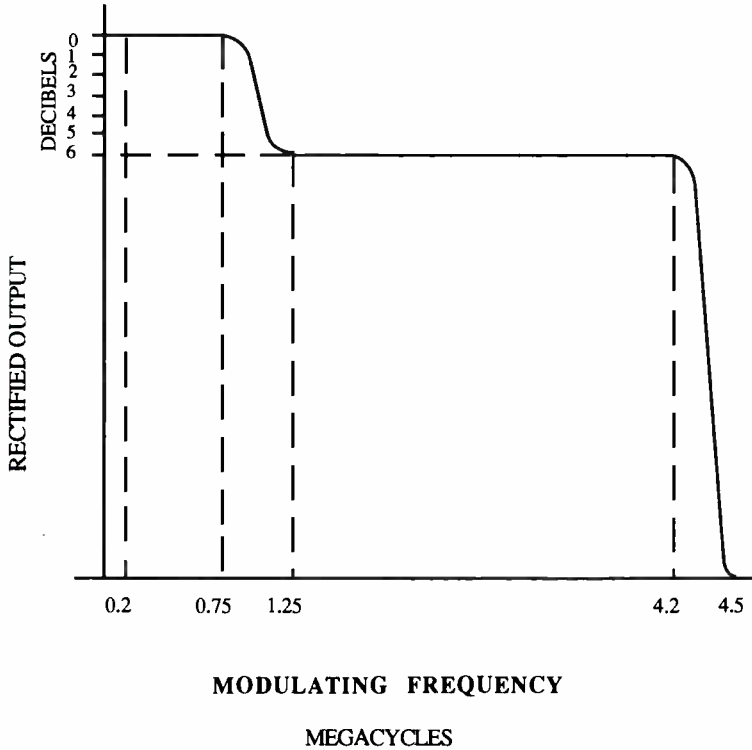
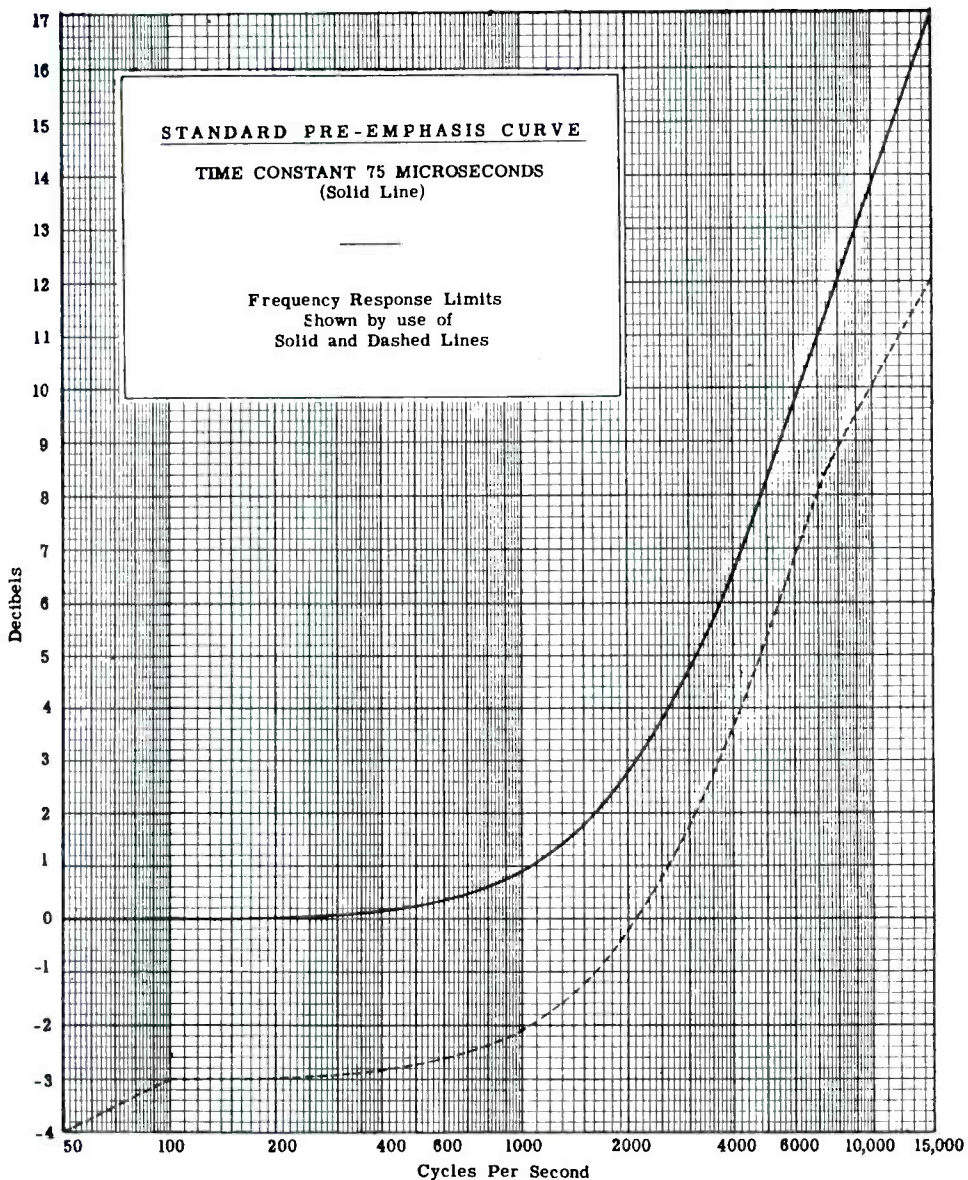


FIGURE 11

[Next Page is No. 480.1]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73



FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

FIGURE 13

~~MULTIBURST TEST SIGNAL~~
~~(FIELD 1, LINE 17)~~

[RESERVED] [81-583, 2/22/82]

February 22, 1982
81-583

73.699
Figure 14

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

FIGURE 14

~~COLOR BAR TEST SIGNAL~~
~~(FIELD 2, LINE 17)~~

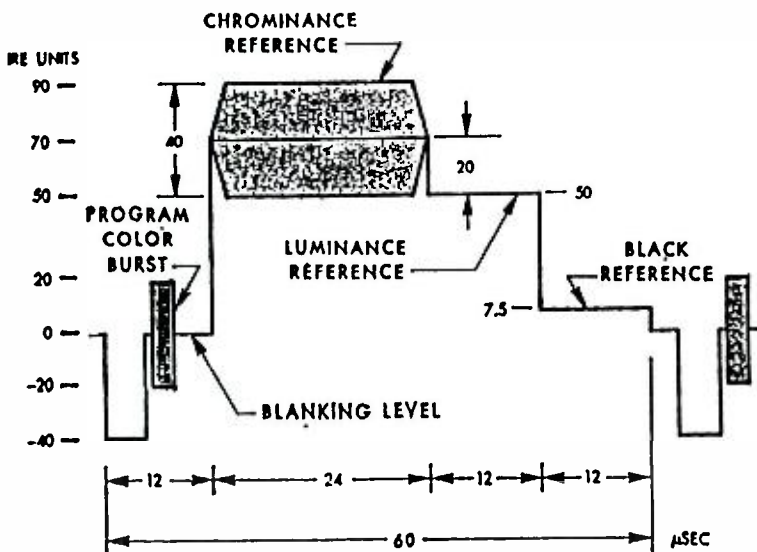
[RESERVED] [81-583, 2/22/82]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

FIGURE 15
COMPOSITE SIGNAL
(FIELD 1, LINE 18)
[RESERVED] [81-583, 2/22/82]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

VERTICAL INTERVAL REFERENCE (VIR) SIGNAL



NOTE: THE CHROMINANCE REFERENCE AND THE PROGRAM COLOR BURST HAVE THE SAME PHASE.

FIGURE 16

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

FIGURE 17 - HORIZONTAL DIMENSIONS NOT TO SCALE

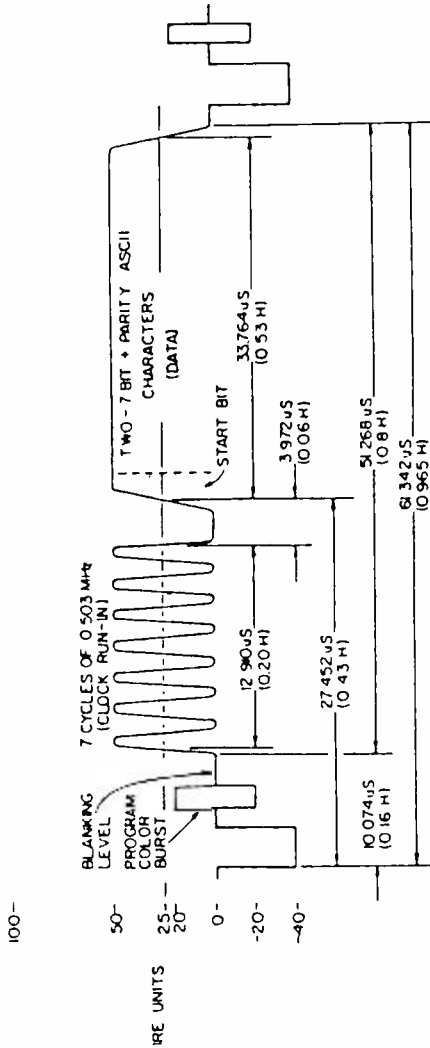


FIGURE 17 LINE 21 FIELD DATA SIGNAL FORMAT

- 1 DATA "1" = 50 RE UNITS, DATA "0" = 0
- 2 DATA PULSE RISE TIME = 2 T BAR RISE TIME
- 3 DATA TIME BASE = 32 H (0.50349650 MHz)
- 4 DATA BIT INTERVAL = H/32 (1.986 μ s)
- 5 NEGATIVE GOING ZERO CROSSINGS OF CLOCK ARE COHERENT WITH DATA TRANSITIONS.
- 6 DATA AND CLOCK RUN-IN COHERENT WITH H

HORIZONTAL DIMENSIONS NOT TO SCALE

FCC § 73.699, Figure 17

[Next Page is No. 481]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

SUBPART F

INTERNATIONAL BROADCAST STATIONS

~~DEFINITIONS AND ALLOCATION OF FACILITIES~~

73.701 DEFINITIONS.

The following definitions apply to terminology employed in this subpart: (Added 73-735, 8/20/73)

(a) INTERNATIONAL BROADCASTING STATIONS.

A broadcasting station employing frequencies allocated to the broadcasting service between 5,950 and 26,100 kHz, the transmissions of which are intended to be received directly by the general public in foreign countries. (A station may be authorized more than one transmitter.) There are both government and non-government international broadcasting stations; only the latter are licensed by the Commission and are subject to the rules of this subpart. (Added 73-735, 8/20/73)

(b) TRANSMITTER-HOUR.

One frequency used on one transmitter for one hour. (Added 73-735, 8/20/73)

(c) FREQUENCY-HOUR.

One frequency used for one hour regardless of the number of transmitters over which it is simultaneously broadcast by a station during that hour. (Added 73-735, 8/20/73)

(d) MULTIPLE OPERATION.

Broadcasting by a station on one frequency over two or more transmitters simultaneously. If a station uses the same frequency simultaneously on each of two (three, etc.) transmitters for an hour, it uses one frequency-hour and two (three, etc.) transmitter-hours. (Added 73-735, 8/20/73)

(e) DAY.

Any twenty-four hour period beginning 0100 g.m.t. and ending 0100 g.m.t. (Added 73-735, 8/20/73)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(f) SUNSPOT NUMBER.

The 12-month running average of the number of sunspots for any month as indicated in the U.S. Department of Commerce Telecommunications Research and Engineering Report No. 13- available from the Superintendent of Documents, Washington, D.C. 20402. The sunspot number varies in an approximate 11-year cycle.

(g) MARCH SEASON.

That portion of any year commencing 0100 g.m.t. on the first Sunday in March and ending at 0100 g.m.t. on the first Sunday in May.

(h) MAY SEASON.

That portion of any year commencing at 0100 g.m.t. on the first Sunday in May and ending at 0100 g.m.t. on the first Sunday in September.

(i) SEPTEMBER SEASON.

That portion of any year commencing at 0100 g.m.t. on the first Sunday in September and ending at 0100 g.m.t. on the first Sunday in November.

(j) NOVEMBER SEASON.

That portion of any year commencing at 0100 g.m.t. on the first Sunday in November and ending at 0100 g.m.t. on the first Sunday in March.

(k) SEASONAL SCHEDULE.

An assignment, for a season, of a frequency or frequencies, and other technical parameters, to be used by a station for transmission to particular zones or areas of reception during specified hours.

(l) REFERENCE MONTH.

That month of a season which is used for determining predicted propagation characteristics for the season. The reference month is January, April, July, or October, as related to the season in which it occurs.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(m) **MAXIMUM USABLE FREQUENCY (MUF).**

The highest frequency which is returned by ionospheric radio propagation to the surface of the earth for a particular path and time of day for 50 percent of the days of the reference month.

(n) **OPTIMUM WORKING FREQUENCY (FOT).**

The highest frequency which is returned by ionospheric radio propagation to the surface of the earth for a particular path and time of day for 90 percent of the days of the reference month.

NOTE: The international abbreviation for optimum working frequency, FOT, is formed with the initial letters of the French words for "optimum working frequency" which are "frequency optimum de travail."

(o) **ZONE OF RECEPTION.**

Any geographic zone indicated in § 73.703 in which the reception of particular programs is specifically intended and in which broadcast coverage is contemplated.

(p) **AREA OF RECEPTION.**

Any geographic area smaller than a zone of reception in which the reception of particular programs is specifically intended and in which broadcast coverage is contemplated, such areas being indicated by countries or parts of countries.

(q) **DELIVERED MEDIAN FIELD STRENGTH, OR FIELD STRENGTH.**

The field strength incident upon the zone or area of reception expressed in microvolts per meter, or decibels above one microvolt per meter, which is exceeded by the hourly median value for 50 percent of the days of the reference month.

(r) **CARRIER POWER.**

The average power supplied to the antenna transmission line by a transmitter during one radio frequency cycle under conditions of no modulation.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.702 ASSIGNMENT AND USE OF FREQUENCIES.

(a) Frequencies will be assigned by the Commission prior to the start of each season to authorized international broadcasting stations for use during the season at specified hours and for transmission to specified zones or areas of reception, with specified power and antenna bearing. Six months prior to the start of each season, licensees and permittees shall by informal written request, submitted to the Commission in triplicate, indicate for the season the frequency or frequencies desired for transmission to each zone or area of reception specified in the license or permit, the specific hours during which it desires to transmit to such zones or areas on each frequency, and the power, antenna gain, and antenna bearing it desires to use. Requests will be honored to the extent that interference and propagation conditions permit and that they are otherwise in accordance with the provisions of this section.

(b) After necessary processing of the requests required by paragraph (a) of this section, the Commission will notify each licensee and permittee of the frequencies, hours of use thereof to specified zones or areas of reception, power, and antenna bearing which it intends to authorize for the season in question. After receipt of such notification, the licensee or permittee shall, in writing, not later than two months before the start of the season in question, inform the Commission either that it plans to operate in accordance with the authorization which the Commission intends to issue, or that it plans to operate in another manner. If the licensee or permittee indicates that it plans to operate in another manner, it shall furnish explanatory details.

(c) If after submitting the request required under the provisions of paragraph (a) of this section, but before receipt of the Commission's notification referred to in paragraph (b) of this section, the licensee or permittee submits a request for changes of its original request, such requests will be accepted for consideration only if accompanied by statements showing good cause therefor and will be honored only if conditions permit. If the information required to be submitted by the licensee or permittee under the provisions of paragraph (b) of this section indicates that operation in another manner is contemplated, and the explanatory details contain a request for change in the originally proposed manner of operation, such requests will be accepted for consideration only if accompanied by statements showing good cause therefor and will be honored only if conditions permit. If after the licensee or permittee submits the information required under the provisions of paragraph (b) of this section, but before the start of the season in question, the licensee or permittee submits a request for changes in its manner of operation for the season in question, the request will be accepted for consideration only if accompanied by statements showing good cause therefor and will be honored only if conditions permit. If after the start of a season the licensee or permittee submits a request for changes in the manner of operation as authorized, the request will be considered only if accompanied by statements showing good cause therefor, and will be honored only if conditions permit.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(d) The provisions of paragraphs (a), (b), and (c) of the section shall apply to licensees, to permittees operating under program test authority, and to permittees who anticipate applying for and receiving program test authority for operation during the specified season.

NOTE: Permittees who during the process of construction wish to engage in equipment tests shall by informal written request, submitted to the Commission in triplicate not less than 30 days before they desire to begin such testing, indicate the frequencies they desire to use for testing and the hours they desire to use those frequencies. No equipment testing shall occur until the Commission has authorized frequencies and hours for such testing. Such authorizations shall be only for one season, and if it is desired to continue equipment testing in a following season, new requests for frequencies and hours must be submitted at least 30 days before it is desired to begin testing in the following season.

(e) Within 14 days after the end of each season, a report shall be filed with the Commission by each licensee or permittee operating under program test authority who has been issued a seasonal schedule for that season. The report shall state whether the licensee or permittee has operated the number of frequency-hours authorized by the seasonal schedule to each of the zones or areas of reception specified in the schedule. If such operation has not occurred, a detailed explanation of that fact shall also be submitted which includes specific dates, frequency-hours not used, and reasons for the failure to operate as authorized. The report shall also contain information that has been received by the licensee or permittee as to reception or interference, and conclusions with regard to propagation characteristics of frequencies that were assigned for the season in question.

EDITOR'S NOTE: Section 73.702(f) has been so completely revised as of March 24, 1986, that the previous wording is not shown.

(f) Frequencies assigned by the FCC shall be within the following bands which are allocated exclusively to the international broadcast service:

- (1) 5,950-6,200 kHz; 9,500-9,775 kHz; 11,700-11,975 kHz;
15,100-15,450 kHz; 17,700-17,900 kHz; 21,450-21,750 kHz;
25,600-26,100 kHz.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (2) In addition, the following band is allocated exclusively to the international broadcast service in Region 3:

7,100-7,300 kHz. Assignments in this frequency band will be limited to international broadcast stations located in the area designated as Region 3 by No. 395 of the International Radio Regulations and authorized only to transmit to zones and areas of reception situated outside Region 2 as defined in No. 394 of the International Radio Regulations. In addition, during the hours of 0800-1600 UTC (Coordinated Universal Time) antenna gain with reference to an isotropic radiator in any easterly direction that would intersect any area in Region 2 shall not exceed 2.15 dBi, except in the case where a transmitter power of less than 100 kW is used. In this case, antenna gain on restricted azimuths shall not exceed that which is determined in accordance with the equation below. Stations desiring to operate in this band must submit sufficient antenna performance information to ensure compliance with these restrictions. Permitted Gain for Transmitter powers less than 100 kW:

$$G_i = 2.15 + 10 \log \left(\frac{100}{P_a} \right) \text{ dBi}$$

Where:

G_i = maximum gain permitted with reference to an isotropic radiator.

P_a = Transmitter power employed in kW.

- (3) The carrier frequencies assignable shall begin 5 kHz above the frequency specified above for the beginning of each band and shall be in successive steps of 5 kHz to and including 5 kHz below the frequency specified as the end of each band.

[Next Page is No. 486.1]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(g) Frequencies requested for assignment must be as near as practicable to the optimum working frequency (unless otherwise justified) for the zone or area of reception for the period and path of transmission, and should be chosen so that a given frequency will provide the largest period of reliable transmission to the selected zone or area of reception. Moreover, at the zone or area of reception frequencies shall provide protection to the transmissions of other broadcasting stations which, in the opinion of the Commission, have priority of assignment.

NOTE 1: Requests for frequency-hours shall be accompanied by all pertinent technical data with reference to the frequencies and hours of operation, including calculated field strengths delivered to the zones or areas of reception.

NOTE 2: It is preferable that calculated field strengths delivered to zones or areas of reception be equal to or greater than those required by I.F.R.B. Technical Standards, Series A (and supplements thereto), in order for the I.F.R.B. to afford the notified assignment protection from interference. Nevertheless, calculated field strengths less than those required by the I.F.R.B. standards for protection will be acceptable to the Commission. However, licensees should note that if such lesser field strengths are submitted no protection from interference will be provided by the I.F.R.B. if their technical examination of such notifications show incompatibilities with other notified assignments fully complying with I.F.R.B. technical standards.

NOTE 3: Licensees are permitted to engage in multiple operation as defined in § 73.701(d).

NOTE 4: Seasonal requests for frequency-hours will be only for transmissions to zones or areas of reception specified in the basic instrument of authorization. Changes in such zones or areas will be made only on separate application for modification of such instruments.

(h) Not more than one frequency will be assigned for use at any one time for any one program transmission except in instances where a program is intended for reception in more than one zone or area of reception and the intended zones or areas cannot be served by a single frequency: Provided, however, That on a showing of good cause a licensee may be authorized to operate on more than one frequency at any one time to transmit any one program to a single zone or area of reception.

[Next Page is No. 487]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(i) Any frequency assigned to a licensee or permittee shall also be available for assignment to other licensees or permittees.

(j) All assignments of frequencies and the hours during which they will be used will be made with the express understanding that they are subject to immediate cancellation or change without hearing whenever the Commission determines that interference or propagation conditions so require and that each frequency-hour assignment for a given seasonal schedule is unique unto itself and not necessarily available for use during a subsequent season.

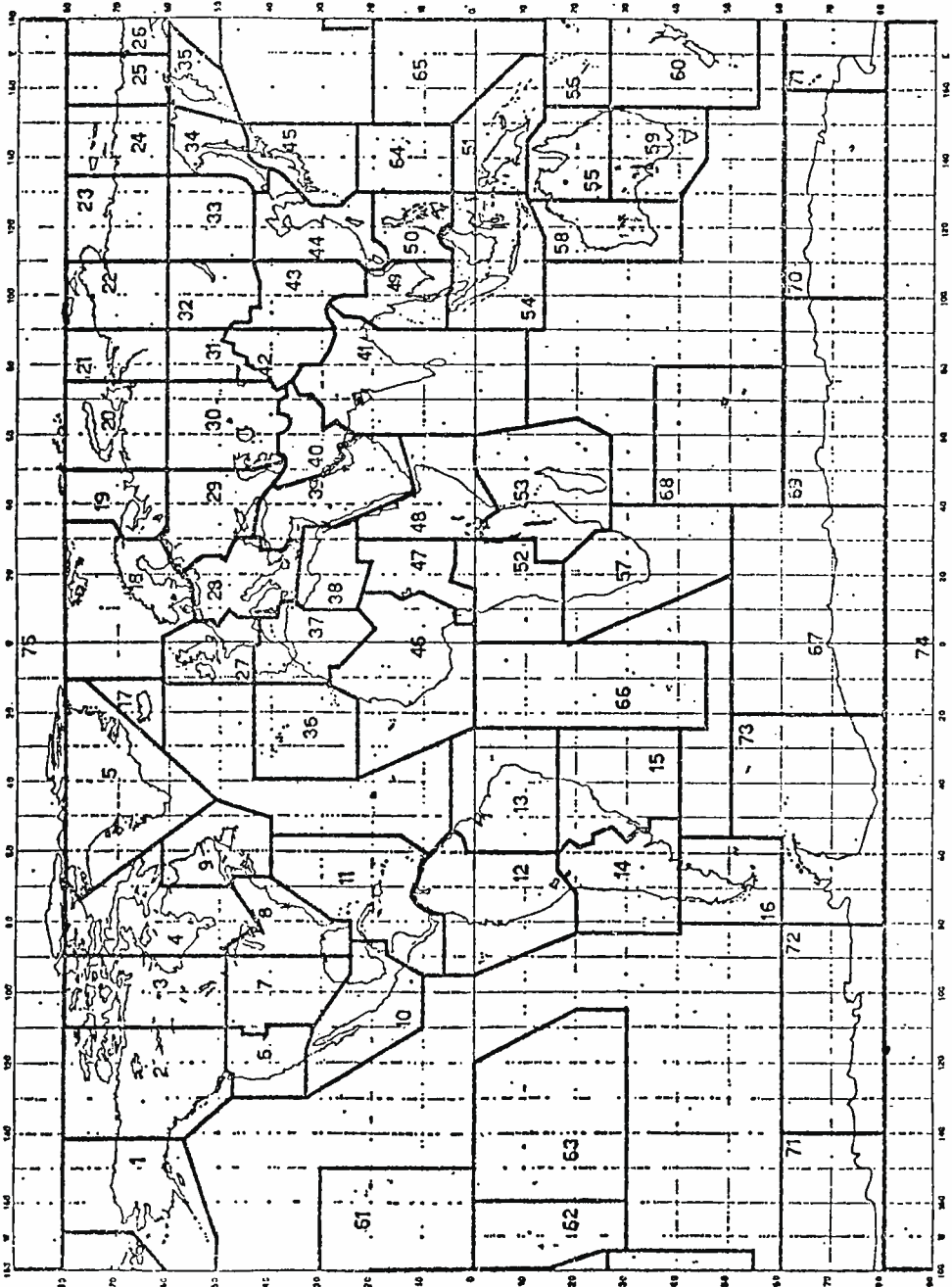
(k) The total maximum number of frequency-hours which will be authorized to all licensees of international broadcasting stations during any one day for any season is 100. The number of frequency-hours allocated to any licensee will depend on past usage, availability, and need. If for a forthcoming season the total of the requests for daily frequency-hours of all licensees exceeds 100, all licensees will be notified and each licensee that makes an adequate showing that good cause exists for not having its requested number of frequency-hours reduced and that operation of its station without such reduction would be consistent with the public interest may be authorized the frequency-hours requested.

NOTE: The provisions of this paragraph are not to be construed to mean that a total of 100 (or more) frequency-hours per day is assured licensees. Frequency-hours will only be assigned to the extent that they are available. It is the responsibility of each licensee to make all technical studies to show that frequency-hours requested by it are available and suitable for use as proposed.

73.703 GEOGRAPHICAL ZONES AND AREAS OF RECEPTION.

The zones or areas of reception to be served by international broadcasting stations shall be based on the following map, and directive antennas shall be employed to direct transmissions thereto:

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73



FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.712 EQUIPMENT TESTS.

(a) During the process of construction of an international broadcasting station, the permittee, having obtained authorization for frequencies and hours as set forth in the Note to § 73.702(d) may, without further authority of the FCC, conduct equipment tests for the purpose of such adjustments and measurements as may be necessary to assure compliance with the terms of the construction permit, the technical provisions of the application therefor, and the rules and regulations. Such tests shall use voice identification and test tones only. No programming shall be conducted during equipment tests. (Edit. Amdt. 8/31/82)

(b) The Commission may notify the permittee to conduct no tests or may cancel, suspend, or change the date for the beginning of equipment tests when and if such action may appear to be in the public interest, convenience, and necessity.

(c) Equipment tests may be continued so long as the construction permit shall remain valid: Provided, however, That the procedure set forth in paragraph (a) of this section must be repeated prior to the conducting of such tests in each season after the season in which the testing began.

(d) The authorization for tests embodied in this section shall not be construed as constituting a license to operate but as a necessary part of construction. (Edit. Amdt. 8/31/82)

73.713 PROGRAM TESTS.

(a) Upon completion of construction of an international broadcasting station in accordance with the terms of the construction permit, the technical provisions of the application therefor, and the rules and regulations and the applicable engineering standards, and when an application for station license has been filed showing the station to be in satisfactory operating condition, the permittee may request authority to conduct program tests. (Edit. Amdt. 8/31/82)

Such request shall be filed with the FCC at least 10 days prior to the date on which it is desired to begin such operation. All data necessary to show compliance with the terms and conditions of the construction permit must be filed with the license application. (Edit. Amdt. 8/31/82)

[Next Page is No. 493]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(b) Program tests shall not commence until specific Commission authority is received. The Commission reserves the right to change the date of the beginning of such tests or to suspend or revoke the authority for program tests as and when such action may appear to be in the public interest, convenience, and necessity.

(c) Unless sooner suspended or revoked, program test authority continues valid during Commission consideration of the application for license and during this period further extension of the construction permit is not required. Program test authority shall be automatically terminated by final determination upon the application for station license.

(d) All operation under program test authority shall be in strict compliance with the rules governing international broadcasting stations and in strict accordance with representations made in the application for license pursuant to which the tests were authorized.

(e) The granting of program test authority shall not be construed as approval by the Commission of the application for station license.

LICENSING POLICIES

73.731 LICENSING REQUIREMENTS.

(a) A license for an international broadcasting station will be issued only after a satisfactory showing has been made in regard to the following, among others:

- (1) That there is a need for the international broadcasting service proposed to be rendered.
- (2) That the necessary program sources are available to the applicant to render the international service proposed.
- (3) That the production of the program service and the technical operation of the proposed station will be conducted by qualified persons.
- (4) That the applicant is legally, technically and financially qualified and possesses adequate technical facilities to carry forward the service proposed.
- (5) That the public interest, convenience and necessity will be served through the operation of the proposed station.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.732 AUTHORIZATIONS.

Authorizations issued to international broadcasting stations by the Commission will be authorizations to permit the construction or use of a particular transmitting equipment combination and related antenna systems for international broadcasting, and to permit broadcasting to zones or areas of reception specified on the instrument of authorization. The authorizations will not specify the frequencies to be used or the hours of use. Requests for frequencies and hours of use will be made as provided in § 73.702. Seasonal schedules, when issued pursuant to the provisions of § 73.702, will become attachments to and part of the instrument of authorization, replacing any such prior attachments.

73.733 NORMAL LICENSE PERIOD.

All international broadcasting station licenses will be issued so as to expire at the hour of 3 a.m. local time and will be issued for a normal license period of 7 8 years expiring November 1. ~~However, the license of a broadcasting station that fails to transmit broadcast signals for any consecutive 12-month period expires as a matter of law at the end of that period, notwithstanding any provision, term, or condition of the license to the contrary. (Revised 96-218, 6/6/96)~~

73.751 OPERATING POWER.

No international broadcasting station will be authorized to install, or be licensed for operation of, transmitter equipment with a rated carrier power of less than 50 kilowatts. (Revised 81-570, 12/16/81)

73.753 ANTENNA SYSTEMS. (Edit. Amdt. 11/16/79)

All international broadcasting stations shall operate with directional antennas. Such antennas shall be designed and operated so that the radiated power in the maximum lobe toward the specific zone or area of reception intended to be served shall be at least 10 times the average power from the antenna in the horizontal plane. Radiation in all other directions shall be suppressed to the maximum extent technically feasible. In order to eliminate or mitigate harmful interference, the direction of the maximum lobe may be adjusted upon approval of the Commission.

73.754 FREQUENCY MONITORS.

(a) The licensee of each international broadcast station shall operate a frequency monitor at the transmitter independent of the frequency control of the transmitter.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(b) The frequency monitor shall be designed and constructed in accordance with good engineering practice. It shall have an accuracy sufficient to determine that the operating frequency is within one-half of the allowed tolerance.

73.755 MODULATION MONITORS.

The licensee of each international broadcast station shall have a modulation monitor in operation at the transmitter.

**73.756 TRANSMISSION SYSTEM REQUIREMENTS.
~~REQUIRED TRANSMITTER PERFORMANCE.~~**

(a) **DESIGN.**

The construction, installation, operation, and performance of the international broadcasting transmitter system shall be in accordance with good engineering practice.

(b) **SPURIOUS EMISSION.**

- (1) Any emission appearing on a frequency removed from the carrier frequency by between 6.4 kHz and 10 kHz, inclusive, shall be attenuated at least 25 dB below the level of the unmodulated carrier. Compliance with the specification will be deemed to show the occupied bandwidth to be 10 kHz or less.
- (2) Any emission appearing on a frequency removed from the carrier frequency by more than 10 kHz and up to and including 25 kHz shall be attenuated at least 35 dB below the level of the unmodulated carrier.
- (3) Any emission appearing on a frequency removed from the carrier frequency by more than 25 kHz shall be attenuated at least 80 dB below the level of the unmodulated carrier.
- (4) In the event spurious emissions cause harmful interference to other stations or services, such additional steps as may be necessary to eliminate the interference must be taken immediately by the licensee.

(c) **FREQUENCY CONTROL.**

The transmitter shall be equipped with automatic frequency control apparatus so designed and constructed that it is capable of maintaining the operating frequency within 0.0015 percent of the assigned frequency.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.757 AUXILIARY TRANSMITTERS.

Upon showing that a need exists for the use of auxiliary transmitters, a license may be issued provided that:

- (a) Auxiliary transmitters may be installed either at the same location as the main transmitters or at another location.
- (b) ~~REMOVED AND RESERVED~~ A licensed operator shall be in control whenever auxiliary transmitters are placed in operation.
- (c) The auxiliary transmitters shall be maintained so that they may be put into immediate operation at any time for the following purposes:
 - (1) The transmission of the regular programs upon the failure of the main transmitters.
 - (2) The transmission of regular programs during maintenance or modification work on the main transmitter, necessitating discontinuance of its operation for a period not to exceed 5 days. (This includes the equipment changes which may be made without authority as set forth elsewhere in the rules and regulations or as authorized by the Commission by letter or by construction permit. Where such operation is required for periods in excess of 5 days, request therefor shall be in accordance with § 73.3542 of this chapter.)
 - (3) Upon request by a duly authorized representative of the Commission.
- (d) The auxiliary transmitters shall be tested at least once each week to determine that they are in proper operating condition and that they are adjusted to the proper frequency except that in the case of operation in accordance with paragraph (c) of this section during any week, the test in that week may be omitted provided the operation under paragraph (c) of this section is satisfactory. A record shall be kept of the time and result of each test. Such records shall be retained for a period of two years.
- (e) The auxiliary transmitters shall be equipped with satisfactory control equipment which will enable the maintenance of the frequency emitted by the station within the limits prescribed by the regulations in this part.
- (f) The operating power of an auxiliary transmitter may be less but not greater than the authorized power of the main transmitters.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.758 ALTERNATE MAIN TRANSMITTERS.

The licensee of an international broadcast station may be licensed for alternate main transmitters provided that a technical need for such alternate transmitters is shown and that the following conditions are met:

Both transmitters:

- (a) Are located at the same place;
- (b) Shall have the same power rating; and
- (c) Shall meet the construction, installation, operation, and performance requirements of good engineering practice.

**73.759 MODIFICATION OF TRANSMISSION SYSTEMS.
~~CHANGES IN EQUIPMENT AND ANTENNA SYSTEMS.~~**

Specific authority, upon filing formal application (FCC Form 309) therefor, is required for any of the following changes:

- (a) Change involving an increase or decrease in the power rating of the transmitters.
- (b) A replacement of the transmitters as a whole.
- (c) Change in the location of the transmitting antenna.
- (d) Change in location of main studio, if it is proposed to move the main studio to a different city from that specified in the license.
- (e) Change in the power delivered to the antenna.
- (f) Change in frequency control and/or modulation system.
- (g) Change in direction or gain of antenna system.

Other changes, not specified above in this section, may be made at any time without the authority of the Commission: *Provided*, That the Commission shall be immediately notified thereof and such changes shall be shown in the next application for renewal of license.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.761 TIME OF OPERATION.

(a) All international broadcasting stations shall operate in accordance with the times indicated on their seasonal schedules.

(b) In the event that causes beyond a licensee's control make it impossible to adhere to the seasonal schedule or to continue operating, the station may limit or discontinue operation for a period of not more than 10 days, without further authority from the FCC. However, in such cases, the FCC shall be immediately notified in writing of such limitation or discontinuance of operation and shall subsequently be notified when the station resumes regular operation. (Edit. Amdt. 8/31/82)

(c) In the event that causes beyond a licensee's control make it impossible to adhere to the seasonal schedule or to continue operating for a temporary period of more than 10 days, the station may not limit or discontinue operation until it requests and receives specific authority to do so from the FCC. When the station subsequently resumes regular operation after such limited operation or discontinuance of operation, it shall notify the FCC in Washington, D.C. The license of a broadcasting station that fails to transmit broadcast signals for any consecutive 12-month period expires as a matter of law at the end of that period, notwithstanding any provision, term, or condition of the license to the contrary.

73.764 [REMOVED]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.765 DETERMINING OPERATING POWER. (Edit. Amdt. 11/16/79)

The operating power specified in § 73.751 shall be determined by use of a calibrated dummy load or by any other method specified by the licensee and accepted by the Commission. Such method may subsequently be used by the licensee to maintain the authorized operating power.

73.766 MODULATION AND BANDWIDTH.

The percentage of modulation shall be maintained as high as possible consistent with good quality of transmission and good broadcast practice. In no case shall it exceed 100 percent on positive or negative peaks of frequent recurrence. It should not be less than 85 percent on peaks of frequent recurrence. The range of modulation frequencies shall be so controlled that the authorized bandwidth of the emission shall not be exceeded under all conditions of modulation. The highest modulating frequency shall not exceed 5 kHz.

73.781 LOGS.

The licensee or permittee of each international broadcast station must maintain the station log in the following manner: (Revised 83-338, 9/19/83)

(a) In the program log:

- (1) An entry of the time each station identification announcement (call letters and location) is made.
- (2) An entry briefly describing each program broadcast, such as "music", "drama", "speech", etc., together with the name or title thereof, language, and the sponsor's name, with the time of the beginning and ending of the complete program.
- (3) For each program of network origin, an entry showing the name of the network originating the program.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.782 RETENTION OF LOGS.

Logs of international broadcast stations shall be retained by the licensee or permittee for a period of two years: Provided, however, That logs involving communications incident to a disaster or which include communications incident to or involved in an investigation by the Commission and concerning which the licensee or permittee has been notified, shall be retained by the licensee or permittee until he is specifically authorized in writing by the Commission to destroy them: Provided, further, That logs incident to or involved in any claim or complaint of which the licensee or permittee has notice shall be retained by the licensee or permittee until such claim or complaint has been fully satisfied or until the same has been barred by statute limiting the time for filing of suits upon such claims.

***73.783 LOGS, ~~BY WHOM KEPT.~~**

***73.784 LOG ~~FORM.~~**

***73.785 CORRECTION ~~OF LOGS.~~**

**Previous text not shown.*

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

~~73.786~~ — ~~ROUGH LOGS.~~

~~Rough logs may be transcribed into condensed form, but in such case, the original log or memoranda and all portions thereof shall be preserved and made a part of the complete log.~~

73.787 STATION IDENTIFICATION.

(a) A licensee of an international broadcast station shall make station identification announcement (call letters and location), at the beginning and ending of each time of operation and during the operation on the hour.

(b) Station identification, program announcements, and oral continuity shall be made with international significance (language particularly) which is designed for the foreign country or countries for which the service is primarily intended.

73.788 SERVICE; COMMERCIAL OR SPONSORED PROGRAMS.

(a) A licensee of an international broadcast station shall render only an international broadcast service which will reflect the culture of this country and which will promote international goodwill, understanding, and cooperation. Any program solely intended for and directed to an audience in the continental United States does not meet the requirements for this service.

(b) Such international broadcast service may include commercial or sponsored programs: Provided, That:

- (1) Commercial program continuities give no more than the name of the sponsor of the program and the name and general character of the commodity, utility or service, or attraction advertised.
- (2) In case of advertising a commodity, the commodity is regularly sold or is being promoted for sale on the open market in the foreign country or countries to which the program is directed in accordance with paragraph (c) of this section.
- (3) In case of advertising an American utility or service to prospective tourists or visitors to the United States, the advertisement continuity is particularly directed to such persons in the foreign country or countries where they reside and to which the program is directed in accordance with paragraph (c) of this section.

[Next Page is No. 503]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (4) In case of advertising an international attraction (such as a world fair, resort, spa, etc.) to prospective tourists or visitors to the United States, the oral continuity concerning such attraction is consistent with the purpose and intent of this section.
- (5) In case of any other type of advertising, such advertising is directed to the foreign country or countries to which the program is directed and is consistent with the purpose and intent of this section.

(c) The geographic areas to be served by international broadcasting stations are the zones and areas of reception show in § 73.703.

(d) An international broadcast station may transmit the program of a AM broadcast station or network system: Provided, That the conditions in paragraph (b) of this section as to any commercial continuities are observed and when station identifications are made, only the call letter designation of the international station is given and its assigned frequency: And Provided further, That in the case of chain broadcasting the program is not carried simultaneously by another international station (except another station owned by the same licensee operated on a frequency in a different group to obtain continuity of signal service), the signals from which are directed to the same area. (See section 3(p) of the Communications Act of 1934 for the definition of "chain broadcasting.")

*73.789 ~~SPONSORSHIP IDENTIFICATION.~~

*73.790 ~~REBROADCASTS.~~

*73.793 ~~EQUAL EMPLOYMENT OPPORTUNITIES.~~

[Next Page is No. 505]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

SUBPART G**EMERGENCY BROADCAST SYSTEM****73.900 CROSS REFERENCES.**

The Emergency Broadcast System (EBS) rules have been renamed the Emergency Alert System (EAS) and revised. The new EAS rules are contained in a new Part 11. Equipment type accepted for EBS use under the old Subpart G rules may continue to be used at broadcast stations until January 1, 1998, provided that it meets all applicable requirements of Part 11 of this chapter. (Revised 95-420, 12/6/95)

OLD SECTION	NEW SECTION
73.901	11.1
73.902	11.1
73.903	11.11
73.904	Removed
73.905	11.13
73.906	11.12
73.907	11.13
73.908	11.15
73.909	11.16
73.910	11.17
73.912	11.43
73.913	11.18
73.914	11.19
73.915	11.19
73.916	11.19
73.917	11.19
73.918	11.19
73.919	11.20
73.920	11.21(b)
73.921	11.21
73.922	11.44
73.926	11.41
73.927	11.42
73.931	11.14, 11.53
73.932	11.35, 11.51, 11.52
73.933	11.54
73.935	11.55
73.936	11.55
73.937	11.55
73.940	11.32
73.941	11.33
73.942	11.34
73.943	11.34
73.961	11.61
73.962	11.62

[Next Page is No. 563]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

SUBPART H**RULES APPLICABLE TO ALL BROADCAST STATIONS****73.1001 SCOPE.**

(a) The rules in this subpart are common to all AM, FM, and TV broadcast services, commercial and noncommercial. (Revised 78-502, 8/1/78)

(b) Rules in part 73 applying exclusively to a particular broadcast service are contained in the following: (Revised 78-502, 8/1/78)

AM, subpart A; (Revised 78-502, 8/1/78)

FM, subpart B; (Revised 78-502, 8/1/78)

Noncommercial Educational FM, subpart C; and (Revised 78-502, 8/1/78)

TV, subpart E. (Revised 78-502, 8/1/78)

(c) Certain provisions of this subpart apply to International Broadcast Stations (Subpart F, Part 73), Low power TV, TV Translator and TV Booster Stations (Subpart G, Part 74) where the rules for those services so provide. (Revised 87-244, 9/21/87)

(d) The provisions of this part applying to licensees also apply to holders of construction permits (permittees). (Revised 78-502, 8/1/78)

73.1010 CROSS REFERENCE TO RULES IN OTHER PARTS.

Certain rules applicable to broadcast services, some of which are also applicable to other services, are set forth in the following Parts of the FCC Rules and Regulations. (Edit. Admt., 2/25/88)

(a) Part 1. "Practice and Procedure." (Edit. Admt., 2/25/88)

(1) Subpart A, "General Rules of Practice and Procedure". (§§ 1.1 to 1.120), (Edit. Admt., 2/25/88)

(2) Subpart B, "Hearing Proceedings". (§§ 1.201 to 1.364). (Edit. Admt., 2/25/88)

(3) Subpart C, "Rulemaking Proceedings". (§§ 1.399 to 1.430). (Edit. Admt., 2/25/88)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (4) Subpart G, "Schedule of Statutory Charges and Procedures for Payment". (§§ 1.1101 to 1.1117). (92-1314, 10/23/92)
 - (5) Subpart H, "Ex Parte Communications". (§§ 1.1200 to 1.1216). (Edit. Admt., 2/25/88)
 - (6) Subpart I, "Procedures Implementing the National Environmental Policy Act of 1969". (§§ 1.1301 to 1.1319).*
 - (7) Subpart P, "Implementation of the Anti-Drug Abuse Act of 1988". (§§ 1.2001-1.2003) (Revised 92-1314, 10/23/92)
- (b) Part 2, "Frequency Allocations and Radio Treaty Matters, General Rules and Regulations", including Subparts A, "Terminology"; B, "Allocation, Assignments and Use of Radio Frequencies"; C, "Emissions"; D, "Call Signs and Other Forms of Identifying Radio Transmissions"; and J, "Equipment Authorization Procedures". (Edit. Admt., 2/25/88)
- (c) ~~[REMOVED AND RESERVED] — Part 13, "Commercial Radio Operators". (Edit. Admt., 2/25/88)~~
- (d) Part 17, "Construction, Marking and Lighting of Antenna Structures". (Edit. Admt., 2/25/88)
- (e) Part 74, "Experimental, Auxiliary and Special Broadcast and Other Program Distributional Services" including: (Edit. Admt., 2/25/88)
- (1) Subpart A, "Experimental Broadcast Stations"; (Edit. Admt., 2/25/88)
 - (2) Subpart D, "Remote Pickup Broadcast Stations"; (Edit. Admt., 2/25/88)
 - (3) Subpart E, "Aural Broadcast Auxiliary Stations"; (Edit. Admt., 2/25/88)

[Next Page is No. 564.1]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (4) Subpart F, "Television Broadcast Auxiliary Stations";
- (5) Subpart G, "Low Power TV, TV Translator and TV Booster Stations";
- (6) Subpart H, "Low Power Auxiliary Stations";
- (7) Subpart I, "Instructional TV Fixed Service"; and
- (8) Subpart L, "FM Broadcast Translator Stations and FM Broadcast Booster Stations".

73.1015 TRUTHFUL WRITTEN STATEMENTS AND RESPONSES TO COMMISSION INQUIRIES AND CORRESPONDENCE.

The Commission or its representatives may, in writing, require from any applicant, permittee, or licensee written statements of fact relevant to a determination whether an application should be granted or denied, or to a determination whether a license should be revoked, or to some other matter within the jurisdiction of the Commission, or, in the case of a proceeding to amend the FM or Television Table of Allotments, require from any person filing an expression of interest, written statements of fact relevant to that allotment proceeding. No applicant, permittee, licensee, or person who files an expression of interest shall in any response to Commission correspondence or inquiry or in any application, pleading, report or any other written statement submitted to the Commission, make any misrepresentation or willful material omission bearing on any matter within the jurisdiction of the Commission. (Revised 90-191, 10/4/90)

NOTE: Section 73.1015 is limited in application to written matter. It implies no change in the Commission's existing policies respecting the obligation of applicants, permittees and licensees in all instances to respond truthfully to requests for information deemed necessary to the proper execution of the Commission's functions. (Added 85-648, 2/20/86)

73.1020 STATION LICENSE PERIOD.

(a) Initial licenses for broadcast stations will ordinarily be issued for a period running until the date specified in this section for the State or Territory in which the station is located. If issued after such date, it will run to the next renewal date determined in accordance with this section. Both radio and TV broadcasting stations will ordinarily be renewed for 8 7 years, ~~and TV broadcast stations will be renewed for 5 years.~~ However, if the FCC finds that the public interest, convenience and necessity will be served thereby, it may issue either an initial license or a renewal thereof for a lesser term. The time of expiration of normally issued initial and renewal licenses will be 3 a.m., local time, on the following dates and thereafter at 8 7-year intervals for radio and TV broadcast stations ~~and at 5 year intervals for TV broadcast stations~~ located in: ~~(Ed. Amdt 7/8/87)~~

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (1) Maryland, District of Columbia, Virginia and West Virginia: (Added 94-259, 12/20/94)
 - (i) Radio stations, October 1, 1995 (Added 94-259, 12/20/94)
 - (ii) Television stations, October 1, 1996 (Added 94-259, 12/20/94)
- (2) North Carolina and South Carolina: (Added 94-259, 12/20/94)
 - (i) Radio stations, December 1, 1995 (Added 94-259, 12/20/94)
 - (ii) Television stations, December 1, 1996 (Added 94-259, 12/20/94)
- (3) Florida, Puerto Rico and the Virgin Islands: (Added 94-259, 12/20/94)
 - (i) Radio stations, February 1, 1996 (Added 94-259, 12/20/94)
 - (ii) Television stations, February 1, 1997 (Added 94-259, 12/20/94)
- (4) Alabama and Georgia: (Added 94-259, 12/20/94)
 - (i) Radio stations, April 1, 1996 (Added 94-259, 12/20/94)
 - (ii) Television stations, April 1, 1997 (Added 94-259, 12/20/94)
- (5) Arkansas, Louisiana and Mississippi: (Added 94-259, 12/20/94)
 - (i) Radio stations, June 1, 1996 (Added 94-259, 12/20/94)
 - (ii) Television stations, June 1, 1997 (Added 94-259, 12/20/94)

[Next Page is No. 564.2a]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (6) Tennessee, Kentucky and Indiana:
 - (i) Radio stations, August 1, 1996.
 - (ii) Television stations, August 1, 1997.
- (7) Ohio and Michigan:
 - (i) Radio stations, October 1, 1996.
 - (ii) Television stations, October 1, 1997.
- (8) Illinois and Wisconsin:
 - (i) Radio stations, December 1, 1996.
 - (ii) Television stations, December 1, 1997.
- (9) Iowa and Missouri:
 - (i) Radio stations, February 1, 1997.
 - (ii) Television stations, February 1, 1998.
- (10) Minnesota, North Dakota, South Dakota, Montana and Colorado:
 - (i) Radio stations, April 1, 1997.
 - (ii) Television stations, April 1, 1998.
- (11) Kansas, Oklahoma and Nebraska:
 - (i) Radio stations, June 1, 1997.
 - (ii) Television stations, June 1, 1998.
- (12) Texas:
 - (i) Radio stations, August 1, 1997.
 - (ii) Television stations, August 1, 1998.
- (13) Wyoming, Nevada, Arizona, Utah, New Mexico and Idaho:
 - (i) Radio stations, October 1, 1997.
 - (ii) Television stations, October 1, 1998.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (14) California:
 - (i) Radio stations, December 1, 1997
 - (ii) Television stations, December 1, 1998
- (15) Alaska, American Samoa, Guam, Hawaii, Mariana Islands, Oregon and Washington:
 - (i) Radio stations, February 1, 1998
 - (ii) Television stations, February 1, 1999
- (16) Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island and Vermont:
 - (i) Radio stations, April 1, 1998
 - (ii) Television stations, April 1, 1999
- (17) New Jersey and New York:
 - (i) Radio stations, June 1, 1998
 - (ii) Television stations, June 1, 1999
- (18) Delaware and Pennsylvania:
 - (i) Radio stations, August 1, 1998
 - (ii) Television stations, August 1, 1999

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(b) For the cutoff date for the filing of applications mutually exclusive with renewal applications that are filed on or before May 1, 1995 and for the deadline for filing petitions to deny renewal applications, see § 73.3516(e). (Added 96-172, 4/25/96)

(c) The license of a broadcasting station that fails to transmit broadcast signals for any consecutive 12-month period expires as a matter of law at the end of that period, notwithstanding any provision, term, or condition of the license to the contrary. (Added 96-218, 6/6/96)

**73.1030 NOTIFICATIONS CONCERNING INTERFERENCE TO
RADIO ASTRONOMY, RESEARCH AND RECEIVING
INSTALLATIONS.**

**(a) RADIO ASTRONOMY AND RADIO RESEARCH
INSTALLATIONS.**

(1) In order to minimize harmful interference at the National Radio Astronomy Observatory site located at Green Bank, Pocahontas County, West Virginia, and at the Naval Radio Research Observatory at Sugar Grove, Pendleton County, West Virginia, a licensee proposing to operate a short-term broadcast auxiliary station pursuant to § 74.24, or an applicant for authority to construct a new broadcast station or for authority to make changes in the frequency, power, antenna height, or antenna directivity of an existing station within the area bounded by 39°15'N on the north, 78°30'W on the east, 37°30'N on the south, and 80°30'W on the west shall, at the time of filing such application with the FCC, simultaneously notify the following: Interference Office, National Radio Astronomy Observatory, PO Box 2, Green Bank, West Virginia 24944, Telephone: 304-456-2011.

The notification shall be in writing and set forth the particulars of the proposed station, including the geographical coordinates of the antenna, antenna height, antenna directivity if any, proposed frequency, type of emission and power. In addition, the applicant shall indicate in his application to the FCC the date notification was made to the observatory. After receipt of such applications, the FCC will allow a period of 20 days for comments or objections in response to the notifications indicated. If an objection to the proposed operation is received during the 20-day period from the National Radio Astronomy Observatory for itself or on behalf of the Naval Radio Research Observatory, the FCC will consider all aspects of the problem and take whatever action is deemed appropriate.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(2) Any applicant for a new permanent base or fixed station authorization to be located on the islands of Puerto Rico, Desecheo, Mona, Vieques, and Culebra, or for a modification of an existing authorization which would change the frequency, power, antenna height, directivity, or location of a station on these islands and would increase the likelihood of the authorized facility causing interference, shall notify the Interference Office, Arecibo Observatory, Post Office Box 995, Arecibo, Puerto Rico 00613, in writing or electronically, of the technical parameters of the proposal. Applicants may wish to consult interference guidelines, which will be provided by Cornell University. Applicants who choose to information electronically should e-mail to: prcz@naic.edu.

- (i) The notification to the Interference Office, Arecibo Observatory shall be made prior to, or simultaneously with, the filing of the application with the Commission. The notification shall state the geographical coordinates of the antenna (NAD-83 datum), antenna height above ground, ground elevation at the antenna, antenna directivity and gain, proposed frequency and FCC Rule Part, type of emission, and effective radiated power. Generally, submission of the information in the technical portion of the FCC license application is adequate notification. In addition, the applicant shall indicate in its application to the Commission the date notification was made to the Arecibo Observatory.
- (ii) After receipt of such applications, the Commission will allow the Arecibo Observatory a period of 20 days for comments or objections in response to the notification indicated. The applicant will be required to make reasonable efforts in order to resolve or mitigate any potential interference problem with the Arecibo Observatory and to file either an amendment to the application or a modification application, as appropriate. If the Commission determines that an applicant has satisfied its responsibility to make reasonable efforts to protect the Observatory from interference, its application may be granted.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(b) **RADIO RECEIVING INSTALLATIONS.**

Protection for Table Mountain Radio Receiving Zone, Boulder County, Colorado: Applicants for a station authorization to operate in the vicinity of Boulder County, Colorado under this Part are advised to give due consideration, prior to filing applications, to the need to protect the Table Mountain Radio Receiving Zone from harmful interference. These are the research laboratories of the Department of Commerce, Boulder County, Colorado. To prevent degradation of the present ambient radio signal level at the site, the Department of Commerce seeks to ensure that the field strengths of any radiated signals (excluding reflected signals) received on this 1800 acre site (within the area bounded by 40°09'10"N Latitude on the north, 105°13'31"W Longitude on the east, 40°07'05"N Latitude on the south, and 105°15'13"W Longitude on the west) resulting from new assignments (other than mobile stations) or from the modification or relocation of existing facilities do not exceed the following values:

[Next Page is No. 564.3]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

Frequency range	Field strength in authorized bandwidth of service (mV/m)	Power flux density in authorized bandwidth of service (dBW/m ²) ¹
Below 540 kHz	10	-65.8
540 to 1700 kHz	20	-59.8
1.7 to 470 MHz	10	2-65.8
470 to 890 MHz	30	2-56.2
Above 890 MHz	1	2-85.8

¹Equivalent values of power flux density are calculated assuming free space characteristic impedance of 376.7=120 ohms.

²Space stations shall conform to the power flux density limits at the earth's surface specified in appropriate parts of the FCC rules, but in no case should exceed the above levels in any 4 kHz band for all angles of arrival.

(1) Advance consultation is recommended particularly for those applicants who have no reliable data which indicates whether the field strength or power flux density figures in the above table would be exceeded by their proposed radio facilities (except mobile stations). In such instances, the following is a suggested guide for determining whether coordination is recommended. (Revised 85-497, 10/23/85)

- (i) All stations within 2.4 km (1.5 statute miles); (Revised 85-497, 10/23/85)
- (ii) Stations within 4.8 km (3 statute miles) with 50 watts or more effective radiated power (ERP) in the primary plane of polarization in the azimuthal direction of the Table Mountain Radio Receiving Zone; (Revised 85-497, 10/23/85)
- (iii) Stations within 16.1 km (10 statute miles) with 1 kW or more ERP in the primary plane of polarization in the azimuthal direction of Table Mountain Receiving Zone; (Revised 85-497, 10/23/85)
- (iv) Stations within 80.5 km (50 statute miles) with 25 kW or more ERP in the primary plane of polarization in the azimuthal direction of Table Mountain Receiving Zone. (Revised 85-497, 10/23/85)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (2) Applicants concerned are urged to communicate with the Radio Frequency Management Coordinator, Department of Commerce, Research Support Services, NOAA R/E5X2, Boulder Laboratories, Boulder, CO 80303; telephone (303) 497-6548, in advance of filing their applications with the Commission. (Revised 85-497, 10/23/85)
- (3) The Commission will not screen applications to determine whether advance consultation has taken place. However, applicants are advised that such consultation can avoid objections from the Department of Commerce or proceedings to modify any authorization which may be granted which, in fact, delivers a signal at the site in excess of the field strength specified herein. (Revised 85-497, 10/23/85)

(c) **PROTECTION FOR FEDERAL COMMUNICATIONS
COMMISSION MONITORING STATIONS:**

- (1) Applicants in the vicinity of an FCC monitoring station for a radio station authorization to operate new transmitting facilities or changed transmitting facilities which would increase the field strength produced over the monitoring station over that previously authorized are advised to give consideration, prior to filing applications, to the possible need to protect the FCC stations from harmful interference. Geographic coordinates of the facilities which require protection are listed in Section 0.121(c) of the Commission's Rules. Applications for stations (except mobile stations) which will produce on any frequency a direct wave fundamental field strength of *greater than 10 mV/m* in the authorized bandwidth of service (-65.8 dBW/m² power flux density assuming a free space characteristic impedance of 120 Ω ohms) at the referenced coordinates, may be examined to determine extent of possible interference. Depending on the theoretical field strength value and existing root-sum-square or other ambient radio field signal levels at the indicated coordinates, a clause protecting the monitoring station may be added to the station authorization.
- (2) In the event that calculated value of expected field exceeds 10 mV/m (-65.8 dBW/m²) at the reference coordinates, or if there is any question whether field strength levels might exceed the threshold value, advance consultation with the FCC to discuss any protection necessary should be considered. Prospective applicants may communicate with: Chief, Compliance and Information Bureau, Federal Communications Commission, Washington, D.C. 20554, Telephone (202) 632-6980. (Revised 95-423, 2/9/96)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (3) Advance consultation is suggested particularly for those applicants who have no reliable data which indicates whether the field strength or power flux density figure indicated would be exceeded by their proposed radio facilities (except mobile stations). In such instances, the following is a suggested guide for determining whether an applicant should coordinate: (Added 79-831, 1/31/80)
 - (i) All stations within 2.4 kilometers (1.5 statute miles); (Added 79-767, 12/10/79)
 - (ii) Stations within 4.8 kilometers (3 statute miles) with 50 watts or more average effective radiated power (ERP) in the primary plane of polarization in the azimuthal direction of the Monitoring Stations; (Added 79-767, 12/10/79)
 - (iii) Stations within 16 kilometers (10 statute miles) with 1 kW or more average ERP in the primary plane of polarization in the azimuthal direction of the Monitoring Station; (Added 79-767, 12/10/79)
 - (iv) Stations within 80 kilometers (50 statute miles) with 25 kW or more average ERP in the primary plane of polarization in the azimuthal direction of the Monitoring Station. (Added 79-767, 12/10/79)
- (4) Advance coordination for stations operating above 1000 MHz is recommended only where the proposed station is in the vicinity of a monitoring station designated as a satellite monitoring facility in Section 0.121(c) of the Commission's Rules and also meets the criteria outlined in paragraphs (2) and (3) above. (Added 79-831, 1/31/80)
- (5) The Commission will not screen applications to determine whether advance consultation has taken place. However, applicants are advised that such consultation can avoid objections from the Federal Communications Commission or modification of any authorization which will cause harmful interference. (Added 79-831, 1/31/80)

73.1120 STATION LOCATION.

(a) Each AM, FM and TV broadcast station will be licensed to the principal community or other political subdivision which it primarily serves. This principal community (city, town or other political subdivision) will be considered to be the geographical station location.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.1125 STATION MAIN STUDIO LOCATION.

(a) Each AM, FM and TV broadcast station shall maintain a main studio within the station's principal community contour as defined in § 73.24(i)(5) (5 mV/m daytime contour), §§ 73.315(a) and 73.685(a), respectively, of this chapter, except

- (1) AM stations licensed as synchronous amplifier transmitters ("AM boosters") or,*
- (2) An FM station whose main studio is located at the collocated main studio-transmitter site of a commonly-owned AM station licensed to the same principal community or,*
- (3) Any AM, FM or TV broadcast station whose main studio is located in the community to which the station is licensed to serve at a point situated outside the principal community contour or,*
- (4) AM, FM or TV stations, when good cause exists for locating the main studio outside the station's principal community contour and that to do so would be consistent with the operation of the station in the public interest.*

*(Revised 87-137, 7/16/87)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (b) Relocation of the main studio may be made: (Added 91-303, 4/19/92)
- (1) From one point to another within the principal community contour or from a point outside the principal community contour to one within it, without specific FCC authority, but notification to the FCC in Washington shall be made promptly; however, (Added 91-303, 4/19/92)
 - (2) Written authority to locate a main studio outside a station's principal community contour for the first time must be obtained from the Audio Services Division, Mass Media Bureau for AM and FM stations, or the Television Branch, Video Services Division, Mass Media Bureau for television stations before the studio may be moved to that location. Where the main studio is already authorized at a location outside the station's principal community contour, and the licensee or permittee desires to specify a new location also located outside the station's principal community contour, written authority must also be received from the Commission prior to the relocation of the main studio. Authority for these changes may be requested by filing a letter with an explanation of the proposed changes with the appropriate division. Licensees or permittees should be aware that filing of a letter request for written authority to relocate the main studio outside the principal community contour does not imply approval of the relocation request, because each request is addressed on a case-by-case basis. A filing fee is required for commercial AM, FM, or TV licensees or permittees filing a letter request under this section (*see* § 1.1104).
 - (3) Exceptions to paragraph (b)(2) of this section are: (Revised 87-137, 7/16/87)
 - (i) Relocation of the main studio of an FM station to the collocated main studio-transmitter site of a commonly-owned AM station licensed to the same principal community; and, (Revised 87-137, 7/16/87)
 - (ii) Relocation of the main studio from one point to another within the principal community of license or from a point outside the principal community to one within it. (Revised 87-137, 7/16/87)
 - (iii) Notification to the FCC in Washington shall be made promptly of such relocations described in paragraphs (b)(3)(i) and (ii) of this section. (Revised 87-137, 7/16/87)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(c) Each AM, FM and TV broadcast station shall maintain a local telephone number in its community of license or a toll-free number. (Revised 87-137, 7/16/87)

(d) Where the principal community to be served does not have specifically defined political boundaries, applications will be considered on a case-by-case basis by the FCC to determine if the main studio is located within the principal community to be served. (Added 91-303, 4/19/92)

NOTE: AM stations that simulcast on a frequency in the 535-1605 kHz band and on a frequency in the 1605-1705 kHz band need only have the studio be located within the 5 mV/m contour of the lower band operation during the term of the simultaneous operating authority. Upon termination of the 535-1605 kHz band portion of the dual frequency operation, the above rule shall then become applicable to the remaining operation in the 1605-1705 kHz band. (Added 91-303, 4/19/92)

73.1150 TRANSFERRING A STATION.

(a) In transferring a broadcast station, the licensee may retain no right of reversion of the license, no right to reassignment of the license in the future, and may not reserve the right to use the facilities of the station for any period whatsoever. (Added 79-610, 10/22/79)

(b) No license, renewal of license, assignment of license or transfer of control of a corporate license will be granted or authorized if there is a contract, arrangement or understanding, express or implied, pursuant to which, as consideration or partial consideration for the assignment or transfer, such rights as stated in paragraph (a) of this section, are retained. (Added 79-610, 10/22/79)

(c) Licensees and/or permittees authorized to operated in the 535-1605 kHz and in the 1605-1705 kHz band pursuant to the Report and Order in MM Docket No. 87-267 will not be permitted to assign or transfer control of the license or permit for a single frequency during the period that joint operation is authorized. (Added 91-303, 4/19/92)

73.1201 STATION IDENTIFICATION. (Added 69-1365, 1/19/70)

(a) WHEN REGULARLY REQUIRED.

Broadcast station identification announcements shall be made:

- (1) At the beginning and ending of each time of operations, and (Added 69-1365, 1/19/70)
- (2) hourly, as close to the hour as feasible, at a natural break in program offerings. (Revised 72-967, 12/15/72)

Television broadcast stations may make these announcements visually or aurally.

[Next Page is No. 564.8a]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(b) CONTENT.

- (1) Official station identification shall consist of the station's call letters immediately followed by the community or communities specified in its license as the station's location: Provided, That the name of the licensee or the station's frequency or channel number, or both, as stated on the station's license may be inserted between the call letters and station location. No other insertion is permissible. (Revised 76-656, 7/22/76)

[Next Page is No. 564.9]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (2) A station may include in its official station identification the name of any additional community or communities, but the community to which the station is licensed must be named first. (Revised 83-487, 12/8/83)

(c) **CHANNEL.**

(1) **GENERAL.**

Except as otherwise provided in this paragraph, in making the identification announcement the call letters shall be given only on the channel identified thereby. (Amended 74-166, 2/27/74)

(2) **SIMULTANEOUS AM (535-1605 kHz) and AM (1605-1705 kHz BROADCASTS.**

If the same licensee operates an AM broadcast station in the 535-1605 kHz band and an AM broadcast station in the 1605-1705 kHz band with both stations licensed to the same community and simultaneously broadcasts the same programs over the facilities of both such stations, station identification announcements may be made jointly for both stations for periods of such simultaneous operations.

(3) **SATELLITE OPERATION.** (Added 74-166, 2/27/74)

When programming of a broadcast station is re-broadcast simultaneously over the facilities of a satellite station, the originating station may make identification announcements for the satellite station for periods of such simultaneous operation.

- (i) In the case of a television broadcast station, such announcements, in addition to the information required by paragraph (b)(1) of this section, shall include the number of the channel on which each station is operating.
- (ii) In the case of aural broadcast stations, such announcements, in addition to the information required by paragraph (b)(1) of this section, shall include the frequency on which each station is operating.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(d) SUBSCRIPTION TELEVISION STATIONS (STV).

The requirements for official station identification applicable to TV stations will apply to Subscription TV stations except, during STV-encoded programming such station identification is not required. However, a station identification announcement will be made immediately prior to and following the encoded Subscription TV program period. (Added 82-25, 3/5/82)

73.1202 RETENTION OF LETTERS RECEIVED FROM THE PUBLIC.

(a) All written comments and suggestions received from the public by licensees of commercial AM, FM, and TV broadcast stations regarding operation of their station shall be maintained in the local public inspection file, unless the letter writer has requested that the letter not be made public or when the licensee feels that it should be excluded from public inspection because of the nature of its content, such as a defamatory or obscene letter. (Edit. Amdt. 7/9/87)

- (1) Letters shall be retained in the local public inspection file for three years from the date on which they are received by the licensee. (Added 81-146, 6/10/81)
- (2) Letters received by TV licensees only shall be placed in one of the following separated subject categories: programming or non-programming. If comments in a letter relate to both categories, the licensee shall file it under the category to which the writer has given the greater attention.

[Next Page is No. 567]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.1205 ~~FRAUDULENT BILLING PRACTICES.*~~

73.1206 BROADCAST OF TELEPHONE CONVERSATIONS.

Before recording a telephone conversation for broadcast, or broadcasting such a conversation simultaneously with its occurrence, a licensee shall inform any party to the call of the licensee's intention to broadcast the conversation, except where such party is aware, or may be presumed to be aware from the circumstances of the conversation, that it is being or likely will be broadcast. Such awareness is presumed to exist only when the other party to the call is associated with the station (such as an employee or part-time reporter), or where the other party originates the call and it is obvious that it is in connection with a program in which the station customarily broadcasts telephone conversations. (Added 70-514, 6/22/70)

*Previous text not shown.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.1207 REBROADCASTS.

(a) The term "rebroadcast" means reception by radio of the programs or other transmissions of a broadcast or any other type of radio station and the simultaneous or subsequent retransmission of such programs or transmissions by a broadcast station. (Revised 79-369, 7/2/79)

- (1) As used in this section "program" includes any complete programs or part thereof. (Revised 79-369, 7/2/79)
- (2) The transmission of a program from its point of origin to a broadcast station entirely by common carrier facilities, whether by wire line or radio, is not considered a rebroadcast. (Revised 79-369, 7/2/79)
- (3) The broadcasting of a program relayed by a remote pickup broadcast station is not considered a rebroadcast. (Added 80-165, 4/30/80)

(b) No broadcast station may retransmit the program, or any part thereof, of another U.S. broadcast station without the express authority of the originating station. A copy of the written consent of the licensee originating the program must be kept by the licensee of the station retransmitting such program and made available to the FCC upon request. (Revised 80-165, 4/30/80)

- (1) Stations originating emergency communications under a State EAS plan are considered to have conferred rebroadcast authority to other participating stations. (Revised 94-288, 1/27/95)
- (2) Permission must be obtained from the originating station to rebroadcast any subsidiary communications transmitted by means of a multiplex subcarrier or telecommunications service on the vertical blanking interval or in the visual signal of a television signal.
- (3) Programs originated by the Voice of America (VOA) and the Armed Forces Radio and Television Services (AFRTS) cannot, in general, be cleared for domestic rebroadcast, and may therefore be retransmitted only by special arrangements among the parties concerned. (Added 80-165, 4/30/80)
- (4) Except as otherwise provided by international agreement, programs originated by foreign broadcast stations may be retransmitted without the consent of the originating station. (Added 80-165, 4/30/80)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(c) The transmissions of non-broadcast stations may be rebroadcast under the following conditions: (Added 85-302, 7/22/85)

- (1) Messages originated by privately-owned non-broadcast stations other than those in the Amateur and Citizens Band (CB) Radio Services may be broadcast only upon receipt of prior permission from the non-broadcast licensee. Additionally, messages transmitted by common carrier stations may be rebroadcast only upon prior permission of the originator of the message as well as the station licensee. (Added 85-302, 7/22/85)
- (2) Except as provided in paragraph (d) of this section, messages originated entirely by non-broadcast stations owned and operated by the Federal Government may be rebroadcast only upon receipt of prior permission from the government agency originating the messages. (Added 85-302, 7/22/85)
- (3) Messages originated by stations in the amateur and Citizens Band (CB) radio services may be rebroadcast at the discretion of broadcast station licensees. (Added 85-302, 7/22/85)
- (4) Emergency communications originated under a State EAS plan.

(d) The rebroadcasting of time signals originated by the Naval Observatory and the National Bureau of Standards and messages from the National Weather Service stations is permitted without specific authorization under the following procedures: (Added 79-369, 7/2/79)

(1) NATIONAL OBSERVATORY TIME SIGNALS.

- (i) The time signals rebroadcast must be obtained by direct radio reception from a naval radio station, or by land line circuits.
- (ii) Announcement of the time signal must be made without reference to any commercial activity.
- (iii) Identification of the Naval Observatory as the source of the time signal must be made by an announcement, substantially as follows:

"With the signal, the time will be . . . courtesy of the U.S. Naval Observatory."
- (iv) Schedules of time signal broadcasts may be obtained upon request from the Superintendent, U.S. Naval Observatory, Washington, D.C. 20390.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(2) NATIONAL BUREAU OF STANDARDS TIME SIGNALS.**

- (i) Time signals for rebroadcast must be obtained by direct radio reception from a National Bureau of Standards (NBS) station.**
- (ii) Use of receiving and rebroadcasting equipment must not delay the signals by more than *0.05 second.**
- (iii) Signals must be rebroadcast live, not from tape or other recording.**
- (iv) Voice or code announcements of the call signs of NBS stations are not to be rebroadcast.**
- (v) Identification of the origin of the service and the source of the signals must be made by an announcement substantially as follows:**

"At the tone, 11 hours 25 minutes Coordinated Universal Time. This is a rebroadcast of a continuous service furnished by the National Bureau of Standards, Ft. Collins, Colo." NO commercial sponsorship of this announcement is permitted and none may be implied.**

- (vi) Schedules of time signal broadcasts may be obtained from, and notice of use of NBS time signals for rebroadcast must be forwarded semiannually to:**

National Bureau of Standards, Radio Stations WWV/WWVB, 2000 East County Road 58, Fort Collins, Colorado 80524.**

(**Revised 79-369, 7/2/79)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (7) (vii) In the rebroadcasting of NBS time signals, announcements will not state that they are standard frequency transmissions. Voice announcements of ~~G.m.t.~~ Coordinated Universal Time are given in voice every minute. Each minute, except the first of the hour, begins with an 0.8-second long tone of 1000 hertz at WWV and 1200 hertz tone at WWVH. The first minute of every hour begins with an 0.8 second long tone of 1500 hertz at both stations. This tone is followed by a 3-second pause, then the announcement, "National Bureau of Standards Time." This is followed by another 3-second pause before station identification. This arrangement allows broadcast stations sufficient time to retransmit the hour time tone and the words "National Bureau of Standards Time" either by a manual or automatic switching.
- (8) (viii) Time signals or scales made up from integration of standard frequency signals broadcast from NBS stations may not be designated as national standard scales of time or attributed to the NBS as originator. For example, if a broadcasting station transmits time signals obtained from a studio clock which is periodically calibrated against the NBS time signals from WWV or WWVH, such signals may not be announced as NBS standard time or as having been originated by the NBS. ~~Schedules of time signal broadcasts may be obtained upon request from Frequency Time Broadcast Services Section, Time and Frequency Division, National Bureau of Standards, Boulder, Colo. 80302.~~

NOTE 2:

(3) NATIONAL WEATHER SERVICE MESSAGES.

- (a) (i) Messages of the National Weather Service must be rebroadcast within one hour of receipt, ~~from the National Weather Service (Weather Bureau).~~
- (b) (ii) If advertisements are given in connection with weather rebroadcast, these advertisements ~~shall~~ must not directly or indirectly convey an endorsement by the U.S. Government of the products or services so advertised.
- (c) (iii) Credit must be given to indicate that the rebroadcast message originates with the National Weather Service.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.1208 BROADCAST OF TAPED, FILMED, OR RECORDED MATERIAL. (Added 72-967, 12/15/72)

(a) Any taped, filmed or recorded program material in which time is of special significance, or by which an affirmative attempt is made to create the impression that it is occurring simultaneously with the broadcast, shall be announced at the beginning as taped, filmed or recorded. The language of the announcement shall be clear and in terms commonly understood by the public. For television stations, the announcement may be made visually or aurally. (Added 72-967, 12/15/72)

(b) Taped, filmed, or recorded announcements which are of a commercial, promotional or public service nature need not be identified as taped, filmed or recorded. (Added 72-967, 12/15/72)

73.1209 REFERENCES TO TIME. (Added 74-754, 7/23/74)

Unless specifically designated as "standard (non-advanced)" or "advanced," all references to time contained in this part, and in license documents and other authorizations issued thereunder shall be understood to mean local time; i.e., the time legally observed in the community. (Added 74-754, 7/23/74)

73.1210 TV/FM DUAL-LANGUAGE BROADCASTING IN PUERTO RICO.

(a) For the purpose of this section, dual-language broadcasting shall be understood to mean the telecasting of a program in one language with the simultaneous transmission, on the main channel of a participating FM broadcast station, of companion sound track information in a different language.**

(b) Television broadcast licensees in Puerto Rico may enter into dual-language time purchase agreements with FM broadcast licensees, subject to the following conditions:**

- (1) All such agreements shall be reduced to writing and retained by the licensee for possible Commission inspection, in accordance with *§ 73.3613 of this chapter.**
- (2) All such agreements shall specify that the FM licensee will monitor sound track material with a view to rejecting any material deemed to be inappropriate or objectionable for broadcast exposure.**

(**Added 75-393, 5/19/75)

[Next Page is No. 572.1]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (3) No television or FM broadcast station may devote more than 15 hours per week to dual-language broadcasting nor may more than three (3) hours of such programming be presented on any given day.
- (4) Noncommercial educational television broadcast stations using the facilities of commercial broadcast stations shall take all necessary precautions to assure that the entire operation is conducted on a noncommercial basis and otherwise in accordance with § 73.621 of this part.

73.1211 BROADCAST OF LOTTERY INFORMATION. (Added 75-129, 1/30/75)

(a) No licensee of an AM, FM, or television broadcast station, except as in paragraph (c) of this section, shall broadcast any advertisement of or information concerning any lottery, gift enterprise, or similar scheme, offering prizes dependent in whole or in part upon lot or chance, or any list of the prizes drawn or awarded by means of any such lottery, gift enterprise or scheme, whether said list contains any part or all of such prizes. (18 U.S.C. 1304, 62 Stat. 763). (Added 75-129, 1/30/75)

(b) The determination whether a particular program comes within the provisions of paragraph (a) of this section depends on the facts of each case. However, the Commission will in any event consider that a program comes within the provisions of paragraph (a) of this section if in connection with such program a prize consisting of money or other thing of value is awarded to any person whose selection is dependent in whole or in part upon lot or chance, if as a condition of winning or competing for such prize, such winner or winners are required to furnish any money or other thing of value or are required to have in their possession any product sold, manufactured, furnished or distributed by a sponsor of a program broadcast on the station in question. (See 21 FCC 2d 846). (Added 75-129, 1/30/75)

(c) The provisions of paragraphs (a) and (b) of this section shall not apply to an advertisement, list of prizes or other information concerning: (Revised 80-21, 2/8/80)

- (1) A lottery conducted by a State acting under the authority of State law which is broadcast by a radio or television station licensed to a location in that State or any other State which conducts such a lottery. (18 U.S.C. 1307(a); 102 Stat. 3205). (Revised 90-178, 5/7/90)
- (2) Fishing contests exempted under 18 U.S. Code 1305 (not conducted for profit, i.e., all receipts fully consumed in defraying the actual costs of operation). (Added 80-21, 2/8/80)
- (3) Any gaming conducted by an Indian Tribe pursuant to the Indian Gaming Regulatory Act (25 U.S.C. 2701 *et seq.*)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (4) A lottery, gift enterprise or similar scheme, other than one described in paragraph (c)(1) of this section, that is authorized or not otherwise prohibited by the State in which it is conducted and which is: (Revised 90-178, 5/7/90)
- (i) Conducted by a not-for-profit organization or a governmental organization (18 U.S.C. 1307(a); 102 Stat. 3205); or (Revised 90-178, 5/7/90)
 - (ii) Conducted as a promotional activity by a commercial organization and is clearly occasional and ancillary to the primary business of that organization. (18 U.S.C. *1307(a); 102 Stat. 3205). (Revised 90-178, 5/7/90)
- (d) (1) For the purposes of paragraph (c) of this section, "lottery" means the pooling of proceeds derived from the sale of tickets or chances and allotting those proceeds or parts thereof by chance to one or more chance takers or ticket purchasers. It does not include the placing or accepting of bets or wagers on sporting events or contests. (Revised 90-178, 5/7/90)
- (2) For purposes of paragraph (c)(4)(i) of this section, the term "not-for-profit organization" means any organization that would qualify as tax exempt under section 501 of the Internal Revenue Code of 1986. (Revised 90-178, 5/7/90)

73.1212 SPONSORSHIP IDENTIFICATION; LIST RETENTION; RELATED REQUIREMENTS.

(a) When a broadcast station transmits any matter for which money, service or other valuable consideration is either directly or indirectly paid or promised to, or charged or accepted by such station, the station, at the time of the broadcast, shall announce: (1) That such matter is sponsored, paid for, or furnished, either in whole or in part, and (2) By whom or on whose behalf such consideration was supplied: provided, however, that "service or other valuable consideration" shall not include any service or property furnished either without or at a nominal charge for use on, or in connection with, a broadcast unless it is so furnished in consideration for an identification of any person, product, service, trademark, or brand name beyond and identification reasonably related to the use of such service or property on the broadcast. (Added 75-417, 5/30/75)

- (i) For the purposes of this section, the term "sponsored" shall be deemed to have the same meaning as "paid for". (Revised 91-303, 4/19/92)

[Next Page is No. 572.2a]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (ii) In the case of any television political advertisement concerning candidates for public office, the sponsor shall be identified with letters equal to or greater than four percent of the vertical picture height that air for not less than four seconds.

(b) The licensee of each broadcast station shall exercise reasonable diligence to obtain from its employees, and from other persons with whom it deals directly in connection with any matter for broadcast, information to enable such licensee to make the announcement required by this section. (Added 75-417, 5/30/75)

(c) In any case where a report has been made to a broadcast station as required by section 507 of the Communications Act of 1934, as amended, of circumstances which would have required an announcement under this section had the consideration been received by such broadcast station, an appropriate announcement shall be made by such station. (Editorial Amendment, 1/27/84)

(d) In the case of any political broadcast matter or any broadcast matter involving the discussion of a controversial issue of public importance for which any film, record, transcription, talent, script, or other material or service of any kind is furnished, either directly or indirectly, to a station as an inducement for broadcasting such matter, an announcement shall be made both at the beginning and conclusion of such broadcast on which such material or service is used that such film, record, transcription, talent, script, or other material or service has been furnished to such station in connection with the transmission of such broadcast matter: provided, however, that in the case of any broadcast of 5 minutes' duration or less, only one such announcement need be made either at the beginning or conclusion of the broadcast. (Added 75-417, 5/30/75)

[Next Page is No. 572.3]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(e) The announcement required by this section shall, in addition to stating the fact that the broadcast matter was sponsored, paid for or furnished, fully and fairly disclose the true identity of the person or persons, or corporation, committee, association or other unincorporated group, or other entity by whom or on whose behalf such payment is made or promised, or from whom or on whose behalf such services or other valuable consideration is received, or by whom the material or services referred to in paragraph (d) of this section are furnished. Where an agent or other person or entity contracts or otherwise makes arrangements with a station on behalf of another, and such fact is known or by the exercise of reasonable diligence, as specified in paragraph (b) of this section, could be known to the station, the announcement shall disclose the identity of the person or persons or entity on whose behalf such agent is acting instead of the name of such agent. Where the material broadcast is political matter or matter involving the discussion of a controversial issue of public importance and a corporation, committee, association or other unincorporated group, or other entity is paying for or furnishing the broadcast matter, the station shall, in addition to making the announcement required by this section, require that a list of the chief executive officers or members of the executive committee or of the board of directors of the corporation, committee, association or other unincorporated group, or other entity shall be made available for public inspection at the location specified by the licensee under § 73.3526 of this chapter. If the broadcast is originated by a network, the list may, instead, be retained at the headquarters office of the network or at the location where the originating station maintains its public inspection file under § 73.3526 of this chapter. Such lists shall be kept and made available for a period of two years.
(Revised 81-17, 4/3/81)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(f) In the case of broadcast matter advertising commercial products or services, an announcement stating the sponsor's corporate or trade name, or the name of the sponsor's product, when it is clear that the mention of the name of the product constitutes a sponsorship identification, shall be deemed sufficient for the purpose of this section and only one such announcement need be made at any time during the course of the broadcast. (Added 75-417, 5/30/75)

(g) The announcement otherwise required by section 317 of the Communications Act of 1934, as amended, is waived with respect to the broadcast of "want ad" or classified advertisements sponsored by an individual. The waiver granted in this paragraph shall not extend to a classified advertisement or want ad sponsorship by any form of business enterprise, corporate or otherwise. Whenever sponsorship announcements are omitted pursuant to this paragraph, the licensee shall observe the following conditions: (Added 75-417, 5/30/75)

- (1) Maintain a list showing the name, address, and (where available) the telephone number of each advertiser; (Added 75-417, 5/30/75)
- (2) Make this list available to members of the public who have a legitimate interest in obtaining the information contained in the list. Such list must be retained for a period of two years after broadcast.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(h) Any announcement required by section 317(b) of the Communications Act of 1934, as amended, is waived with respect to feature motion picture film produced initially and primarily for theatre exhibition. (Added 75-417, 5/30/75)

NOTE: The waiver heretofore granted by the Commission in its Report and Order adopted November 16, 1960 (FCC 60-1369; 40 F.C.C. 95), continues to apply to programs filmed or recorded on or before June 20, 1963, when § 73.654, the predecessor television rule, went into effect. (Added 75-417, 5/30/75)

(i) Commission interpretations in connection with the provisions of the sponsorship identification rules are contained in the Commission's Public Notice, entitled "Applicability of Sponsorship Identification Rules," dated May 6, 1963 (40 F.C.C. 141), as modified by Public Notice, dated April 21, 1975 (FCC 75-418). Further interpretations are printed in full in various volumes of the Federal Communications Commission Reports. (Added 75-417, 5/30/75)

73.1213 ANTENNA STRUCTURE, MARKING AND LIGHTING.

(a) The provisions of part 17 of this chapter (Construction, Marking and Lighting of Antenna Structures), requires certain antenna structures ~~to~~ be painted and/or lighted in accordance with part 17. ~~the provisions of that Part. (See §§ 17.47 through 17.56.)~~

(b) The owner of each antenna structure is responsible for ensuring that the structure, if required, is painted and/or illuminated in accordance with part 17 of this chapter. In the event of default by the owner, each licensee or permittee shall be responsible for ensuring that the structure complies with applicable painting and lighting requirements.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(c) If a common tower is used for antenna and/or antenna supporting purposes by more than one licensee or permittee of an AM, FM or TV station or by one or more such licensees or permittees ~~and one or more licensees or permittees~~ of any other service, each licensee or permittee shall be responsible for painting and lighting the structure when obstruction marking and lighting are required by ~~Commission~~ FCC rules. However, each such licensee or permittee utilizing a common tower may, ~~with the approval of the Commission in Washington,~~ designate one of the licensees or permittees as responsible for painting and lighting the structure. Such designated licensee or permittee shall be solely responsible for conforming to all ~~Commission~~ FCC requirements of Part 17 of this chapter regarding obstruction marking and lighting of antenna structures. (See §§ 17.47 through 17.56.) ~~Requests for such approval shall be submitted in letter form, accompanied by copies of agreement between all participating licensees or permittees.~~ A copy of the agreement between the licensees or permittees and the Commission approval must be retained in each licensee's or permittee's station file, available for inspection by FCC representatives. In the event of default by the designated licensee of his responsibility, each of the licensees or permittees shall again be individually responsible for conforming to the requirements of the rules, pending ~~Commission approval of a new agreement:~~ appointment of a new designated licensee responsible for conforming to these rules.

73.1215 SPECIFICATIONS FOR INDICATING INSTRUMENTS.

The following requirements and specifications shall apply to indicating instruments used by broadcast stations:

(a) Linear scale instruments:

(1) Length of scale shall not be less than 2.3 inches (5.8 cm).

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (2) Accuracy shall be at least 2 percent of the full scale reading.
 - (3) The maximum rating of the meter shall be such that it does not read off scale during modulation or normal operation.
 - (4) Scale shall have at least 40 divisions.
 - (5) Full scale reading shall not be greater than five times the minimum normal indication.
- (b) Instruments having square-law scales:
- (1) Meet the requirements of paragraphs (a)(1), (2), and (3) of this section for linear scale instruments.
 - (2) Full scale reading shall not be greater than three times the minimum normal indication.
 - (3) No scale division above one-third full scale reading shall be greater than one-thirtieth of the full scale reading. (Example: An ammeter meeting requirement (1) having full scale reading of 6 amperes is acceptable for reading currents from 2 to 6 amperes, provided no scale division between 2 and 6 amperes is greater than one-thirtieth of 6 amperes, 0.2 ampere.)
- (c) Instruments having logarithmic scales:
- (1) Meet the requirements of paragraphs (a)(1), (2), and (3) of this section for linear scale instruments.
 - (2) Full scale reading shall not be greater than five times the minimum normal indication.
 - (3) No scale division above one-fifth full scale reading (in watts) shall be greater than one-thirtieth of the full scale reading. (Example: A wattmeter meeting requirement (3) having full scale reading of 1,500 watts is acceptable for reading power from 300 to 1,500 watts, provided no scale division between 300 and 1,500 watts is greater than one-thirtieth of 1,500 watts or 50 watts.)
(Added 76-789, 9/8/76)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (d) Instruments having expanded scales: (Added 76-789, 9/8/76)
- (1) Shall meet the requirements of paragraphs (a)(1), (2), and (3) of this section for linear scale instruments. (Added 76-789, 9/8/76)
 - (2) Full scale reading shall not be greater than five times the minimum normal indication. (Added 76-789, 9/8/76)
 - (3) No scale division above one-fifth full scale reading shall be greater than one-fiftieth of the full scale reading. (Example: An ammeter meeting the requirement (1) is acceptable for indicating current from 1 to 5 amperes, provided no division between 1 and 5 amperes is greater than one-fiftieth of 5 amperes, 0.1 ampere.) (Added 76-789, 9/8/76)
- (e) Digital meters, printers, or other numerical readout devices may be used in addition to or in lieu of indicating instruments meeting the specifications of paragraphs (a), (b), (c), and (d) of this section. ~~If a single digital device is used at the transmitter for reading operating parameters, either (1) indicating instruments meeting the above mentioned specifications must be installed in the transmitter and antenna circuit; (2) a spare digital device must be maintained at the transmitter with a provision for its rapid substitution for the main device should that device malfunction.~~ The readout of the device ~~shall~~ must include at least three digits and must indicate the value ~~or a decimal multiple of the value of the~~ parameter being read to an accuracy of ~~at least~~ 2%. The multiplier, ~~if any,~~ to be applied to the reading of each parameter must be indicated at the operating position ~~of a switch used to select the parameter for display.~~
- (f) No instrument which has been broken or appears to be damaged or defective, or the accuracy of which is questionable shall be used, until it has been checked, and if necessary repaired and recalibrated by the manufacturer or qualified instrument repair service. Repaired instruments shall not be used unless a certificate of calibration has been provided showing that the instrument conforms to the manufacturer's specifications for accuracy.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.1216 LICENSEE-CONDUCTED CONTESTS.

A licensee that broadcasts or advertises information about a contest it conducts shall fully and accurately disclose the material terms of the contest, and shall conduct the contest substantially as announced or advertised. No contest description shall be false, misleading or deceptive with respect to any material term. (Added 76-854, 10/26/76)

NOTE: 1: For the purpose of this rule: (Added 76-854, 10/26/76)

- (a) A contest is a scheme in which a prize is offered or awarded, based upon chance, diligence, knowledge or skill, to members of the public. (Added 76-854, 10/26/76)
- (b) Material terms include those factors which define the operation of the contest and which affect participation therein. Although the material terms may vary widely depending upon the exact nature of the contest, they will generally include: how to enter or participate; eligibility restrictions; entry deadline dates; whether prizes can be won; when prizes can be won; the extent, nature and value of prizes; basis for valuation of prizes; time and means of selection of winners; and/or tie-breaking procedures. (Added 76-854, 10/26/76)

NOTE 2: In general, the time and manner of disclosure of the material terms of a contest are within the licensee's discretion. However, the obligation to disclose the material terms arises at the time the audience is first told how to enter or participate and continues thereafter. The material terms should be disclosed periodically by announcements broadcast on the station conducting the contest, but need not be enumerated each time an announcement promoting the contest is broadcast. Disclosure of material terms in a reasonable number of announcements is sufficient. In addition to the required broadcast announcements, disclosure of the material terms may be made in a non-broadcast manner. (Added 76-854, 10/26/76)

NOTE 3: This rule is not applicable to licensee-conducted contests not broadcast or advertised to the general public or to a substantial segment thereof, to contests in which the general public is not requested or permitted to participate, to the commercial advertisement of non-licensee-conducted contests, or to a contest conducted by a non-broadcast division of the licensee or by a non-broadcast company related to the licensee. (Added 76-854, 10/26/76)

73.1217 BROADCAST HOAXES.

No licensee or permittee of any broadcast station shall broadcast false information concerning a crime or a catastrophe if:

- (a) The licensee knows this information is false;

***(Revised 92-208, 7/27/92)**

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (b) It is foreseeable that broadcast of the information will cause substantial public harm, and*
- (c) Broadcast of the information does in fact directly cause substantial public harm.*

Any programming accompanied by a disclaimer will be presumed not to pose foreseeable harm if the disclaimer clearly characterizes the program as a fiction and is presented in a way that is reasonable under the circumstances.*

NOTE: For purposes of this rule, "public harm" must begin immediately, and cause direct and actual damage to property or to the health or safety of the general public, or diversion of law enforcement or other public health and safety authorities from their duties. The public harm will be deemed foreseeable if the licensee could expect with a significant degree of certainty that public harm would occur. A "crime" is any act or omission that makes the offender subject to criminal punishment by law. A "catastrophe" is a disaster or imminent disaster involving violent or sudden event affecting the public.*

73.1225 STATION INSPECTIONS BY FCC.

- (a) The licensee of a broadcast station shall make the station available for inspection by representatives of the FCC during the station's business hours, or at any time it is in operation. (Added 78-681, 10/16/78)
- (b) In the course of an inspection or investigation, an FCC representative may require special equipment tests, program tests or operation with nighttime or presunrise facilities during daytime hours pursuant to § 0.314, part Q 4, of the FCC rules.
- (c) The following records shall be made available by all broadcast stations upon request by representatives of the FCC. (Added 86-484, 12/18/86)
 - (1) Equipment performance measurements required by §§ 73.1590 and 73.1690. (Added 86-484, 12/18/86)
 - (2) The written designations for chief operators and, when applicable, the contracts for chief operators engaged on a contract basis. (Added 86-484, 12/18/86)
 - (3) Application for modification of the transmission system made pursuant to § 73.1690(c). (Added 86-484, 12/18/86)
 - (4) Informal statements or drawings depicting any transmitter modification made pursuant to § 73.1690(e). (Added 86-484, 12/18/86)

*(Revised 92-208, 7/27/92)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (5) Station logs and special technical records. (Added 86-484, 12/18/86)

(d) Commercial and noncommercial AM stations must make the following information also available upon request by representatives of the FCC. (Added 86-484, 12/18/86)

- (1) Copy of the most recent antenna or common-point impedance measurements. (Added 86-484, 12/18/86)
- (2) Copy of the most recent field strength measurements made to establish performance of directional antennas required by § 73.151. (Added 86-484, 12/18/86)
- (3) Copy of the partial directional antenna proofs of performance made in accordance with § 73.154 and made pursuant to the following requirements: (Added 86-484, 12/18/86)
 - (i) Section 73.68, Sampling systems for antenna monitors. (Added 86-484, 12/18/86)
 - (ii) Section 73.69, Antenna monitors. (Added 86-484, 12/18/86)
 - (iii) Section 73.61, AM directional antenna field strength ~~and proof of performance~~ measurements.

73.1226 AVAILABILITY TO FCC OF STATION LOGS AND RECORDS.

The following shall be made available to any authorized representative of the FCC upon request: (Added 78-681, 10/16/78)

- (a) Station records and logs shall be made available for inspection or duplication at the request of the FCC or its representative. Such logs or records may be removed from the licensee's possession by an FCC representative or, upon request, shall be mailed by the licensee to the FCC by either registered mail, return receipt requested, or certified mail, return receipt requested. The return receipt shall be retained by the licensee as part of the station records until such records or logs are returned to the licensee. A receipt shall be furnished when the logs or records are removed from the licensee's possession by an FCC representative and this receipt shall be retained by the licensee as part of the station records until such records or logs are returned to the licensee. When the FCC has no further need for such records or logs, they shall be returned to the licensee. The provisions of this rule shall apply solely to those station logs and records which are required to be maintained by the provisions of this chapter. (Added 78-681, 10/16/78)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (1) Logs and records stored on microfilm, microfiche or other data-storage systems are subject to the requirements pertaining thereto found in § 73.1840(b). (Added 80-315, 10/16/80)
- (b) Where records or logs are maintained as the official records of a recognized law enforcement agency and the removal of the records from the possession of the law enforcement agency will hinder its law enforcement activities, such records will not be removed pursuant to this section if the chief of the law enforcement agency promptly certifies in writing to the FCC that removal of the logs or records will hinder law enforcement activities of the agency, stating insofar as feasible the basis for his decision and the date when it can reasonably be expected that such records will be released to the FCC. (Added 78-681, 10/16/78)
- (c) The following contracts, agreements, or understandings, which need not be filed with the FCC (per § 73.3613, Filing of contracts), must be kept at the station and made available for inspection by any authorized representative of the FCC upon request: (Revised 83-154, 6/27/83)
 - (1) Contracts relating to the sale of broadcast time to "time brokers" for resale. (Revised 83-154, 6/27/83)
 - (2) FM subchannel leasing agreements for subsidiary communications. (Revised 83-154, 6/27/83)
 - (3) Time sales contracts with the same sponsor for 4 or more hours per day, except where the length of the events (such as athletic contests, musical programs, and special events) broadcast pursuant to the contract is not under control of the station. (Revised 83-154, 6/27/83)

[Next Page is No. 573]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (4) Contracts with chief operators or other engineering personnel. (Revised 83-154, 6/37/83)

73.1230 POSTING OF STATION LICENSES.

(a) The station license and any other instrument of station authorization shall be posted in a conspicuous place and in such a manner that all terms are visible at the place the licensee considers to be the principal control point of the transmitter. ~~At all other control or ATS monitoring and alarm points a photocopy of the station license and other authorizations shall be posted.~~

(b) Posting of the station license and any other instruments of authorization shall be done by affixing them to the wall at the posting location, or by enclosing them in a binder or folder which is retained at the posting location so that the documents will be readily available and easily accessible.

73.1250 BROADCASTING EMERGENCY INFORMATION.

(a) Emergency situations in which the broadcasting of information is considered as furthering the safety of life and property include, but are not limited to the following: Tornadoes, hurricanes, floods, tidal waves, earthquakes, icing conditions, heavy snows, widespread fires, discharge of toxic gases, widespread power failures, industrial explosions, civil disorders and school closings and changes in school bus schedules resulting from such conditions. See also § 73.3542, Application for Emergency Authorization, for requirements involving emergency situations not covered by this section for which prior operating authority must be requested. (Revised 7/31/85)

(b) If requested by responsible public officials, a station may, at its discretion, and without further FCC authority, transmit emergency point-to-point messages for the purpose of requesting or dispatching aid and assisting in rescue operations. (Added 78-681, 10/16/78)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(c) If the Emergency Alert System (EAS) is activated for a national emergency while a Local Area or State emergency operation is in progress, the national level EAS operation must take precedence. If, during the broadcasting of Local Area or State emergency information, the EAS codes or Attention Signal described in § 11.12 of this chapter are used, the broadcasts are considered as being carried out under a Local Area or State EAS plan. (Revised 94-288, 1/27/95)

(d) Any emergency operation undertaken in accordance with this section may be terminated by the FCC if required in the public interest. (Added 78-681, 10/16/78)

(e) Immediately upon cessation of an emergency during which broadcast facilities were used for the transmission of point-to-point messages under paragraph (b) of this section, or when daytime facilities were used during nighttime hours by an AM station in accordance with paragraph (f) of this section, a report in letter form shall be forwarded to the FCC in Washington, D.C., setting forth the nature of the emergency, the dates and hours of the broadcasting of emergency information, and a brief description of the material carried during the emergency. A certification of compliance with the noncommercialization provision of paragraph (f) of this section must accompany the report where daytime facilities are used during nighttime hours by an AM station, together with a detailed showing, under the provisions of that paragraph, that no other broadcast service existed or was adequate. (Added 78-681, 10/16/78)

(f) AM stations may, without further FCC authority, use their full daytime facilities during nighttime hours to broadcast emergency information (examples listed in paragraph (a) of this section), when necessary to the safety of life and property, in dangerous conditions of a general nature and when adequate advance warning cannot be given with the facilities authorized. Because of skywave interference impact on other stations assigned to the same channel, such operation may be undertaken only if regular, unlimited-time service, is non-existent, inadequate from the standpoint of coverage, or not serving the public need. All operation under this paragraph must be conducted on a noncommercial basis. Recorded music may be used to the extent necessary to provide program continuity. (Added 78-681, 10/16/78)

(g) Broadcasting of emergency information shall be confined to the hours, frequencies, powers and modes of operation specified in the station license, except as otherwise provided for AM stations in paragraph (f) of this section. (Added 78-681, 10/16/78)

[Next Page is No. 574.1]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

¹(h) Any emergency information transmitted by a TV station in accordance with this section shall be transmitted both aurally and visually or only visually. TV stations may use any method of visual presentation which results in a legible message conveying the essential emergency information. Methods which may be used include, but are not necessarily limited to, slides, electronic captioning, manual methods (e.g., hand printing) or mechanical printing processes. However, when an emergency operation is being conducted under a national, State or Local Area Emergency Alert System (EAS) plan, emergency information shall be transmitted both aurally and visually unless only the EAS codes are transmitted as specified in § 11.51(b) of this chapter.

73.1300 UNATTENDED STATION OPERATION.

Broadcast stations may be operated as either attended (where a designated person is responsible for the proper operation of the transmitting apparatus either at the transmitter site, a remote control point or an ATS control point) or unattended (where highly stable equipment or automated monitoring of station operating parameters is employed). No prior FCC approval is required to operate a station in the unattended mode. Regardless of which method of station operation is employed, licensees must employ procedures which will ensure compliance with Part 11 of this chapter, the rules governing the Emergency Alert System (EAS).

73.1350 TRANSMISSION SYSTEM OPERATION.

(a) Each licensee is responsible for maintaining and operating its broadcast station in a manner which complies with the technical rules set forth elsewhere in this part and in accordance with the terms of the station authorization.

(b) The licensee must designate a chief operator in accordance with § 73.1870. The licensee may designate one or more technically competent persons to adjust the transmitter operating parameters for compliance with the technical rules and the station authorization.

- (1) Persons so authorized by the licensee may make such adjustments directly at the transmitter site or by using control equipment at an off-site location.
- (2) The transmitter control personnel must have the capability to turn the transmitter off at all times. If the personnel are at a remote location, the control system must provide this capability continuously or must include an alternate method of acquiring control that can satisfy the requirement of paragraph (d) of this section that operation be terminated within 3 minutes.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(c) The licensee must establish monitoring procedures and schedules for the station and the indicating instruments employed must comply with § 73.1215.

- (1) Monitoring procedures and schedules must enable the licensee to determine compliance with § 73.1560 regarding operating power and AM station mode of operations, § 73.1570 regarding modulation levels, and, where applicable, § 73.1213 regarding antenna tower lighting, and § 73.69 regarding the parameters of an AM directional antenna system.
- (2) Monitoring equipment must be periodically calibrated so as to provide reliable indications of transmitter operating parameters with a known degree of accuracy. Errors inherent in monitoring equipment and the calibration procedure must be taken into account when adjusting operating parameters to ensure that the limits imposed by the technical rules and the station authorization are not exceeded.

(d) In the event that a broadcast station is operating in a manner that is not in compliance with the technical rules set forth elsewhere in this part or the terms of the station authorization, and the condition is not listed in paragraph (e) of this section, broadcast operation must be terminated within three hours.

- (1) Examples of conditions that require termination of operation include excessive power or excessive modulation.
- (2) Additional examples for AM stations are any mode of operation not specified by the station license for the pertinent time of day or hours of operation and any condition of antenna parameters or monitoring points out of the tolerances specified elsewhere in this part or by the station's instrument of authorization. For these conditions, operation must be terminated within three minutes unless antenna input power is reduced sufficiently to eliminate any excess radiation.
- (3) For AM stations using directional arrays, additional procedures apply when array operating parameters are at variance, monitoring points exceed specified limits, or authorized directional mode capability is lost. See § 73.62, Directional antenna system tolerances; § 73.158, Directional antenna monitoring points; and § 73.1680(b), Emergency antennas.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(e) If a broadcast station is operating in a manner that is not in compliance with one of the following technical rules, operation may continue if the station complies with relevant alternative provisions in the specified rules section. (Added 95-412, 12/1/95)

- (1) AM directional antenna system tolerances, *see* § 73.62; (Added 95-412, 12/1/95)
- (2) AM directional antenna monitoring points, *see* § 73.158; (Added 95-412, 12/1/95)
- (3) TV visual waveform, *see* § 73.691(b); (Added 95-412, 12/1/95)
- (4) Reduced power operation, *see* § 73.1560(d); (Added 95-412, 12/1/95)
- (5) Reduced modulation level, *see* § 73.1570(a); (Added 95-412, 12/1/95)
- (6) Emergency antennas, *see* § 73.1680, (Added 95-412, 12/1/95)

(f) The transmission system must be maintained and inspected in accordance with § 73.1580. (Added 95-412, 12/1/95)

(g) Whenever a transmission system control point is established at a location other than at the main studio or transmitter, a letter of notification of that location must be sent to the FCC in Washington, DC. Attention: Audio Services Division (radio) or Video Services Division (television). Mass Media Bureau, within 3 days of the initial use of that point. The letter should include a list of all control points in use, for clarity. This notification is not required if responsible station personnel can be contacted at the transmitter or studio site during hours of operation.

(h) The licensee must ensure that the station is operated in compliance with Part 11 of this chapter, the rules governing the Emergency Alert System (EAS). (Added 95-412, 12/1/95)

73.1400 TRANSMISSION SYSTEM MONITORING AND CONTROL (Added 95-412, 12/1/95)

The licensee of an AM, FM, or TV station is responsible for assuring that at all times the station operates within tolerances specified by applicable technical rules contained in this part and in accordance with the terms of the station authorization. Any method of complying with applicable tolerances is permissible. The following are typical methods of transmission system operation: (Added 95-412, 12/1/95)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(a) **ATTENDED OPERATION.** (Added 95-412, 12/1/95)

- (1) Attended operation consists of ongoing supervision of the transmission facilities by a station employee or other person designated by the licensee. Such supervision may be accomplished by either: (Added 95-412, 12/1/95)
 - (i) Direct supervision and control of transmission system parameters by a person at the transmitter site; or (Added 95-412, 12/1/95)
 - (ii) Remote control of the transmission system by a person at the main studio or other location. The remote control system must provide sufficient transmission system monitoring and control capability so as to ensure compliance with § 73.1350. (Added 95-412, 12/1/95)
- (2) A station may also be monitored and controlled by an automatic transmission system (ATS) that is configured to contact a person designated by the licensee in the event of a technical malfunction. An automatic transmission system consists of monitoring devices, control and alarm circuitry, arranged so that they interact automatically to operate the station's transmitter and maintain technical parameters within licensed values. (Added 95-412, 12/1/95)
- (3) A hybrid system containing some remote control and some ATS features is also permissible. (Added 95-412, 12/1/95)
- (4) In the case of remote control or ATS operation, not every station parameter need be monitored or controlled if the licensee has good reason to believe that its stability is so great that its monitoring and control are unnecessary. (Added 95-412, 12/1/95)

(b) **UNATTENDED OPERATION.** (Added 95-412, 12/1/95)

Unattended operation is either the absence of human supervision or the substitution of automated supervision of a station's transmission system for human supervision. In the former case, equipment is employed which is expected to operate within assigned tolerances for extended periods of time. The latter consists of the use of a self-monitoring or ATS-monitored and controlled transmission system that, in lieu of contacting a person designated by the licensee, automatically takes the station off the air within three hours of any technical malfunction which is capable of causing interference. (Added 95-412, 12/1/95)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.1410 [REMOVED]
REMOTE CONTROL OPERATION.

(a) Broadcast stations operated by remote control must provide at remote control points sufficient control and operating parameter monitoring capability to allow technical operation in compliance with the rules applicable to that station and the terms of the station authorization. AM stations that are required to change modes of operation during the broadcast day must provide sufficient redundancy to assure that such mode changes actually occur. (Added 84-549, 12/1/84)

(b) The remote control system must be designed, installed, and protected so that the transmitter can be activated or controlled only by licensed transmitter operators authorized by the licensee. (Added 84-549, 12/1/84)

(c) The remote control and monitoring equipment must be calibrated and tested as often as necessary to ensure proper operation. (Added 84-549, 12/1/84)

(d) The remote control system must be designed so that malfunctions in the circuits between the control point and transmitter will not cause the transmitter to be inadvertently activated or to change operating modes or output power. (Added 84-549, 12/1/84)

(e) Whenever a malfunction causes loss of accurate indications of the transmitter operating parameters, use of remote control must be discontinued within 3 hours after the malfunction is first detected. If the station is found to be operating beyond the terms of the station authorization and such malfunction cannot be corrected by remote control, station operation must be immediately terminated. (Added 84-549, 12/1/84)

(f) AM stations may use amplitude or phase modulation of the carrier wave for remote control telemetry and alarm purposes. FM stations may use aural subcarriers and TV stations may use either aural subcarriers or signals within the vertical blanking interval for telemetry and alarm purposes. Use of such remote control signals must be in accordance with the technical standards for the particular class of station. (Added 84-549, 12/1/84)

73.1500 [REMOVED]
AUTOMATIC TRANSMISSION SYSTEM (ATS).

An automatic transmission system consists of monitoring devices, control, and alarm circuitry, arranged so that they interact automatically to operate a broadcast station's transmitter and maintain technical parameters within licensed values. (Added 85-653, 2/5/86)

[Next Page is No. 575]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (a) ~~Licenses of AM, FM, or TV broadcast stations may utilize an automatic transmission system (ATS) in lieu of either direct or remote control of the station transmitting system. (Added 85-653, 2/5/86~~
- (b) ~~No authorization from the FCC is required to operate the transmitter using an automatic transmission system. Prior to commencing use of the ATS, the station chief operator, technical director, or consulting engineer shall certify in writing to the station licensee that the system has been installed, tested, and fully complies with all prescribed technical standards of the Rules applicable to the particular class of station. (Added 85-653, 2/5/86~~
- (c) ~~Broadcast stations operating automatic transmission systems must be provided with one or more ATS duty operator points. Each such point shall have a means to turn the transmitting apparatus off at all times. (Added 85-653, 2/5/86~~
- (d) ~~Whenever an automatic transmission system duty operator point is established at a location other than at the main studio or transmitter, notification of that location must be sent to the FCC in Washington, D.C., within 3 days of initial use of that point. This notification is not required if responsible station personnel may be contacted at the transmitter or studio site during hours of operation where the ATS duty operator is elsewhere. (Added 85-653, 2/5/86~~
- (e) ~~The ATS must incorporate circuits that will terminate station transmission within 3 minutes if the adjustment controls do not correct an operating condition which is capable of causing interference. (Added 85-653, 2/5/86~~
- (f) ~~The transmitting apparatus must be manually activated at the beginning of each broadcast period. (Added 85-653, 2/5/86~~
- (g) ~~For AM station operation, the ATS may incorporate a means to transmit emergency information under the provisions of § 73.1250(f). (Added 85-653, 2/5/86~~

73.1510 EXPERIMENTAL AUTHORIZATIONS.

(a) Licensees of broadcast stations may obtain experimental authorizations to conduct technical experimentation directed toward improvement of the technical phases of operation and service, and for such purposes may use a signal other than the normal broadcast program signal. (Added 78-502, 8/1/78)

73.1510(b)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(b) Experimental authorizations may be requested by filing an informal application with the FCC in Washington, D.C., describing the nature and purpose of the experimentation to be conducted, the nature of the experimental signal to be transmitted, and the proposed schedule of hours and duration of the experimentation. Experimental authorizations shall be posted with the station license. (Added 78-502, 8/1/78)

(c) Experimental operations are subject to the following conditions: (Added 78-502, 8/1/78)

- (1) The authorized power of the station may not be exceeded, except as specifically authorized for the experimental operations. (Added 78-502, 8/1/78)
- (2) Emissions outside the authorized bandwidth must be attenuated to the degree required for the particular type of station. (Added 78-502, 8/1/78)
- (3) The experimental operations may be conducted at any time the station is authorized to operate, but the minimum required schedule of programming for the class and type of station must be met. AM stations also may conduct experimental operations during the experimental period (12 midnight local time to local sunrise) and at additional hours if permitted by the experimental authorization provided no interference is caused to other stations maintaining a regular operating schedule within such period(s). (Added 78-502, 8/1/78)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (2) A licensee or permittee having a sampling system in compliance with the provisions of § 73.68(a) must request remote control authorization on FCC Form 301-A, and submit information showing that the directional antenna sampling system has been constructed according to the specifications of § 73.68(a).
- (3) A licensee or permittee of a station not having an approved directional sampling system in compliance with the provisions of § 73.68(a) must request remote control authorization on FCC Form 301-A, and submit information showing that the directional antenna is in proper adjustment and further showing the stability of the antenna system during the 1-year period specified in Section II of Form 301-A.

(c) Whenever a remote control point is established at a location other than at the main studio or transmitter, notification of that remote location must be sent to the FCC in Washington, D.C., within 3 days of initial use of that point. This notification is not required if responsible station personnel may be contacted at the transmitter or studio site during hours of operation when the remote control operator is elsewhere.

73.1410 REMOTE CONTROL OPERATION.

(a) Broadcast stations operated by remote control must provide at remote control points sufficient control and operating parameter monitoring capability to allow technical operation in compliance with the rules applicable to that station and the terms of the station authorization. AM stations that are required to change modes of operation during the broadcast day must provide sufficient redundancy to assure that such mode changes actually occur.

(b) The remote control system must be designed, installed, and protected so that the transmitter can be activated or controlled only by licensed transmitter operators authorized by the licensee.

(c) The remote control and monitoring equipment must be calibrated and tested as often as necessary to ensure proper operation.

(d) The remote control system must be designed so that malfunctions in the circuits between the control point and transmitter will not cause the transmitter to be inadvertently activated or to change operating modes or output power.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(e) Whenever a malfunction causes loss of accurate indications of the transmitter operating parameters, use of remote control must be discontinued within 3 hours after the malfunction is first detected. If the station is found to be operating beyond the terms of the station authorization and such malfunction cannot be corrected by remote control, station operation must be immediately terminated. (Added 84-549, 12/1/84)

(f) AM stations may use amplitude or phase modulation of the carrier wave for remote control telemetry and alarm purposes. FM stations may use aural subcarriers and TV stations may use either aural subcarriers or signals within the vertical blanking interval for telemetry and alarm purposes. Use of such remote control signals must be in accordance with the technical standards for the particular class of station. (Added 84-549, 12/1/84)

73.1500 AUTOMATIC TRANSMISSION SYSTEM (ATS).

An automatic transmission system consists of monitoring devices, control, and alarm circuitry, arranged so that they interact automatically to operate a broadcast station's transmitter and maintain technical parameters within licensed values.

- (a) Licensees of AM, FM, or TV broadcast stations may utilize an automatic transmission system (ATS) in lieu of either direct or remote control of the station transmitting system.
- (b) No authorization from the FCC is required to operate the transmitter using an automatic transmission system. Prior to commencing use of the ATS, the station chief operator, technical director, or consulting engineer shall certify in writing to the station licensee that the system has been installed, tested, and fully complies with all prescribed technical standards of the Rules applicable to the particular class of station.
- (c) Broadcast stations operating automatic transmission systems must be provided with one or more ATS duty operator points. Each such point shall have a means to turn the transmitting apparatus off at all times.
- (d) Whenever an automatic transmission system duty operator point is established at a location other than at the main studio or transmitter, notification of that location must be sent to the FCC in Washington, D.C., within 3 days of initial use of that point. This notification is not required if responsible station personnel may be contacted at the transmitter or studio site during hours of operation where the ATS duty operator is elsewhere.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (e) The ATS must incorporate circuits that will terminate station transmission within 3 minutes if the adjustment controls do not correct an operating condition which is capable of causing interference.
- (f) The transmitting apparatus must be manually activated at the beginning of each broadcast period.
- (g) For AM station operation, the ATS may incorporate a means to transmit emergency information under the provisions of § 73.1250(f).

73.1510 EXPERIMENTAL AUTHORIZATIONS.

(a) Licensees of broadcast stations may obtain experimental authorizations to conduct technical experimentation directed toward improvement of the technical phases of operation and service, and for such purposes may use a signal other than the normal broadcast program signal. (Added 78-502, 8/1/78)

(b) Experimental authorizations may be requested by filing an informal application with the FCC in Washington, D.C., describing the nature and purpose of the experimentation to be conducted, the nature of the experimental signal to be transmitted, and the proposed schedule of hours and duration of the experimentation. Experimental authorizations shall be posted with the station license. (Added 78-502, 8/1/78)

(c) Experimental operations are subject to the following conditions: (Added 78-502, 8/1/78)

- (1) The authorized power of the station may not be exceeded, except as specifically authorized for the experimental operations. (Added 78-502, 8/1/78)
- (2) Emissions outside the authorized bandwidth must be attenuated to the degree required for the particular type of station. (Added 78-502, 8/1/78)
- (3) The experimental operations may be conducted at any time the station is authorized to operate, but the minimum required schedule of programming for the class and type of station must be met. AM stations also may conduct experimental operations during the experimental period (12 midnight local time to local sunrise) and at additional hours if permitted by the experimental authorization provided no interference is caused to other stations maintaining a regular operating schedule within such period(s). (Added 78-502, 8/1/78)

[Next Page is No. 577]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (4) If an experimental authorization permits the use of additional facilities or hours of operation for experimental purposes, no sponsored programs or commercial announcements may be transmitted during such experimentation. (Added 78-502, 8/1/78)
 - (5) The licensee may transmit regularly scheduled programming concurrently with the experimental transmission if there is no significant impairment of service. (Added 78-502, 8/1/78)
 - (6) No charges may be made, either directly or indirectly, for the experimentation; however, normal changes may be made for regularly scheduled programming transmitted concurrently with the experimental transmissions. (Added 78-502, 8/1/78)
- (d) The FCC may request a report of the research, experimentation and results at the conclusion of the experimental operation. (Added 78-502, 8/1/78)

73.1515 SPECIAL FIELD TEST AUTHORIZATIONS.

(a) A special field test authorization may be issued to conduct field strength surveys to aid in the selection of suitable sites for broadcast transmission facilities, determine coverage areas, or to study other factors influencing broadcast signal propagation. The applicant for the authorization must be qualified to hold a license under Section 303(l)(1) of the Communications Act.

(b) Requests for authorizations to operate a transmitter under a Special field test authorization must be in writing using an informal application in letter form, signed by the applicant and including the following information:

- (1) Purpose, duration and need for the survey.
- (2) Frequency, transmitter output powers and time of operation.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (3) A brief description of the test antenna system, its estimated effective radiated field and height above ground or average terrain, and the geographic coordinates of its proposed location(s). (Added 79-609, 10/22/79)

(c) Operation under a special field test authorization is subject to the following conditions: (Added 79-609, 10/22/79)

- (1) No objectionable interference will result to the operation of authorized radio services; in this connection, the power requested shall not exceed that necessary for the purposes of the test. (Added 79-609, 10/22/79)
- (2) The carriers will be unmodulated except for the transmission of a test-pattern on a visual TV transmitter, and for hourly voice station identification on aural AM, FM and TV transmitters. (Added 79-609, 10/22/79)
- (3) The transmitter output power or antenna input power may not exceed those specified in the test authorization and the operating power must be maintained at a constant value for each phase of the tests. (Added 79-609, 10/22/79)
- (4) The input power to the final amplifier stage, and the AM antenna current or the FM or TV transmitter output power must be observed and recorded at half hour intervals and at any time that the power is adjusted or changed. Copies of these records must be submitted to the FCC with the required report. (Edit. Amdt. 1/27/84)
- (5) The test equipment may not be permanently installed, unless such installation has been separately authorized. Mobile units are not deemed permanent installations. (Added 79-609, 10/22/79)
- (6) Test transmitters must be operated by or under the immediate direction of an operator holding a General Radiotelephone Operator License commercial radio operator license (any class, unless otherwise endorsed).

~~NOTE: Operators holding valid First Class or Second Class Radiotelephone Operator Licenses will comply with the requirements of this paragraph.~~

[Next Page is No. 578.1]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (7) A report, containing the measurements, their analysis and other results of the survey shall be filed with the FCC in Washington, D.C. within sixty (60) days following the termination of the test authorization.
- (8) The test transmission equipment, installation and operation thereof need not comply with the requirements of FCC rules and standards except as specified in this Section if the equipment, installation and operation are consistent with good engineering principles and practices.

(d) A special field test authorization may be modified or terminated by notification from the FCC if in its judgment such action will promote the public interest, convenience and necessity. (Added 79-609, 10/22/79)

73.1520 OPERATION FOR TESTS AND MAINTENANCE.
(Added 78-502, 8/1/78)

(a) Broadcast stations may be operated for tests and maintenance of their transmitting systems on their assigned frequencies using their licensed operating power and antennas during their authorized hours of operation without specific authorization from the FCC.

(b) Licensees of AM stations may operate for tests and maintenance during the hours from 12 midnight local time to local sunrise, if no interference is caused to other stations maintaining a regular operating schedule within such period. No AM station licensed for "daytime" or "specified hours" of operation may broadcast any regular or scheduled programs during this period of test and maintenance operation.

(c) Licensees of AM stations ~~must~~ may obtain a special antenna equipment test authorizations, ~~using the procedures described in §1-544(a) in order to operate with authorized nighttime power and directional antenna system during daytime hours when necessary to conduct monitor point field strength measurements-~~ and operate under the provisions described in §73.157, to operate with nighttime facilities during daytime hours in conducting directional antenna field strength and antenna proof of performance measurements.

73.1530 PORTABLE TEST STATIONS. [DEFINITION]

A portable test station is one that is moved from place to place for making field strength and ground conductivity measurements, for selecting station transmitter sites, and conducting other specialized propagation tests. Portable test stations are not normally used while in motion, and may not be used for the transmission of programs intended to be received by the public. (Added 78-502, 8/1/78)

[Next Page is No. 579]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.1540 CARRIER FREQUENCY MEASUREMENTS.
(Added 78-502, 8/1/78)

(a) The carrier frequency of each AM and FM station and the visual carrier frequency and ~~the~~ difference between the visual carrier and the aural carrier or center frequency of each TV station shall be measured or determined as often as necessary to ~~insure~~ ensure that they are maintained within the prescribed tolerances. ~~In any event, each station with an authorized operating power greater than 10 watts shall make at least one measurement or determination each calendar month with intervals not exceeding 40 days between successive measurements for each main transmitter in use.~~

(b) In measuring the carrier frequency, the licensee may use any method or procedure that has sufficient precision to establish that the carrier frequency is within the prescribed departure limits.

(c) The primary standard of frequency for radio frequency measurements is the standard frequency maintained by the National Bureau of Standards or the standard signals of Stations WWV, WWVB, and WWVH of the National Bureau of Standards.

73.1545 CARRIER FREQUENCY DEPARTURE TOLERANCES.

(a) **AM STATIONS.**

The departure of the carrier frequency for monophonic transmissions or center frequency for stereophonic transmissions may not exceed ± 20 Hz from the assigned frequency. (Revised 82-11, 4/26/82)

(b) **FM STATIONS.**

- (1) The departure of the carrier or center frequency of an FM station with an authorized transmitter output power more than 10 watts may not exceed ± 2000 Hz from the assigned frequency.
- (2) The departure of the carrier or center frequency of an FM station with an authorized transmitter output power of 10 watts or less may not exceed ± 3000 Hz from the assigned frequency. (Added 79-609, 10/22/79)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(c) TV STATIONS.

- (1) The departure of the visual carrier frequency of a TV station may not exceed ± 1000 Hz from the assigned visual carrier frequency. (Added 79-609, 10/22/79)
- (2) The departure of the aural carrier frequency of a TV station may not exceed ± 1000 Hz from the actual visual carrier frequency plus exactly 4.5 MHz. (Added 79-609, 10/22/79)

(d) INTERNATIONAL BROADCAST STATIONS.

The departure of the carrier frequency of an International broadcast station may not exceed 0.0015% of the assigned frequency on which the station is transmitting. (Added 79-609, 10/22/79)

73.1550 ~~EXTENSION METERS.~~

~~(a) A broadcast station may, without further authority from the FCC, install and use extension meters and monitoring devices provided: (Added 78-681, 10/16/78)~~

- ~~(1) The transmitter is in the same building as the normal operating location of the station's licensed operator and is no more than one floor above or below the normal operating location. (Added 78-681, 10/16/78)~~
- ~~(2) The path from the normal operating location to the transmitter is no longer than 30.5 meters (100 feet) and provides the operator with ready access to the transmitter. (Edit. Amdt. 6/5/85)~~
- ~~(3) The required extension meters and monitoring devices are sufficiently close to the operator's normal operating location that deviations from normal indications of such instruments can be observed from that location. (Added 78-681, 10/16/78)~~
- ~~(4) The transmitter is installed and protected so it is not accessible to unauthorized persons. (Added 78-681, 10/16/78)~~

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (5) ~~Each extension meter or monitoring device required for the type of station, pursuant to paragraph (b) of this section, shall continuously sample the parameter for which it is installed and constantly indicate that parameter. (Added 78-681, 10/16/78)~~
- (6) ~~Installation and operation of these meters shall be in accordance with the requirements prescribed for their corresponding regular meters and monitoring devices. (Added 78-681, 10/16/78)~~
- (7) ~~Devices used in obtaining extension meter indications do not affect the accuracy of their corresponding regular meters. (Added 78-681, 10/16/78)~~

(b) ~~Extension metering and monitoring devices shall be installed as follows: (Added 78-681, 10/16/78)~~

(1) ~~AM STATIONS.~~

- (i) ~~Meters for indicating the DC input power of the last radio frequency power amplifier stage of the transmitter. (Added 78-681, 10/16/78)~~
- (ii) ~~A meter for indicating non-directional antenna current or directional antenna common point current. (Added 78-681, 10/16/78)~~
- (iii) ~~For stations using directional antenna systems, either the antenna monitor or external meters meeting the specifications for accuracy and repeatability prescribed for the monitor itself. (Edit Amdt., 10/1/85)~~

(2) ~~FM STATIONS OPERATING WITH TRANSMITTER OUTPUT POWER MORE THAN 10 WATTS.~~

- (i) ~~Meters for indicating the DC input power to the last radio frequency power amplifier stage of the transmitter. (Added 78-681, 10/16/78)~~
- (ii) ~~A meter for indicating the relative transmission line voltage, current or power. (Added 78-681, 10/16/78)~~

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

~~(3) FM STATIONS OPERATING WITH TRANSMITTER POWER OF 10 WATTS OR LESS.~~

- ~~(i) An indicator to show when the transmitter is in operation. (Added 78-681, 10/16/78)~~

~~(4) TV STATIONS.~~

- ~~(i) Meters for indicating the DC input power to the last radio frequency power amplifier stages for the aural and visual transmitters. (Added 78-681, 10/16/78)~~

- ~~(ii) Meters for indicating the relative transmission time voltage, current or power for the aural and visual transmitters.~~

- ~~(iii) Visual monitoring equipment suitable for monitoring the visual signal so that it may be maintained in accordance with the FCC requirements. (Edit. Admt., 8/12/85)~~

~~(e) The extension meters required, pursuant to paragraph (b) of this section, must be calibrated against their corresponding regular meters as often as necessary to ensure their accuracy, and, (Revised 83-338, 9/19/83)~~

- ~~(1) In no event shall an extension meter be calibrated against another remote or extension meter. (Edit. Admt., 8/12/85)~~

- ~~(2) Each extension meter shall be accurate to within 2 percent of the value read on its corresponding regular meter. (Edit. Admt., 8/12/85)~~

- ~~(3) For AM stations, such calibrations shall be made for each mode of operation. (Edit. Admt., 8/12/85)~~

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

~~(d) If a malfunction of any component of the extension metering or monitoring system causes inaccurate readings, the following procedures shall apply:~~

~~(1) ALL STATIONS.~~

~~If the malfunction affects the meters for indicating the DC input power to the last radio stage of the transmitter power amplifier, the indications must be read at the transmitter. (Revised 9/8/83, 83-337)~~

~~(2) AM STATIONS.~~

~~In addition to paragraph (d)(1) of this section, if the malfunction affects the extension indications of antenna or common point am meter, the operating power may be determined by the indirect method using the procedures described in § 73.51(e) for a period not to exceed 60 days. Alternatively, the operating power may be determined by the direct method on a continued basis by reading the regular antenna or common point ammeter for each mode of operation until the defective extension metering is repaired. (Revised 9/19/83, 83-338)~~

~~(3) FM STATIONS.~~

~~In addition to paragraph (d)(1) of this section if the malfunction affects the transmission line meter, the indications must be read at the transmitter. (Revised 9/19/83, 83-338)~~

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

~~(4) TV STATIONS.~~

~~In addition to paragraph (d)(1) of this section, if the malfunction affects the transmission line meter(s), indications must be read at the transmitter. If the malfunction affects the indications of the visual monitoring equipment, the licensee must, pending repair or replacement, provide other suitable means for monitoring visual modulation at the extension meter location. (Revised 83-338, 9/19/83)~~

~~(e) If a malfunctioning component cannot be repaired or replaced within 60 days from the date faulty operation is detected, the Engineer-in-Charge of the radio district in which the station is located must be notified and request made for such additional time as is needed to complete the necessary repairs or replacement. (Revised 83-338, 9/19/83)~~

73.1560 OPERATING POWER AND MODE TOLERANCES.

(a) AM STATIONS.

- (1) Except as provided for in paragraph (d) of this section, the antenna input power of an AM station as determined by the procedures specified in § 73.51 must be maintained as near as is practicable to the authorized antenna input power and may not be less than 90% nor more than 105% of the authorized power. (Revised 12/1/84, 84, 549)
- (2) Whenever the transmitter of an AM station cannot be placed into the specified operating mode at the time required, transmissions of the station must be immediately terminated. However, if the radiated field at any bearing or elevation does not exceed that permitted for that time of day, operation in the mode with the lesser radiated field may continue under the notification procedures of paragraph (d) of this section. (Added 12/1/84, 84, 549)

(b) FM STATIONS.

Except as provided in paragraph (d) of this section, the transmitter output power of an AM station, with power output as determined by the procedures specified in § 73.267, which is authorized for output power more than 10 watts must be maintained as near as practicable to the authorized transmitter output power and may not be less than 90% nor more than 105% of the authorized power. FM stations operating with authorized transmitter output power of 10 watts or less, may operate at less than the authorized power, but not more than 105% of the authorized power. (Edit. Amdt. 7/18/84)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(c) **TV STATIONS.**

- (1) Except as provided in paragraph (d) of this section, the visual output power of a TV transmitter, as determined by the procedures specified in § 76.663, must be maintained as near as is practicable to the authorized transmitter output power and may not be less than 80% nor more than 110% of the authorized power. (Revised 84-165, 5/31/84)
- (2) The output power of the aural transmitter shall be maintained to provide an aural carrier ERP not to exceed 22% of the peak authorized visual ERP. (Edit. Amdt. 6/27/85)
- (3) The FCC may specify deviation from the power of tolerance requirements for subscription television operations to the extent it deems necessary to permit proper operation. (Added 84-165, 5/31/84)

(d) **REDUCED POWER OPERATION.**

In the event it becomes technically impossible to operate at ~~with the~~ authorized power, a broadcast station may operate at reduced power for a period of not more than 30 days without specific authority from the FCC. If operation at reduced power will exceed 10 consecutive days, ~~a~~ notification must be made ~~sent~~ to the FCC in Washington, DC, Attention: Audio Services Division (radio) or Video Services Division (television), Mass Media Bureau, not later than the 10th day of the lower power operation. In the event ~~the~~ that normal power is restored within ~~prior to the expiration of~~ the 30 day period, the licensee must notify the FCC of the date that normal operation was restored ~~upon restoration of normal operation~~. If causes beyond the control of the licensee prevent restoration of authorized power within 30 days, a request for Special Temporary Authority (see § 73.1635) ~~a~~ ~~an~~ ~~informal written request~~ must be made to the FCC in Washington, DC, ~~no~~ ~~later than the 30th day~~ for ~~the~~ additional time as may be necessary.

73.1570 MODULATION LEVELS: AM, FM, AND TV AURAL.

(a) The percentage of modulation is to be maintained at as high a level as is consistent with good quality of transmission and good broadcast service, with maximum levels not to exceed the values specified in paragraph (b). Generally, the modulation should not be less than 85% on peaks of frequent recurrence, but where lower modulation levels may be required to avoid objectionable loudness or to maintain the dynamic range of the program material, the degree of modulation may be reduced to whatever level is necessary for this purpose, even though under such circumstances, the level may be substantially less than that which produces peaks of frequent recurrence at a level of 85%. (Added 79-609, 10/22/79)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(b) Maximum modulation levels must meet the following limitations: (Added 79-609, 10/22/79)

(1) **AM STATIONS.**

In no case shall the amplitude modulation of the carrier wave exceed 100% on negative peaks of frequent recurrence, or 125% on positive peaks at any time. (Revised 82-111, 4/26/82)

(i) AM stations transmitting stereophonic programs shall not exceed the AM maximum stereophonic transmission signal modulation specifications of stereophonic systems in use. (Revised 82-111, 4/26/82)

(ii) For AM stations transmitting telemetry signals for remote control or automatic transmission system operation, the amplitude of modulation of the carrier by the use of subaudible tones must not be higher than necessary to effect reliable and accurate data transmission and may not, in any case, exceed 6%.

(2) **FM STATIONS.**

The total modulation must not exceed 100 percent on peaks of frequent recurrence referenced to 75 kHz deviation. However, stations providing subsidiary communications services using subcarriers under provisions of § 73.319 concurrently with the broadcasting of stereophonic or monophonic programs may increase the peak modulation deviation as follows: (Added 84-113, 3/29/84)

(i) The total peak modulation may be increased 0.5 percent for each 1.0 percent subcarrier injection modulation. (Added 84-113, 3/29/84)

(ii) In no event may the modulation of the carrier exceed 110 percent (82.5 kHz peak deviation). (Added 84-113, 3/29/84)

[Next Page is No. 586.1]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(3) TV STATION.

In no case shall the total modulation of the aural carrier exceed 100% on peaks of frequent recurrence, unless some other peak modulation level is specified in an instrument of authorization. For monophonic transmissions, 100% modulation is defined as ± 25 kHz. (Added 84-521, 12/7/84)

(c) If a limiting or compression amplifier is employed to maintain modulation levels, precaution must be taken so as not to substantially alter the dynamic characteristics of programs. (Added 76-609, 10/22/79)

73.1580 TRANSMISSION SYSTEM INSPECTIONS.

Each AM, FM, and TV station licensee or permittee must conduct a periodic complete inspections of the transmitting system and all required monitors ~~as often as necessary~~ to ensure proper station operation.

73.1590 EQUIPMENT PERFORMANCE MEASUREMENTS.

(a) The licensee of each AM, FM, and TV station, except licensees of Class D non-commercial educational FM stations authorized to operate with 10 watts or less output power, must make equipment performance measurements for each main transmitter as follows: (Edit. Amdt.5/20/86)

- (1) Upon initial installation of a new or replacement main transmitter. (Edit. Amdt. 5/20/86)
- (2) Upon modification of an existing transmitter made under the provisions of § 73.1690, Modification of transmission systems, and specified therein. (Edit. Amdt. 5/20/86)
- (3) Installation of AM stereophonic transmission equipment pursuant to § 73.128. (Edit. Amdt. 5/20/86)
- (4) Installation of FM subcarrier or stereophonic transmission equipment pursuant to § 73.295, § 73.297, § 73.593 or § 73.597. (Edit. Amdt. 5/20/86)
- (5) Installation of TV stereophonic or subcarrier transmission equipment pursuant to §§ 73.669 and 73.1690. (Edit. Amdt. 5/20/86)
- (6) Annually, for AM stations, with not more than 14 months between measurements. (Edit. Amdt. 5/20/86)
- (7) When required by other provisions of the rules or the station license. (Edit. Amdt. 5/20/86)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(b) Measurements for spurious and harmonic emissions must be made to show compliance with the transmission system requirements of § 73.44 for AM stations; § 73.317 for FM stations and § 73.687 for TV stations. Measurements must be made under all conditions of modulation expected to be encountered by the station whether transmitting monophonic or stereophonic programs and providing subsidiary communications services.

(c) TV visual equipment performance measurements must be made with the equipment adjusted for normal program operation at the transmitter antenna sampling port to yield the following information:

- (1) Field strength or voltage of the lower side-band for a modulating frequency of 1.25 MHz or greater, (including 3.58 MHz for color), and of the upper side-band for a modulating frequency of 4.75 MHz or greater.
- (2) Data showing that the waveform of the transmitted signal conforms to that specified by the standards for TV transmissions.
- (3) Photographs of a test pattern taken from a receiver or monitor connected to the transmitter output.
- (4) Data showing envelope delay characteristics of the radiated signal.
- (5) Data showing the attenuation of spurious and harmonic radiation, if, after type acceptance, any changes have been made in the transmitter or associated equipment (filters, multiplexer, etc.) which could cause changes in its radiation products.

(d) The data required by paragraphs (b) and (c) of this section, together with a description of the equipment and procedure used in making the measurements, signed and dated by the qualified person(s) making the measurements, must be kept on file at the transmitter or remote control point for a period of 2 years, and on request must be made available during that time to duly authorized representatives of the FCC. (Added 84-521, 12/7/84)

[Next Page is No. 586.5]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

EDITOR'S NOTE: Section 73.1610(a) and (b) are so completely revised as of July 31, 1985 that the previous wording is not shown. Section 73.1615 is revised in its entirety.

73.1610 EQUIPMENT TESTS.

(a) During the process of construction of a new broadcast station, the permittee, after notifying the FCC in Washington, D.C. may, without further authority from the FCC, conduct equipment tests for the purpose of making such adjustments and measurements as may be necessary to assure compliance with the terms of the construction permit, the technical provisions of the application therefore, the rules and regulations and the applicable engineering standards. For AM stations, equipment tests, including either a directional or nondirectional proof of performance required by the construction permit, may be conducted during daytime hours provided that the antenna system is first substantially tuned during the experimental period. The nondirectional proof shall be conducted with power adjusted to 25% of that specified in the permit for the authorized directional facilities or, if applicable, to such higher power as is specified in the same permit for authorized nondirectional facilities. For licensed stations, see §73.1615, Operation During Modification of Facilities; and §73.157, Antenna Testing During Daytime.

(b) The FCC may notify the permittee not to conduct equipment tests or may modify, cancel, suspend, or change the modes of testing or the dates and time for such tests in order to resolve interference complaints or when such action may appear to be in the public interest, convenience, and necessity.

(c) Equipment tests may be continued as long as the construction permit shall remain valid. (Added 78-502, 8/1/78)

(d) The authorization for tests embodied in this section shall not be construed as constituting a license to operate but as a necessary part of construction. (Edit. Amdt. 8/31/82)

73.1615 OPERATION DURING MODIFICATION OF FACILITIES.

When the licensee of an existing AM, FM or TV station is in the process of modifying existing facilities as authorized by a construction permit and determines it is necessary to either discontinue operation or to operate with temporary facilities to continue program service, the following procedures apply:

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (a) Licensees holding a construction permit for modification of a directional or nondirectional FM and TV or nondirectional AM station facilities may, without specific FCC authority, for a period not exceeding 30 days:
- (1) Discontinue operation, or
 - (2) Operate with temporary facilities to maintain, as nearly as possible, but not exceed, the size of the presently licensed coverage area.
- (b) Licensees of an AM station holding a construction permit which involves directional facilities and which does not involve a change in operating frequency may, without specific FCC authority, for a period not exceeding 30 days:
- (1) Discontinue operation, or
 - (2) Operate with reduced power or with parameters at variance from licensed tolerances while maintaining monitoring point field strengths within licensed limits during the period subsequent to the commencement of modifications authorized by the construction permit, or
 - (3) Operate in a nondirectional mode during the presently licensed hours of directional operation with power reduced to 25% or less of the nominal licensed power, or whatever higher power, not exceeding licensed power, will insure that the radiated field strength specified by the license is not exceeded at any given azimuth for the corresponding hours of directional operation, or
 - (4) Operate in a nondirectional mode during daytime hours, if not already so licensed, only as necessary to conduct a required nondirectional proof of performance with a power not to exceed 25% of the maximum power authorized by the construction permit for directional operation, or
 - (5) Operate during daytime hours with either the daytime or nighttime directional pattern and with the power authorized by the construction permit only as necessary to take proof of performance measurements. Operating power shall be promptly reduced to presently licensed level during any significant period of time that these measurements are not being taken. No daytime operation of construction permit directional patterns authorized by this paragraph shall be conducted before such patterns have been substantially tuned during the experimental period.

[Next Page is No. 587]

- 586.6 -

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (6) In the event the directional pattern authorized by the construction permit replaces a licensed directional pattern, the licensee may operate with the substantially adjusted construction permit pattern during the corresponding licensed hours of directional operation with power not exceeding that specified for the licensed pattern. (Edit. Amdt., 7/31/85)
- (c) Such operation or discontinuance of operation in accordance with the provisions of paragraph (a) or (b) of this section may begin upon notification to the FCC in Washington, D.C. (Edit. Amdt., 7/31/85)
- (1) Should it be necessary to continue the procedures in either paragraph (a) or (b) of this section beyond 30 days, an informal letter request signed by the licensee or the licensee's representative must be sent to the FCC in Washington, D.C. prior to the 30th day. (Edit. Amdt., 7/31/85)
- (2) The license of a broadcasting station that fails to transmit broadcast signals for any consecutive 12-month period expires as a matter of law at the end of that period, notwithstanding any provision, term, or condition of the license or construction permit to the contrary.
- (d) Licensees of an AM station holding a construction permit which authorizes both a change in frequency and directional facilities must request and obtain authority from the FCC in Washington, D.C. prior to using any new installation authorized by the permit, or using temporary facilities. (Edit. Amdt., 7/31/85)
- (1) The request is to be made at least 10 days prior to the date on which the temporary operation is to commence. The request is to be made by letter which shall describe the operating modes and facilities to be used. Such letter requests shall be signed by the licensee or the licensee's representative. (Edit. Amdt., 7/31/85)
- (2) Discontinuance of operation is permitted upon notification to the FCC in Washington, D.C. Should it be necessary to discontinue operation longer than 30 days, an informal letter request, signed by the licensee or the licensee's representatives, must be sent to the FCC in Washington, D.C. prior to the 30th day. (Edit. Amdt., 7/31/85)
- (e) The FCC may modify or cancel the temporary operation permitted under the provisions of paragraph (a), (b), (c) or (d) of this section without prior notice or right to hearing. (Edit. Amdt., 7/31/85)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.1620 PROGRAM TESTS.

(a) Upon completion of construction of an AM, FM or TV station in accordance with the terms of the construction permit, the technical provisions of the application, the rules and regulations and the applicable engineering standards, program tests may be conducted in accordance with the following: (Added 80-21, 2/8/80)

- (1) The permittee of a nondirectional AM or FM station, or a nondirectional or directional TV station, may begin program tests upon notification to the FCC in Washington, D.C. provided that within 10 days thereafter, an application for a license is filed with the FCC in Washington, D.C. (Editorial Amendment, 8/31/82)
- (2) The permittee of an FM station with a directional antenna system must file an application for license on FCC Form 302-FM requesting authority to commence program test operations at full power with the FCC in Washington, D.C. This license application must be filed at least 10 days prior to the date on which full power operations are desired to commence. The application for license must contain any exhibits called for by conditions on the construction permit. The staff will review the license application and the request for program test authority and issue a letter notifying the applicant whether full power operation has been approved. Upon filing of the license application and related exhibits, and while awaiting approval of full power operation, the FM permittee may operate the directional antenna at one half (50%) of the authorized effective radiated power. Alternatively, the permittee may continue operation with its existing licensed facilities pending the issuance of program test authority at the full effective radiated power by the staff.

[Next Page is No. 588a]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (3) FM licensees replacing a directional antenna pursuant to § 73.1690 (c)(2) without changes which require a construction permit (*see* § 73.1690(b)) may immediately commence program test operations with the new antenna at one half (50%) of the authorized ERP upon installation. If the directional antenna replacement is an EXACT duplicate of the antenna being replaced (i.e., same manufacturer, antenna model number, AND measured composite pattern), program tests may commence with the new antenna at the full authorized power upon installation. The licensee must file a modification of license application on FCC Form 302-FM within 10 days of commencing operations with the newly installed antenna, and the license application must contain all of the exhibits required by § 73.1690(c)(2). After review of the modification-of-license application to cover the antenna change, the Commission will issue a letter notifying the applicant whether program test operation at the full authorized power has been approved for the replacement directional antenna.
- (4) The permittee of an AM station with a directional antenna system must file an application for license on FCC Form 302-AM requesting program test authority with the FCC in Washington, DC at least ten (10) days prior to the date on which it desires to commence program test operations. The application must provide an AM directional antenna proof of performance, containing the exhibits required by § 73.186. After review of the application to cover the construction permit, the Commission will issue a letter notifying the applicant whether program test operations may commence. Program test operations may not commence prior to issuance of staff approval.

(b) The Commission reserves the right to revoke, suspend, or modify program tests by any station without right of hearing for failure to comply adequately with all terms of the construction permit or the provisions of § 73.1690(c) for a modification of license application, or in order to resolve instances of interference. The Commission may, at its discretion, also require the filing of a construction permit application to bring the station into compliance the Commission's rules and policies.

(c) Unless sooner suspended or revoked, the program test authority continues valid during FCC consideration of the application for license, and during this period further extension of the construction permit is not required. Program test authority shall be automatically terminated by final determination upon the application for station license. (Added 78-502, 8/1/78)

73.1620(d)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(d) All operation under program test authority shall be in strict compliance with the rules governing broadcast stations and in strict accordance with representations made in the application for license pursuant to which the tests were authorized. (Added 78-502, 8/1/78)

(e) Acceptance by the FCC of notification of the station of program tests, or the granting of program test authority by the FCC, is not to be construed by the permittee as approval by the FCC of the application for station license. (Revised 80-21, 2/8/80)

[Next Page is No. 588.1]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(f) The licensee of a UHF TV station which is not in operation on, but assigned to, the same allocated channel which a 1000 watt UHF translator station is authorized to use (see §73.516, "Specification of facilities"), shall notify the licensee of the translator station, in writing, at least 10 days prior to commencing or resuming operation. The TV station licensee shall also certify to the FCC in Washington, D.C. that such advance notice has been given to the translator station licensee. (Revised 80-21, 2/8/80)

(g) **REPORTS REQUIRED.**

In their application for a license to cover a construction permit (~~FCC Form 302~~) and on the first anniversary of the commencement of program tests, applicants for new broadcast facilities that were granted after designation for a comparative hearing as a result of a post designation settlement or a decision favoring them after comparative consideration must report.

- (1) Any deviations from comparative proposals relating to integration of ownership and management and diversification of the media of mass communication contained in their application for a construction permit at the time such application was granted; and*
- (2) Any deviations from an active/passive ownership structure proposed in their application for a construction permit at the time such application was granted.*
- (3) The reports referred to in paragraphs (g)(1) and (2) of this section shall not be required in any case in which the order granting the application relieved the applicant of the obligation to adhere to such proposals.*

73.1635 SPECIAL TEMPORARY AUTHORIZATIONS (STA).

(a) A special temporary authorization (STA) is the authority granted to a permittee or licensee to permit the operation of a broadcast facility for a limited period at a specified variance from the terms of the station authorization or requirements of the FCC rules applicable to the particular class of station. (Editorial Amdt. 7/31/85)

- (1) A request for a STA should be filed with FCC in Washington, D.C. at least 10 days prior to the date of the proposed operation. (Editorial Amdt. 7/31/85)

(*Added 90-410, 4/9/91)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (2) The request is to be made by letter and shall fully describe the proposed operation and the necessity for the requested STA. Such letter requests shall be signed by the licensee or the licensee's representative. (Editorial Amdt. 7/31/85)
- (3) A request for a STA necessitated by unforeseen equipment damage or failure may be made without regard to the procedural requirements of this section (e.g. via telegram or telephone). Any request made pursuant to this paragraph shall be followed by a written confirmation request conforming to the requirements of paragraph (a)(2) of this section. Confirmation requests shall be submitted within 24 hours. (See also § 73.1680 Emergency Antennas). (Editorial Amdt. 7/31/85)
- (4) An STA may be granted for an initial period not to exceed 180 days. A limited number of extensions of such authorizations may be granted for additional periods not exceeding 180 days per extension. An STA necessitated by technical or equipment problems, however, may, in practice, be granted for an initial period not to exceed 90 days with a limited number of extensions not to exceed 90 days per extension. The permittee or licensee must demonstrate that any further extensions requested are necessary and that all steps to resume normal operation are being undertaken in an expeditious and timely fashion. The license of a broadcasting station that fails to transmit broadcast signals for any consecutive 12-month period expires as a matter of law at the end of that period, notwithstanding any STA or provision, term, or condition of the license to the contrary.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (5) Certain rules specify special considerations and procedures in situations requiring an STA or permit temporary operation at variance without prior authorization from the FCC when notification is filed as prescribed in the particular rules. See § 73.62, Directional antenna system tolerances; § 73.157, Antenna testing during daytime; § 73.158, Directional antenna monitoring points; § 73.691, Visual modulation monitoring; § 73.1250, Broadcasting emergency information; § 73.1350, Transmission system operation; § 73.1560, Operating power and mode tolerances; § 73.1570, Modulation levels: AM, FM, and TV aural; § 73.1615, Operation during modification of facilities; § 73.1680, Emergency antennas; and § 73.1740, Minimum operating schedule.

(b) An STA may be modified or cancelled by the FCC without prior notice or right to hearing. (Editorial Amdt. 7/31/85)

(c) No request by an AM station for temporary authority to extend its hours of operation beyond those authorized by its regular authorization will be accepted or granted by the FCC except in emergency situations conforming with the requirements of § 73.3542, Application for Emergency Authorization. See also § 73.1250, Broadcasting Emergency Information. (Editorial Amdt. 7/31/85)

[Next Page is No. 589]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.1650 INTERNATIONAL AGREEMENTS.

(a) The rules in this part 73, and authorizations for which they provide, are subject to compliance with the international obligations and undertakings of the United States. Accordingly, all provisions in this part 73 are subject to compliance with applicable requirements, restrictions, and procedures accepted by the United States that have been established by or pursuant to treaties or other international agreements, arrangements, or understandings to which the United States is a signatory, including applicable annexes, protocols, resolutions, recommendations and other supplementing documents associated with such international instruments. (Edit. Amdt. 9/28/89)

(b) The United States is a signatory to the following treaties and other international agreements that relate, in whole or in part, to AM, FM or TV broadcasting: (Edit. Amdt. 9/28/89)

- (1) The following instruments of the International Telecommunication Union: (Edit. Amdt. 9/28/89)
 - (i) Constitution.
 - (ii) Convention.
 - (iii) Radio Regulations.
- (2) Regional Agreement for the MF Broadcasting Service in Region 2: (~~Rio de Janeiro, 1981~~):
 - (i) MF Broadcasting 535-1605 kHz, Rio de Janeiro, 1981.
 - (ii) MF Broadcasting 1605-1705 kHz, Rio de Janeiro, 1988.
- (3) Bilateral Agreements between the United States and Canada relating to: (Edit. Amdt. 9/28/89)
 - (i) AM Broadcasting.
 - (ii) FM Broadcasting.
 - (iii) TV Broadcasting.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (4) Bi-lateral Agreements between the United States and Mexico relating to: (Edit. Amdt. 9/28/89)
 - (i) AM Broadcasting. (Edit. Amdt. 9/28/89)
 - (ii) FM Broadcasting. (Edit. Amdt. 9/28/89)
 - (iii) TV Broadcasting. (Edit. Amdt. 9/28/89)
- (5) Bi-lateral Agreement between the United States and the Bahama Islands relating to presunrise operations by AM stations. (Edit. Amdt. 9/28/89)
- (6) North American Regional Broadcasting Agreement (NARBA), which, for the United States, remains in effect with respect to the Dominican Republic and the Bahama Islands. (Edit. Amdt. 9/28/89)

The documents listed in this paragraph are available for inspection in the office of the Chief, ~~Policy and Rules Division, Mass Media Bureau, Planning and Negotiations Division, International Bureau~~, FCC, Washington, DC. Copies may be purchased from the FCC Copy Contractor, whose name may be obtained from the FCC Consumer Assistance Office.

[Next Page is No. 590.1]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.1660 ACCEPTABILITY OF BROADCAST TRANSMITTERS.

(a) An AM, FM or TV transmitter ~~may shall~~ be ~~type accepted~~ verified for compliance with the requirements of this part or notified upon the request of any manufacturer of transmitters following the procedures described in ~~p~~Part 2 of the FCC ~~r~~Rules. ~~If acceptable, the transmitter will be included in the FCC's "Radio Equipment List, Equipment Acceptable for Licensing."~~ Since March 5, 1984, these transmitters have been authorized under notification.

(b) ~~A permittee or licensee planning to install and use as a main transmitter one not included on the FCC's "Radio Equipment List" must obtain authority to use such a transmitter by filing for a construction permit on FCC Form 301 (FCC Form 340 for noncommercial educational stations). The application must include a complete description and circuit diagram of the transmitter, description of the carrier frequency determining circuits, complete operating parameters, and measurement data as would be required for a grant of type acceptance. A permittee or licensee planning to modify a transmitter which has been approved by the FCC or verified for compliance is included on the FCC's "Radio Equipment List" or for which an FCC Form 301 has been submitted and approved, must follow the requirements contained in § 73.1690.~~

(c) A transmitter which was in use prior to January 30, 1955, may continue to be used by the licensee, and successors or assignees, if it continues to comply with the technical requirements for the type of station at which it is used. (Added 78-788, 11/20/78)

(d) AM stereophonic exciter-generators for interfacing with ~~type accepted or notified~~ approved or verified AM transmitters may be ~~type accepted~~ certified upon request from any manufacturer ~~by in accordance with~~ the procedures described in ~~p~~Part 2 of the FCC Rules. Broadcast licensees may modify their ~~type accepted~~ certified AM stereophonic exciter-generators in accordance with § 73.1690.

(e) Additional rules covering ~~type acceptance and notification, certification and verification,~~ modification of authorized transmitters, and withdrawal of a grant of authorization are contained in ~~p~~Part 2 of the FCC ~~r~~Rules.

73.1665 MAIN TRANSMITTERS.

(a) Each AM, FM and TV broadcast station must have at least one main transmitter which complies with the provisions of the transmitter technical requirements for the type and class of station. A main transmitter is one which is used for regular program service having power ratings appropriate for the authorized operating power(s). (Edit. Amdt. 5/20/86)

[Next Page is No. 591]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(b) There is no maximum power rating limit for FM or TV station transmitters, however, the maximum rated transmitter power of a main transmitter installed at an AM station shall be as follows: (Added 82-26, 2/19/82)

Authorized Power	Maximum rated transmitter power (kW)
0.25, 0.5, or 1 kW	1
2.5 kW	5
5 or 10 kW	10
25 or 50 kW	50

(c) A licensee may, without further authority or notification to the FCC, replace an existing main transmitter or install additional main transmitter(s) for use with the authorized antenna if the replacement or additional transmitter(s) ~~has been verified for compliance. is type accepted or notified as shown in the FCC's "Radio Equipment List".~~ Within 10 days after commencement of regular use of the replacement or additional transmitter(s), equipment performance measurements, as prescribed for the type of station are to be completed.

NOTE TO PARAGRAPH (c): Pending the availability of AM broadcast transmitters that are ~~type accepted~~ approved or verified for use in the 1605—1705 kHz band, transmitters that are approved or verified ~~type accepted~~ for use in the 535—1605 kHz band ~~as shown on the FCC's Radio Equipment List~~ may be utilized in the 1605—1705 kHz band if it is shown that the requirements of § 73.44 have been met. Verification or FCC approval of the manufacturer's application for type-acceptance transmitter will ~~may~~ supersede the applicability of this note.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.1670 AUXILIARY TRANSMITTERS.

(a) A licensee of a broadcast station may, without further authority from the FCC, install and use with the main antenna system one or more auxiliary transmitters for the following purposes: (Added 78-788, 11/20/78)

- (1) The transmission of regular programs upon failure of the main transmitter. (Added 78-788, 11/20/78)
- (2) The transmission of regular programs during maintenance or modification of the main transmitter. (Added 78-788, 11/20/78)
- (3) Emergency broadcast system operation. (Added 78-788, 11/20/78)
- (4) The transmission of regular programs by an AM station authorized for Pre-sunrise (PSRA) and Post-sunset (PSSA) operation. (Revised 83-412, 10/20/83)
- (5) The transmission of tests to determine the operating condition of the auxiliary transmitter or auxiliary antenna. (Added 78-788, 11/20/78)
- (6) For testing, upon the request of representatives of the FCC. (Added 78-788, 11/20/78)

(b) Authorization to install an auxiliary transmitter for use with other than the main antenna or authorized auxiliary antenna must be obtained by filing an application for a construction permit on FCC Form 301 (FCC Form 340 for noncommercial educational stations). (Edit. Amdt. 9/9/86)

(c) The following technical and operating standards apply to auxiliary transmitters: (Edit. Amdt. 4/25/79)

- (1) The auxiliary transmitter may be operated on only the station's authorized frequency and within the required carrier frequency departure tolerance for the type of station. (Added 78-788, 11/20/78)
- (2) The carrier frequency of the auxiliary transmitter must be measured as often as necessary to ensure that it is maintained within the prescribed tolerance. (Revised 83-338, 9/19/83)

[Next Page is No. 592.1]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (3) When using an auxiliary transmitter, the operating power may be less than the authorized power but may not exceed the authorized power within the permitted tolerance for the type of station. If operation with an auxiliary transmitter at reduced power continues for a period exceeding 10 days, the FCC in Washington, D.C. must be notified. (See § 73.51, AM; § 73.267, FM; § 73.567, NCE-FM; and § 73.663, TV). (Editorial Amdt. 8/12/85)
- (4) Normal operator requirements apply to the operation of the auxiliary transmitter. (Editorial Amdt. 8/12/85)

NOTE: After January 1, 1979, new licenses will not be issued nor will existing licenses be renewed for auxiliary transmitters that are operated into the main antenna system. (Added 78-788, 11/20/78)

73.1675 AUXILIARY ANTENNAS FACILITIES.

(a) An auxiliary antenna is one that is permanently installed and available for use when the main antenna is out of service for repairs or replacement. An auxiliary antenna may be located at the same transmitter site as the station's main antenna or at a separate site. In either case, however, the coverage area when operating with the auxiliary antenna may not extend beyond the coverage area of the main antenna. An application for an auxiliary antenna authorization filed under the procedures given in paragraphs (b) or (c) of this section must contain a map showing the following contours for both the main and auxiliary antenna radiation: (Revised 80-165, 4/30/80)

- (1) **AM STATIONS:** The 0.5 mv/m field strength contours. (Added 80-165, 4/30/80)
- (2) **FM STATIONS:** The 1.0 mv/m field strength contours. (Added 80-165, 4/30/80)
- (3) **TV STATIONS:** The Grade B coverage contours. (Added 80-165, 4/30/80)

(b) An application for a construction permit to install a new auxiliary antenna, or to make changes in an existing auxiliary antenna for which prior FCC authorization is required (see § 73.1690), must be filed on FCC Form 301 (FCC Form 340 for noncommercial educational stations). (Edit. Amdt. 4/9/85)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (c) (1) Where an FM or TV licensee proposes to use a formerly licensed main facility as an auxiliary facility, or proposes to modify a presently authorized auxiliary facility, and no changes in the height of the antenna radiation center are required in excess of the limits in § 73.1690(c)(1), the FM or TV licensee may apply for the proposed auxiliary facility by filing a modification of license application. The modified auxiliary facility must operate on the same channel as the licensed main facility. An exhibit must be provided with this license application to demonstrate compliance with § 73.1675(a). All FM or TV licensees may request a decrease from the authorized facility's ERP in the license application. An FM or TV licensee may also increase the ERP of the auxiliary facility in a license modification application, provided the application contains an analysis demonstrating compliance with the Commission's radiofrequency radiation guidelines, and an analysis showing that the auxiliary facility will comply with § 73.1675(a). Auxiliary facilities mounted on an AM antenna tower must also demonstrate compliance with § 73.1692 in the license application.
- (2) Where an AM licensee proposes to use a former licensed main facility as an auxiliary facility with an ERP less than or equal to the ERP specified on the former main license, the AM station may apply to license the proposed auxiliary facility by filing a modification of license application on Form 302-AM. The proposed auxiliary facilities must have been previously licensed on the same frequency as the present main facility. The license application must contain an exhibit to demonstrate compliance with § 73.1675(a).

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.1680 EMERGENCY ANTENNAS.

(a) An emergency antenna is one that is erected for temporary use after the authorized main and auxiliary antennas are damaged and cannot be used. (Added 78-788, 11/20/78)

(b) Prior authority from the FCC is not required by licensees and permittees to erect and commence using an emergency antenna to restore program service to the public. However, an informal letter request to continue operation with the emergency antenna must be made within 24 hours to the FCC in Washington, DC, Attention: Audio Services Division (radio) or Video Services Division (television), Mass Media Bureau, within 24 hours after commencement of its use. The request is to include a description of the damage to the authorized antenna, a description of the emergency antenna, and the station operating power with the emergency antenna.

(1) **AM STATIONS.**

AM stations may use a horizontal or vertical wire or a nondirectional vertical element of a directional antenna as an emergency antenna. AM stations using an emergency nondirectional antenna or a horizontal or vertical wire pursuant to this section, in lieu of authorized directional facilities, shall operate with power reduced to 25% or less of the nominal licensed power, or, a higher power, not exceeding licensed power, while insuring that the radiated field strength does not exceed that authorized in any given azimuth for the corresponding hours of directional operation. (Edit. Amdt. 7/31/85)

(2) **FM AND TV STATIONS.**

FM and TV stations may erect any suitable radiator, or use operable sections of the authorized antenna(s) as an emergency antenna. (Added 78-788, 11/20/78)

(c) The FCC may prescribe the output power, radiation limits, or other operating conditions when using an emergency antenna, and emergency antenna authorizations may be modified or terminated in the event harmful interference is caused to other stations or services by the use of an emergency antenna. (Added 78-788, 11/20/78)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.1690 MODIFICATION OF TRANSMISSION SYSTEMS.

The following procedures and restrictions apply to licensee modifications of authorized broadcast transmission system facilities. (Added 82-26, 2/19/82)

- (a) The following changes are prohibited: (Added 82-26, 2/19/82)
- (1) Those that would result in the emission of signals outside of the authorized channel exceeding limits prescribed for the class of service. (Added 82-26, 2/19/82)
 - (2) Those that would cause the transmission system to exceed the equipment performance measurements prescribed for the class of service, (AM, § 73.44; FM, §§ 73.317, 73.319, and 73.322; TV, §§ 73.682 and 73.687). (Added 82-26, 2/19/82)
- (b) The following changes may be made only after the grant of a construction permit application on FCC Form 301 for commercial stations or Form 340 for noncommercial educational stations:
- (1) Any construction of a new tower structure for broadcast purposes, except for replacement of an existing tower with a new tower of identical height and geographic coordinates.
 - (2) Any change in station geographic coordinates, including coordinate corrections. FM and TV directional stations must also file a construction permit application for any move of the antenna to another tower structure located at the same coordinates.
 - (3) Any change which would require an increase along any azimuth in the composite directional antenna pattern of an FM station from the composite directional antenna pattern authorized (*see* § 73.316), or any increase from the authorized directional antenna pattern for a TV station (*see* § 73.685).
 - (4) Any change in the directional radiation characteristics of an AM directional antenna system. *See* § 73.45 and § 73.150.
 - (5) Any decrease in the authorized power of an AM station or the ERP of a TV station, or any decrease or increase in the ERP of an FM commercial station, which is intended for compliance with the multiple ownership rules in § 73.3555.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (6) For FM noncommercial educational stations, any of the following:
 - (i) Any increase in the authorized maximum ERP, whether horizontally or vertically polarized, for a noncommercial educational FM station operating on Channels 201 through 220, or a Class D FM station operating on Channel 200.
 - (ii) For those FM noncommercial educational stations on Channels 201 to 220, or a Class D FM station operating on Channel 200, which are within the separation distances specified in Table A of § 73.525 with respect to a Channel 6 television station, any increase in the horizontally or vertically polarized ERP from the presently authorized ERP.
 - (iii) For those FM noncommercial educational stations on Channels 201 through 220 which are located within the separation distances in § 73.525 with respect to a Channel 6 television station, or a Class D FM station operating on Channel 200, any decrease in the presently authorized horizontal effective radiated power which would eliminate the horizontal ERP to result in use of vertical ERP only.
 - (iv) For those FM noncommercial educational stations which employ separate antennas for the horizontal ERP and the vertical ERP, mounted at different heights, the station may not increase or decrease either the horizontal ERP or the vertical ERP without a construction permit.
- (7) Any increase in the authorized ERP of a television station, FM commercial station, or noncommercial educational FM station, except as provided for in §§ 73.1690(c)(4), (c)(5), or (c)(7), or § 73.1675(c)(1) in the case of auxiliary facilities.
- (8) A commercial TV or noncommercial educational TV station operating on Channels 14 or Channel 69 may increase its horizontally or vertically polarized ERP only after the grant of a construction permit. A television station on Channels 15 through 21 within 341 km of a cochannel land mobile operation, or 225 km of a first-adjacent channel land mobile operation, must also obtain a construction permit before increasing the horizontally or vertically polarized ERP (*see* Part 74, § 74.709(a) and (b) for tables of urban areas and corresponding reference coordinates of potentially affected land mobile operations).

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (c) The following FM and TV station modifications may be made without prior authorization from the Commission. A modification of license application must be submitted to the Commission within 10 days of commencing program test operations pursuant to § 73.1620. With the exception of applications filed solely pursuant to Sections (c)(6), (c)(9), or (c)(10), the modification of license application must contain an exhibit demonstrating compliance with the Commission's radiofrequency radiation guidelines. In addition, except for applications solely filed pursuant to Sections (c)(6) or (c)(9), where the installation is located within 3.2 km of an AM tower or is located on an AM tower, an exhibit demonstrating compliance with § 73.1692 is also required.
- (1) Replacement of an omnidirectional antenna with one of the same or different number of antenna bays, provided that the height of the antenna radiation center is not more than 2 meters above or 4 meters below the authorized values. Any concurrent change in ERP must comply with § 73.1675(c)(1), 73.1690(4), (c)(5), or (c)(7). Program test operations at the full authorized ERP may commence immediately upon installation pursuant to § 73.1620(a)(1).
- (2) Replacement of a directional FM antenna, where the measured composite directional antenna pattern does not exceed the licensed composite directional pattern at any azimuth, where no change in effective radiated power will result, and where compliance with the principal coverage requirements of § 73.315(a) will be maintained by the measured directional pattern. The antenna must be mounted not more than 2 meters above or 4 meters below the authorized values. The modification of license application on Form 302-FM to cover the antenna replacement must contain all of the data in the following sections (i) through (v). Program test operations at one half (50%) power may commence immediately upon installation pursuant to § 73.1620(a)(3). However, if the replacement directional antenna is an exact replacement (i.e., no change in manufacturer, antenna model number, AND measured composite antenna pattern), program test operations may commence immediately upon installation at the full authorized power.
- (i) A measured directional antenna pattern and tabulation on the antenna manufacturer's letterhead showing both the horizontally and vertically polarized radiation components and demonstrating that neither of the components exceeds the authorized composite antenna pattern along any azimuth.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (ii) Contour protection stations authorized pursuant to § 73.215 or § 73.509 must attach a showing that the RMS (root mean square) of the composite measured directional antenna pattern is 85% or more of the RMS of the authorized composite antenna pattern. *See* § 73.316(c)(9). If this requirement cannot be met, the licensee may include new relative field values with the license application to reduce the authorized composite antenna pattern so as to bring the measured composite antenna pattern into compliance with the 85% requirement.
 - (iii) A description from the manufacturer as to the procedures used to measure the directional antenna pattern. The antenna measurements must be performed with the antenna mounted on a tower, tower section, or scale model equivalent to that on which the antenna will be permanently mounted, and the tower or tower section must include transmission lines, ladders, conduits, other antennas, and any other installations which may affect the measured directional pattern.
 - (iv) A certificate from a licensed surveyor that the antenna has been oriented to the proper azimuth.
 - (v) A certification from a qualified engineer who oversaw installation of the directional antenna that the antenna was installed pursuant to the manufacturer's instructions.
- (3) A directional TV station on Channels 2 through 13 or 22 through 68, or a directional TV station on Channels 15 through 21 which is in excess of 341 km (212 miles) from a cochannel land mobile operation or in excess of 225 km (140 miles) from a first-adjacent channel land mobile operation (*see* Part 74, § 74.709(a) and (b) for tables of urban areas and reference coordinates of potentially affected land mobile operations), may replace a directional TV antenna by a license modification application, if the proposed horizontal theoretical directional antenna pattern does not exceed the licensed horizontal directional antenna pattern at any azimuth and where no change in effective radiated power will result. The modification of license application on Form 302-TV must contain all of the data set forth in § 73.685(f).

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (4) Commercial and noncommercial educational FM stations operating on Channels 221 through 300 (except Class D), NTSC TV stations operating on Channels 2 through 13 and 22 through 68, and TV stations operating on Channels 15 through 21 that are in excess of 341 km (212 miles) from a cochannel land mobile operation or in excess of 225 km (140 miles) from a first-adjacent channel land mobile operation [see Part 74, § 74.709(a) and (b) for tables of urban areas and reference coordinates of potentially affected land mobile operations], which operate omnidirectionally, may increase the vertically polarized effective radiated power up to the authorized horizontally polarized effective radiated power in a license modification application. Noncommercial educational FM licensees and permittees on Channels 201 through 220, that do not use separate antennas mounted at different heights for the horizontally polarized ERP and the vertically polarized ERP, and are located in excess of the separations from a Channel 6 television station listed in Table A of § 73.525(a)(1), may also increase the vertical ERP, up to (but not exceeding) the authorized horizontally polarized ERP via a license modification application. Program test operations may commence at full power pursuant to § 73.1620(a)(1).
- (5) Those Class A FM commercial stations which were permitted to increase ERP pursuant to MM Docket No. 88-375 by a modification of license application remain eligible to do so, provided that the station meets the requirements of § 73.1690(c)(1) and is listed on one of the Public Notices as authorized to increase ERP, or by a letter from the Commission's staff authorizing the change. These Public Notices were released on November 3, 1989; November 17, 1989; December 8, 1989; March 2, 1990; and February 11, 1991. The increased ERP must comply with the multiple ownership requirements of § 73.3555. Program test operations may commence at full power pursuant to § 73.1620(a)(1).
- (6) FM contour protection stations authorized pursuant to § 73.215 which have become fully spaced under § 73.207 may file a modification of license application to delete the § 73.215 contour protection designation with an exhibit to demonstrate that the station is fully spaced in accordance with § 73.207. The contour protection designation will be removed upon grant of the license application. Applications filed under this rule section will be processed on a first come/first served basis with respect to conflicting FM commercial minor change applications and modification of license applications (including those filed pursuant to § 73.1690(b) and (c)(6) and (c)(7)).

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (7) FM omnidirectional commercial stations, and omnidirectional noncommercial educational FM stations operating on Channels 221 through 300 (except Class D), which are not designated as contour protection stations pursuant to § 73.215 and which meet the spacing requirements of § 73.207, may file a license modification application to increase ERP to the maximum permitted for the station class, provided that any change in the height of the antenna radiation center remains in accordance with § 73.1690(c)(1). Program test operations may commence at full power pursuant to § 73.1620(a)(1). All of the following conditions also must be met before a station may apply pursuant to this section:
- (i) The station may not be a "grandfathered" short-spaced station authorized pursuant to § 73.213 or short-spaced by a granted waiver of § 73.207;
 - (ii) If the station is located in or near a radio quiet zone, radio coordination zone, or a Commission monitoring station (*see* § 73.1030 and § 0.121(c)), the licensee or permittee must have secured written concurrence from the affected radio quiet zone, radio coordination zone, or the Commission's Compliance and Information Bureau in the case of a monitoring station, to increase effective radiated power PRIOR to implementation. A copy of that concurrence must be submitted with the license application to document that concurrence has been received;
 - (iii) The station does not require international coordination as the station does not lie within the border zones, or clearance has been obtained from Canada or Mexico for the higher power operation within the station's specified domestic class and the station complies with § 73.207(b)(2) and (3) with respect to foreign allotments and allocations;
 - (iv) The increased ERP will not cause the station to violate the multiple ownership requirements of § 73.3555.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (8) FM commercial stations and FM noncommercial educational stations may decrease ERP on a modification of license application provided that exhibits are included to demonstrate that all six of the following requirements are met:
- (i) Commercial FM stations must continue to provide a 70 dBu principal community contour over the community of license, as required by § 73.315(a). Noncommercial educational FM stations must continue to provide a 60 dBu contour over at least a portion of the community of license. The 60 and 70 dBu contours must be predicted by use of the standard contour prediction method in § 73.313(b), (c), and (d).
 - (ii) For both commercial FM and noncommercial educational FM stations, the location of the main studio remains within the 70 dBu principal community contour, as required by § 73.1125, or otherwise complies with that rule. The 70 dBu contour must be predicted by use of the standard contour prediction method in § 73.313(b), (c), and (d).
 - (iii) For commercial FM stations only, there is no change in the authorized station class as defined in § 73.211.
 - (iv) For commercial FM stations only, the power decrease is not necessary to achieve compliance with the multiple ownership rule, § 73.3555.
 - (v) Commercial FM stations, noncommercial educational FM stations on Channels 221 through 300, and noncommercial educational FM stations on Channels 200 through 220 which are located in excess of the distances in Table A of § 73.525 with respect to a Channel 6 TV station, may not use this rule to decrease the horizontally polarized ERP below the value of the vertically polarized ERP.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (vi) Noncommercial educational FM stations on Channels 201 through 220 which are within the Table A distance separations of § 73.525, or Class D stations on Channel 200, may not use the license modification process to eliminate an authorized horizontally polarized component in favor of vertically polarized-only operation. In addition, noncommercial educational stations operating on Channels 201 through 220, or Class D stations on Channel 200, which employ separate horizontally and vertically polarized antennas mounted at different heights, may not use the license modification process to increase or decrease either the horizontal ERP or vertical ERP without a construction permit.
- (9) The licensee of an AM, FM, or TV commercial station may propose to change from commercial to noncommercial educational on a modification of license application, provided that the application contains completed Sections II and IV of FCC Form 340. In addition, a noncommercial educational AM licensee, a TV licensee on a channel not reserved for noncommercial educational use, or an FM licensee on Channels 221 to 300 (except Class D FM) on a channel not reserved for noncommercial educational use, may apply to change from educational to commercial via a modification of license application, and no exhibits are required with the application. The change will become effective upon grant of the license application.
- (10) Replacement of a transmission line with one of a different type or length which changes the transmitter operating power (TPO) from the authorized value, but not the ERP, must be reported in a license modification application to the Commission.
- (d) The following changes may be made without authorization from the FCC, however informal notification of the changes must be made according to the rule sections specified: (Added 82-26, 2/19/82)
 - (1) Change in studio location within the principal community contour. See § 73.1125. (Revised 87-137, 7/16/87)
 - (2) Commencement of remote control operation pursuant to §§ 73.1400 and 73.1410. (Edit. Amdt. 10/1/85)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (3) Modification of an AM directional antenna sampling system. See § 73.68. (Added 82-26, 2/19/82)

EDITOR'S NOTE: Section 73.1690(e) has been so completely revised by Amendment No. 86-484 that the previous wording is not shown.

(e) Any electrical and mechanical modification to authorized transmitting equipment that is not otherwise restricted by the preceding provisions of this section, may be made without FCC notification or authorization. Equipment performance measurements must be made within ten days after completing the modifications. (See § 73.1590). An informal statement, diagram, etc. describing the modification must be retained at the transmitter site for as long as the equipment is in use. (Added 86-484, 12/18/86)

**73.1692 BROADCAST STATION CONSTRUCTION NEAR OR
INSTALLATION ON AN AM BROADCAST TOWER.**

Where a broadcast licensee or permittee proposes to mount a broadcast antenna on an AM station tower, or where construction is proposed within 0.8 km of an AM nondirectional tower or within 3.2 km of an AM directional station, the broadcast licensee or permittee is responsible for ensuring that the construction does not adversely affect the AM station, as follows:

(a) **INSTALLATIONS ON AN AM NONDIRECTIONAL TOWER.**

During installation of the broadcast antenna and related equipment, the AM station shall determine operating power by the indirect method (*see* § 73.51). Upon the completion of the installation, antenna impedance measurements on the AM antenna shall be made, and, prior to or simultaneously with the filing of the license application covering the broadcast station installation, an application on FCC Form 302-AM (including a tower sketch of the installation) shall be filed with the Commission for the AM station to return to direct power measurement.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(b) **INSTALLATIONS ON AN AM DIRECTIONAL ARRAY.**

Prior to commencing construction, the broadcast permittee or licensee shall notify the AM station so that, if necessary, the AM station may determine operating power by the indirect method (*see* § 73.51) and request special temporary authority pursuant to § 73.1635 to operate with parameters at variance in order to maintain monitoring point field strengths within authorized limits. Both prior to the commencement of construction and upon completion of construction, a partial proof of performance (as defined by § 73.154) shall be conducted to establish that the AM array has not been adversely affected. Prior to or simultaneously with filing of the license application to cover the broadcast station construction, the results of the partial proof of performance shall be filed with the Commission on Form 302-AM.

(c) **TOWER ERECTIONS OR MODIFICATIONS WITHIN 0.8 km OF AN AM NONDIRECTIONAL TOWER.**

Prior to commencing the construction of tower modifications, or the erection of a new tower, within 0.8 km of an AM nondirectional tower, the broadcast permittee or licensee is required to notify the AM station so that the AM station may commence determining operating power by the indirect method (*see* § 73.51). The broadcast licensee or permittee shall be responsible for the installation and continued maintenance of detuning apparatus necessary to prevent adverse effects on the radiation pattern of the AM station. Both prior to construction of the tower modifications and upon completion of construction, antenna impedance measurements of the AM station shall be made. In addition, sufficient field strength measurements taken at a minimum of 10 locations along each of 8 equally spaced radials, shall be made to establish that the AM radiation pattern is essentially omnidirectional. Prior or simultaneously with the filing of the application for license to cover this permit, the results of the impedance measurements and the field strength measurements shall be filed with the Commission on FCC Form 302-AM for the AM station to return to the direct method of power determination.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(d) TOWER ERECTIONS OR MODIFICATIONS WITHIN 3.2 km OF AN AM DIRECTIONAL STATION.

Prior to commencing construction of tower modifications, or the erection of a new tower structure, within 3.2 km of an AM directional array, the broadcast permittee or licensee shall notify the AM station so that, if necessary, the AM station may determine operating power by the indirect method (*see* § 73.51) and request special temporary authority pursuant to § 73.1635 to operate with parameters at variance in order to maintain monitoring point field strengths within authorized limits. The broadcast licensee or permittee shall be responsible for the installation and continued maintenance of detuning apparatus necessary to prevent adverse effects upon the radiation pattern of the AM station. Both prior to the commencement of construction and upon completion of construction, a partial proof of performance (as defined by § 73.154) shall be conducted to establish that the AM array has not been adversely affected. Prior to or simultaneously with filing of the license application to cover the broadcast station construction, the results of the partial proof of performance shall be filed with the Commission on Form 302-AM.

73.1695 CHANGES IN TRANSMISSION STANDARDS.

The FCC will consider the question whether a proposed change or modification of transmission standards adopted for broadcast stations would be in the public interest, convenience, and necessity, upon petition being filed by the person proposing such change or modification, setting forth the following: (Edit. Amdt. 1/27/84)

- (a) The exact character of the change or modification proposed; (Edit. Amdt. 1/27/84)
- (b) The effect of the proposed change or modification upon all other transmission standards that have been adopted by the FCC for broadcast stations; (Edit. Amdt. 1/27/84)
- (c) The experimentation and field tests that have been made to show that the proposed change or modification accomplishes an improvement and is technically feasible; (Edit. Amdt. 1/27/84)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (d) The effect of the proposed change or modification in the adopted standards upon operation and obsolescence of receivers; (Edit. Amdt. 1/27/84)
 - (1) Should a change of modification in the transmission standards be adopted by the FCC, the effective date thereof will be determined in the light of the considerations mentioned in this paragraph (d); (Edit. Amdt. 1/27/84)
- (e) The change in equipment required in existing broadcast stations for incorporating the proposed change or modification in the adopted standards; and (Edit. Amdt. 1/27/84)
- (f) The facts and reasons upon which the petitioner bases the conclusion that the proposed change or modification would be in the public interest, convenience, and necessity. (Edit. Amdt. 1/27/84)

[Next Page is No. 593]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.1700 BROADCAST DAY.

The term "broadcast day" means that period of time between the station's sign-on and its sign-off. (Added 78-681, 10/16/78)

73.1705 TIME OF OPERATION.

(a) Commercial and noncommercial educational TV and commercial FM stations will be licensed for unlimited time operation. Application may be made for voluntary share-time operation. (Added 78-681, 10/16/78)

(b) Noncommercial educational FM stations will be licensed for unlimited and share time operation according to the provisions of § 73.561. (Added 78-681, 10/16/78)

(c) AM stations in the 535-1705 kHz band will be licensed for unlimited time. In the 535-1605 kHz band, stations that apply for share time and specified hours operations may also be licensed. AM stations licensed to operate daytime-only and limited-time may continue to do so; however, no new such stations will be authorized, except for fulltime stations that reduce operating hours to daytime-only for interference reduction purposes.

73.1710 UNLIMITED TIME.

Operation is permitted 24 hours a day. (Added 78-681, 10/16/78)

73.1715 SHARE TIME.

Operation is permitted by two or more broadcast stations using the same channel in accordance with a division of hours mutually agreed upon and considered part of their licenses. (Added 78-681, 10/16/78)

(a) If the licenses of stations authorized to share time do not specify hours of operation, the licensees shall endeavor to reach an agreement for a definite schedule of periods of time to be used by each. Such agreement shall be in writing and each licensee shall file it in duplicate original with each application to the FCC in Washington, D.C. for renewal of license. If and when such written agreements are properly filed in conformity with this Section, the file mark of the FCC will be affixed thereto, one copy will be retained by the FCC, and one copy returned to the licensee to be posted with the station license and considered as a part thereof. If the license specifies a proportionate time division, the agreement shall maintain this proportion. If no proportionate time division is specified in the license, the licensees shall agree upon a division of time. Such division of time shall not include simultaneous operation of the stations unless specifically authorized by the terms of the license. (Edit. Amdt. 8/31/82)

[Next Page is No. 594.1]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (b) If the licensees of stations authorized to share time are unable to agree on a division of time, the FCC in Washington, D. C. shall be so notified by a statement filed with the applications for renewal of licenses. Upon receipt of such statement, the FCC will designate the applications for a hearing and, pending such hearing, the operating schedule previously adhered to shall remain in full force and effect.
- (c) A departure from the regular schedule in a time-sharing agreement will be permitted only in cases where an agreement to that effect is put in writing, is signed by the licensees of the stations affected thereby and filed in triplicate by each licensee with the FCC in Washington, D. C. prior to the time of the time of the proposed change. If time is of the essence, the actual departure in operating schedule may precede the actual filing of written agreement, provided appropriate notice is sent to the FCC.
- (d) If the license of an AM station authorized to share time does not specify the hours of operation, the station may be operated for the transmission of regular programs during the experimental period provided an agreement thereto is reached with the other stations with which the broadcast day is shared:

AND FURTHER PROVIDED, Such operation is not in conflict with § 73.72 (Operating during the experimental period). Time-sharing agreements for operation during the experimental period need not be submitted to the FCC.

- (e) Noncommercial educational FM stations are authorized to share time operation according to the provisions of § 73.561.

73.1720 DAYTIME.

Operation is permitted during the hours between average monthly local sunrise and average monthly local sunset.

- (a) The controlling times for each month of the year are stated in the station's instrument of authorization. Uniform sunrise and sunset times are specified for all of the days of each month, based upon the actual times of sunrise and sunset for the fifteenth day of the month adjusted to the nearest quarter hour. Sunrise and sunset times are derived by using the standardized procedure and the tables in the 1946 American Nautical Almanac issued by the United States Naval Observatory.

[Next Page is No. 595]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.1725 LIMITED TIME.

(a) Operation is applicable only to Class B (secondary) AM stations on a clear channel with facilities authorized before November 30, 1959. Operation of the secondary station is permitted during daytime and until local sunset if located west of the Class A station on the channel, or until local sunset at the Class A station if located east of that station. Operation is also permitted during nighttime hours not used by the Class A station or other stations on the channel.

(b) No authorization will be granted for:

- (1) A new limited time station;
- (2) A limited time station operating on a changed frequency;
- (3) A limited time station with a new transmitter site materially closer to the 0.1 mV/m contour of a co-channel U.S. Class A station; or
- (4) Modification of the operating facilities of a limited time station resulting in increased radiation toward any point on the 0.1 mV/m contour of a co-channel U.S. Class A station during the hours after local sunset in which the limited time station is permitted to operate by reason of location east of the Class A station.

(c) The licensee of a secondary station which is authorized to operate limited time and which may resume operation at the time the Class A station (or stations) on the same channel ceases operation shall, with each application for renewal of license, file in triplicate a copy of its regular operating schedule. It shall bear a signed notation by the licensee of the Class A station of its objection or lack of objection thereto. Upon approval of such operating schedule, the FCC will affix its file mark and return one copy to the licensee authorized to operate limited time. This shall be posted with the station license and considered as a part thereof. Departure from said operating schedule will be permitted only pursuant to § 73.1715 (Share time).

[Next Page is No. 597]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.1730 SPECIFIED HOURS.

(a) Specified hours stations must operate in accordance with the exact hours specified in their license. However, such stations, operating on local channels, unless sharing time with other stations, may operate at hours beyond those specified in their licenses to carry special events programming. When such programs are carried during nighttime hours, the station's authorized nighttime facilities must be used. (Added 78-681, 10/16/78)

(b) Other exceptions to the adherence to the schedule of specified hours of operation are provided in § 73.72 (Operating during the experimental period), § 73.1250 (Broadcasting emergency information) and § 73.1740 (Minimum operating schedule). (Added 78-681, 10/16/78)

73.1735 AM STATION OPERATION PRE-SUNRISE AND POST-SUNSET.

Certain classes of AM stations are eligible to operate pre-sunrise and/or post-sunset for specified periods with facilities other than those specified on their basic instruments of authorization. Such pre-sunrise and post-sunset operation is authorized pursuant to the provisions of § 73.99 of the Rules. (Revised 83-412, 10/20/83)

73.1740 MINIMUM OPERATING SCHEDULE.

(a) All commercial broadcast stations are required to operate not less than the following minimum hours: (Added 78-681, 10/16/78)

(1) **AM AND FM STATIONS.**

Two-thirds of the total hours they are authorized to operate between 6 a.m. and 6 p.m. local time and two-thirds of the total hours they are authorized to operate between 6 p.m. and midnight, local time, each day of the week except Sunday. (Added 78-681, 10/16/78)

(i) Class D stations which have been authorized nighttime operations need comply only with the minimum requirements for operation between 6 a.m. and 6 p.m. local time.

(2) **TV STATIONS.**

(i) During the first 36 months of operation, not less than 2 hours daily in any 5 broadcast days per calendar week and not less than a total of: (Added 78-681, 10/16/78)

(A) 12 hours per week during the first 18 months. (Added 78-681, 10/16/78)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (B) 16 hours per week during the 19th through 24th months. (Revised 78-681, 10/16/78)
 - (C) 20 hours per week during the 25th through 30th months. (Revised 78-681, 10/16/78)
 - (D) 24 hours per week during the 31st through 36th months. (Revised 78-681, 10/16/78)
- (ii) After 36 months of operation, not less than 2 hours in each day of the week and not less than a total of 28 hours per calendar week. (Revised 78-681, 10/16/78)
 - (iii) Visual transmissions of test patterns, slides, or still pictures accompanied by unrelated aural transmissions may not be counted in computing program service (see § 73.653). (Revised 78-681, 10/16/78)
- (3) "Operation" includes the period during which the station is operated pursuant to temporary authorization or program tests, as well as during the license period. (Revised 78-681, 10/16/78)
 - (4) In the event that causes beyond the control of a licensee make it impossible to adhere to the operating schedule of this section or to continue operating, the station may limit or discontinue operation for a period of not more than 30 days without further authority from the FCC. Notification must be sent to the FCC in Washington, D.C. not later than the 10th day of limited or discontinued operation. During such period, the licensee shall continue to adhere to the requirements in the station license pertaining to the lighting of antenna structures. In the event normal operation is restored prior to the expiration of the 30-day period, the licensee will so notify the FCC of this date. If the causes beyond the control of the licensee make it impossible to comply within the allowed period, informal written request shall be made to the FCC no later than the 30th day for such additional time as may be deemed necessary. (Revised 78-681, 10/16/78)
- (b) Noncommercial educational AM and TV stations are not required to operate on a regular schedule and no minimum hours of operation are specified; but the hours of actual operation during a license period shall be taken into consideration in the renewal of noncommercial educational AM and TV broadcast licenses. Noncommercial educational FM stations are subject to the operating schedule requirements according to the provisions of § 73.561. (Revised 78-681, 10/16/78)

[Next Page is No. 601]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(c) The license of any broadcasting station that fails to transmit broadcast signals for any consecutive 12-month period expires as a matter of law at the end of that period, notwithstanding any provision, term, or condition of the license to the contrary. (Added 96-218, 6/6/96)

73.1745 UNAUTHORIZED OPERATION.

(a) No broadcast station shall operate at times, or with modes or power, other than those specified and made a part of the license, unless otherwise provided in this part. (Added 78-681, 10/16/78)

(b) Any unauthorized departure from an operating schedule which is required to be filed with the FCC in Washington, D.C. will be considered as a violation of a material term of the license. (Added 78-681, 10/16/78)

73.1750 DISCONTINUANCE OF OPERATION.

The licensee of each station shall notify by letter the FCC in Washington, DC, Attention: Audio Services Division (radio) or Video Services Division (television), Mass Media Bureau, of the permanent discontinuance of operation at least two days before operation is discontinued. Immediately after discontinuance of operation, the licensee shall forward the station license and other instruments of authorization to the FCC, Attention: Audio Services Division (radio) or Video Services Division (television), Mass Media Bureau, Washington, DC for cancellation. The license of any ~~broadcasting~~ station that fails to transmit broadcast signals for any consecutive 12 month period expires as a matter of law at the end of that period, notwithstanding any provision, term, or condition of the license to the contrary. If a licensee surrenders its license pursuant to an interference reduction arrangement, and its surrender is contingent on upon the grant of another application, the licensee ~~surrendering the~~ license must identify in its notification the contingencies involved.

73.1800 GENERAL REQUIREMENTS RELATED TO THE STATION LOG.

(a) The licensee of each station must maintain a station log as required by § 73.1820. This log shall be kept by station employees competent to do so, having actual knowledge of the facts required. All entries, whether required or not by the provisions of this part, must accurately reflect the station operation. Any employee making a log entry shall sign the log, thereby attesting to the fact that the entry, or any correction or addition made thereto, is an accurate representation of what transpired. (Revised 84-294, 9/25/84)

(b) The logs shall be kept in an orderly and legible manner, in suitable form and in such detail that the data required for the particular class of station concerned are readily available. Key letters or abbreviations may be used if the proper meaning or explanation is contained elsewhere in the log. Each sheet must be numbered and dated. Time entries must be made in local time and must be indicated as advanced (e.g., EDT) or non-advanced (e.g., EST) time. (Edit. Amdt. 4/3/84)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(c) Any necessary corrections of a manually kept log after it has been signed in accordance with paragraph (a) of this section shall be made only by striking out the erroneous portion and making a corrective explanation on the log or attachment to it. Such corrections shall be dated and signed by the person who kept the log or the station chief operator, the station manager or an officer of the licensee. (Revised 84-294, 9/25/84)

(d) No automatically kept log shall be altered in any way after entries have been recorded. When automatic logging processes fail or malfunction, the log must be kept manually for that period and in accordance with the requirements of this section. (Added 78-681, 10/16/78)

(e) No log, or portion thereof, shall be erased, obliterated or willfully destroyed during the period in which it is required to be retained. (Section 73.1840, Retention of logs.) (Added 78-681, 10/16/78)

~~(f) — [RESERVED].~~

~~(g)~~ (f) Application forms for licenses and other authorizations may require that certain technical operating data be supplied. These application forms should be kept in mind in connection with the maintenance of the station log.

[Next Page is No. 621]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.1820 STATION LOG.

(a) Entries must be made in the station log either manually by a person designated by the licensee who is properly licensed operator in actual charge of the transmitting apparatus, or by automatic devices meeting the requirements of paragraph (b) of this section. Indications of operating parameters that are required to be logged must be logged prior to any adjustment of the equipment. Where adjustments are made to restore parameters to their proper operating values, the corrected indications must be logged and accompanied, if any parameter deviation was beyond a prescribed tolerance, by a notation describing the nature of the corrective action. Indications of all parameters whose values are affected by the modulation of the carrier must be read without modulation. The actual time of observation must be included in each log entry. The following information must be entered:

(1) ALL STATIONS:

- (i) Entries required by § 17.49 of this chapter concerning any observed or otherwise known extinguishment or improper functioning of a tower light: (Added 83-338, 9/19/83)
 - (A) The nature of such extinguishment or improper functioning. (Added 83-338, 9/19/83)
 - (B) The date and time of the extinguishment or improper operation was observed or otherwise noted. (Added 83-338, 9/19/83)
 - (C) The date, time and nature of adjustments, repairs or replacements made. (Added 83-338, 9/19/83)
- (ii) Any entries not specifically required in this section, but required by the instrument of authorization or elsewhere in this part. (Added 83-338, 9/19/83)
- (iii) An entry of each test and activation of the Emergency Alert System (EAS) pursuant to the requirement of part 11 of this chapter and the EAS Operating Handbook. Stations may keep EAS data in a special EAS log which shall be maintained at a convenient location; however, this log is considered a part of the station log. (Added 94-288, 1/27/95)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(2) **DIRECTIONAL AM STATIONS WITHOUT AN FCC-APPROVED ANTENNA SAMPLING SYSTEM** (See § 73.68):

- (i) An entry at the beginning of operations in each mode of operation, and thereafter at intervals not exceeding 3 hours, of the following (actual readings observed prior to making any adjustments to the equipment and an indication of any corrections to restore parameters to normal operating values): (Added 9/19/83, 83-338)
 - (A) Common point current. (Added 9/19/83, 83-338)
 - (B) When the operating power is determined by the indirect method, the efficiency factor F and either the product of the final amplifier input voltage and current or the calculated antenna input power. See § 73.51(e). (Added 9/19/83, 83-338)
 - (C) Antenna monitor phase or phase deviation indications. (Added 9/19/83, 83-338)
 - (D) Antenna monitor sample currents, current ratios, or ratio deviation indications. (Added 9/19/83, 83-338)
- (ii) Entries required by § 73.61 performed in accordance with the schedule specified therein. (Added 9/19/83, 83-338)
- (iii) Entries of the results of calibration of automatic logging devices (see paragraph (b) of this section), ~~extension meters (see § 73.1550)~~ or indicating instruments (see § 73.67) whenever performed.

(b) Automatic devices accurately calibrated and with appropriate time, date and circuit functions may be utilized to record entries in the station log provided: (Revised 9/19/83, 83-338)

- (1) The recording devices do not affect the operation of circuits or accuracy of indicating instruments of the equipment being recorded; (Added 78-681, 10/16/78)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (2) The recording devices have an accuracy equivalent to the accuracy of the indicating instruments; (Added 78-681, 10/16/78)
- (3) The calibration is checked against the original indicators as often as necessary to ensure recording accuracy; (Added 9/19/83, 83-338)
- (4) ~~Provision is made to actuate automatically an aural alarm circuit located near the operator on duty if any of the automatic log readings are not within the tolerances or other requirements specified in the rules or station license; (Added 78-681, 10/16/78)~~
- (5) ~~The alarm circuit operates continuously or the devices which record each parameter in sequence must read each parameter at least once during each 30 minute period; (Added 78-681, 10/16/78)~~
- (6) ~~The automatic logging equipment is located at the remote control point if the transmitter is remotely controlled, or at the transmitter location if the transmitter is manually controlled; (Added 78-681, 10/16/78)~~
- (7) (4) ~~The automatic logging equipment is located in the near vicinity of the operator on duty and is inspected periodically during the broadcast day. In the event of failure of or malfunctioning of the automatic equipment, the employee person designated by the licensee as being responsible for the log shall make the required entries in the log manually at that time.~~
- (8) (5) The indicating equipment conforms to the requirements of § 73.1215 (Indicating instruments-specifications) except that the scales need not exceed 5 cm (2 inches) in length. Arbitrary scales may not be used.

(c) In preparing the station log, original data may be recorded in rough form and later transcribed into the log. (Added 83-338, 9/19/83)

73.1835 SPECIAL TECHNICAL RECORDS.

The FCC may require a broadcast station licensee to keep operating and maintenance records as necessary to resolve conditions of actual or potential interference, rule violations, or deficient technical operation. (Added 83-338, 9/19/83)

[Next Page is No. 633]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.1840 RETENTION OF LOGS.

(a) Any log required to be kept by station licensees shall be retained by them for a period of 2 years. However, logs involving communications incident to a disaster or which include communications incident to or involved in an investigation by the FCC and about which the licensee has been notified, shall be retained by the licensee until specifically authorized in writing by the FCC to destroy them. Logs incident to or involved in any claim or complaint of which the licensee has notice shall be retained by the licensee until such claim or complaint has been fully satisfied or until the same has been barred by statute limiting the time for filing of suits upon such claims. (Revised 81-17, 4/3/81)

(b) Logs may be retained on microfilm, microfiche or other data-storage systems subject to the following conditions: (Added 81-17, 4/3/81)

- (1) Suitable viewing-reading devices shall be available to permit FCC inspection of logs pursuant to § 73.1226, availability to FCC of station logs and records, ~~and public inspection of program logs pursuant to § 73.1850;~~
- (2) Reproduction of logs, stored on data storage systems, to full-size copies, is required of licensees if requested by the FCC or the public as authorized by FCC rules. Such reproductions must be completed within 2 full work days of the time of the request. (Revised 81-17, 4/3/81)
- (3) Corrections to logs shall be made: (Revised 81-17, 4/3/81)
 - (i) Prior to converting to a data storage system pursuant to the requirements to § 73.1800(c) and (d), (§ 73.1800, General requirements relating to logs). (Added 81-17, 4/3/81)
 - (ii) After converting to a data-storage system, by separately making such corrections and then associating with the related data-stored logs. Such corrections shall contain sufficient information to allow those reviewing the logs to identify where corrections have been made, and when and by whom the corrections were made. (Added 81-17, 4/3/81)
- (4) Copies of any log required to be filed with any application; or placed in the station's local public inspection file as part of an application; or filed with reports to the FCC must be reproduced in fullsize form when complying with these requirements. (Revised 81-17, 4/3/81)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.1850 [DELETED] (84-294, 9/25/84)

73.1860 ~~REMOVED~~
~~TRANSMITTER DUTY OPERATORS.~~

~~(a) Each AM, FM or TV broadcast station must have at least one person holding a commercial radio operator license or permit (any class, unless otherwise endorsed) on duty in charge of the transmitter during all periods of broadcast operation. The operator must be on duty at the transmitter location, a remote control point, an ATS monitor and alarm point, or a position where extension meters are installed under the provisions of § 73.1550. (Edit Admt. 12/26/81)~~

~~(b) The transmitter operator must be able to observe the required transmitter and monitor metering to determine deviations from normal indications. The operator must also be able to make the necessary adjustments from the normal operator duty position, except as provided for in § 73.1550. (Added 81-266, 8/7/81)~~

~~(c) It is the responsibility of the station licensee to ensure that each transmitter operator is fully instructed and capable to perform all necessary observations and adjustments of the transmitting system and other associated operating duties to ensure compliance with the rules and station authorization. (Added 81-266, 8/7/81)~~

~~(d) The transmitter duty operator may, at the discretion of the station licensee and chief operator, be employed for other duties or operation of other transmitting stations if such other duties will not interfere with the proper operation of the broadcast transmission system. (Added 81-266, 8/7/81)~~

[Next Page is No. 637]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.1870 CHIEF OPERATORS.

(a) The licensee of each AM, FM, or ~~RV~~ TV broadcast station must designate a person ~~holding a commercial radio operator license or permit (any class, unless otherwise endorsed)~~ to serve as the station's chief operator. At times when the chief operator is unavailable or unable to act (e.g., vacations, sickness), the licensee shall designate another ~~licensed operator~~ person as the acting chief operator on a temporary basis.

(b) Chief operators shall be employed or serve on the following basis: (Added 81-266, 8/7/81)

- (1) The chief operator for an AM station using a directional antenna or operating with greater than 10 kW authorized power, or of a TV station is to be an employee of the station on duty for whatever number of hours each week the station licensee determines is necessary to keep the station's technical operation in compliance with FCC rules and the terms of the station authorization. (Added 81-266, 8/7/81)
- (2) Chief operators for non-directional AM stations operating with authorized powers not exceeding 10 kW and FM stations may be either an employee of the station or engaged to serve on a contract basis for whatever number of hours each week the licensee determines is necessary to keep the station's technical operation in compliance with the FCC rules and terms of the station authorization. (Added 81-266, 8/7/81)
- (3) The designation of the chief operator must be in writing with a copy of the designation posted with the ~~operator~~ station license. Agreements with chief operators serving on a contract basis must be in writing with a copy kept in the station files.

(c) The chief operator is responsible for the completion of the duties specified in this paragraph below. When these duties are delegated to other persons, the chief operator shall maintain supervisory oversight sufficient to know that each requirement has been fulfilled in a timely and correct manner. (Added 82-304, 8/16/82)

- (1) Inspections and calibrations of the transmission system, required monitors, metering, and control systems; and any necessary repairs or adjustments where indicated. (See § 73.1580.) (Edit. Amdt, 8/12/85)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (2) Periodic AM field monitoring point measurements, equipment performance measurements, or other tests as specified in the rules or terms of the station license. (Added 82-304, 8/16/82)
- * (3) Review of the station records at least once each week to determine if required entries are being made correctly. Additionally, verification must be made that the station has been operated as required by the rules or the station authorization. Upon completion of the review, the chief operator or his designee must date and sign the log, initiate any corrective action which may be necessary, and advise the station licensee of any condition which is repetitive.
- (4) ~~Entries in the maintenance log. (See § 73.1830).~~ Any entries which may be required in the station records. (See § 73.1820.)

73.1910 FAIRNESS DOCTRINE.

The Fairness Doctrine is contained in section 315(a) of the Communications Act of 1934, as amended, which provides that broadcasters have certain obligations to afford reasonable opportunity for the discussion of conflicting views on issues of public importance. See FCC public notice "Fairness Doctrine and the Public Interest Standards," 39 FR 26372. Copies may be obtained from the FCC upon request. (Added 78-681, 10/16/78)

73.1920 PERSONAL ATTACKS.

(a) When, during the presentation of views on a controversial issue of public importance, an attack is made upon the honesty, character, integrity or like personal qualities of an identified person or group, the licensee shall, within a reasonable time and in no event later than one week after the attack, transmit to the persons or group attacked: (Added 78-681, 10/16/78)

- (1) Notification of the date, time and identification of the broadcast; (Added 78-681, 10/16/78)
- (2) A script or tape (or an accurate summary if a script or tape is not available) of the attack; and (Added 78-681, 10/16/78)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (3) An offer of a reasonable opportunity to respond over the licensee's facilities. (Added 78-681, 10/16/78)

(b) The provisions of paragraph (a) of this section shall not be applicable apply to broadcast material which falls within one or more of the following categories:

- (1) Personal ~~To~~ attacks on foreign groups or foreign public figures;
- (2) Personal attacks occurring during uses by legally qualified candidates; ~~To personnel attacks which are made by legally qualified candidates, their authorized spokesman, or those associated with them in the campaign or other such candidates, their authorized spokesman or persons associated with the candidates in the campaign; and~~
- (3) Personal attacks made during broadcasts not included in paragraph (b)(2) of this section and made by legally qualified candidates, their authorized spokespersons, or those associated with them in the campaign, on other such candidates, their authorized spokespersons or persons associated with the candidates in the campaign; and
- (3) (4) ~~To~~ Bona fide newscasts, bona fide news interviews, and on-the-spot coverage of a bona fide news events, including commentary or analysis contained in the foregoing programs.

(c) The provisions of paragraph (a) of this section shall be applicable to editorials of the licensee, except in the case of noncommercial educational stations since they are precluded from editorializing (section 399(a), Communications Act). (Added 78-681, 10/16/78)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.1930 POLITICAL EDITORIALS.

(a) Where a licensee, in an editorial, ((Added 78-681, 10/16/78)

(1) Endorses or, (Revised 82-25, 3/5/82)

(2) Opposes a legally qualified candidate or candidates, the licensee shall, within 24 hours after the editorial, transmit to, respectively, (Revised 82-25, 3/5/82)

(i) The other qualified candidate or candidates for the same office or, (Revised 82-25, 3/5/82)

(ii) The candidate opposed in the editorial, (Revised 82-25, 3/5/82)

(A) Notification of the date and the time of the editorial, (Revised 82-25, 3/5/82)

(B) A script or tape of the editorial and (Revised 82-25, 3/5/82)

(C) An offer of reasonable opportunity for the candidate or a spokesman of the candidate to respond over the licensee's facilities. Where such editorials are broadcast on the day of the election or within 72 hours prior to the day of the election, the licensee shall comply with the provisions of this paragraph sufficiently far in advance of the broadcast to enable the candidate or candidates to have a reasonable opportunity to prepare a response and to present it in a timely fashion. (Revised 82-25, 3/5/82)

(b) Inasmuch as noncommercial educational stations may not engage in editorializing nor may support nor oppose any candidate for political office (section 399(a), Communications Act), the provisions of paragraph (a) of this section, do not apply to such stations.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.1940 LEGALLY QUALIFIED CANDIDATES FOR PUBLIC OFFICE. (Added 91-403, 1/4/92)

(a) A legally qualified candidate for public office is any person who:

- (1) Has publicly announced his or her intention to run for nomination or office;
- (2) Is qualified under the applicable local, State or Federal law to hold the office for which he or she is a candidate; and
- (3) Has met the qualifications set forth in either paragraphs (b), (c), ~~(d)~~, or (e) of this section.

(b) A person seeking election to any public office including that of President or Vice President of the United States, or nomination for any public office except that of President or Vice President, by means of a primary, general or special election, shall be considered a legally qualified candidate if, in addition to meeting the criteria set forth in paragraph (a) of this section, that person:

- (1) Has qualified for a place on the ballot; ~~;~~ or
- (2) Has publicly committed himself or herself to seeking election by the write-in method and is eligible under applicable law to be voted for by sticker, by writing in his or her name on the ballot or by other method, and makes a substantial showing that he or she is a bona fide candidate for nomination or office.

(c) A person seeking election to the office of President or Vice President of the United States shall, for the purposes of the Communications Act and the rules in 47 CFR chapter I, be considered legally qualified candidates only in those States or territories (or the District of Columbia) in which they have met the requirements set forth in paragraphs (a) and (b) of this section: Except, that any such person who has met the requirements set forth in paragraphs (a) and (b) of this section in at least 10 States (or 9 and the District of Columbia) shall be considered a legally qualified candidate for election in all States, territories, and the District of Columbia for the purposes of this Act.

(d) A person seeking nomination to any public office, except that of President or Vice President of the United States, by means of a convention, caucus or similar procedure, shall be considered a legally qualified candidate if, in addition to meeting the requirements set forth in paragraph (a) of this section, that person makes a substantial showing that he or she is a bona fide candidate for such nomination: Except, that no person shall be considered a legally qualified candidate for nomination by the means set forth in this paragraph prior to 90 days before the beginning of the convention, caucus or similar procedure in which he or she seeks nomination.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(e) A person seeking nomination for the office of President or Vice President of the United States shall, for the purposes of the Communications Act and the rules thereunder, be considered a legally qualified candidate only in those States or territories (or the District of Columbia) in which, in addition to meeting the requirements set forth in paragraph (a) of this section:

- (1) He or she, or proposed delegates on his or her behalf, have qualified for the primary or Presidential preference ballot in that State, territory or the District of Columbia; or
- (2) He or she has made a substantial showing of a bona fide candidacy for such nomination in that State, territory or the District of Columbia; except, that any such person meeting the requirements set forth in paragraphs (a)(1) and (2) of this section in at least 10 States (or 9 and the District of Columbia) shall be considered a legally qualified candidate for nomination in all States, territories and the District of Columbia for purposes of this act.

(e) (f) The term "substantial showing" of a bona fide candidacy as used in paragraphs (b), ~~(e)~~ and (d), and (e) of this section means evidence that the person claiming to be a candidate has engaged to a substantial degree in activities commonly associated with political campaigning. Such activities normally would include making campaign speeches, distributing campaign literature, issuing press releases, maintaining a campaign committee, and establishing campaign headquarters (even though the headquarters in some instances might be the residence of the candidate or his or her campaign manager). Not all of the listed activities are necessarily required in each case to demonstrate a substantial showing, and there may be activities not listed herein which would contribute to such a showing.

73.1941 EQUAL OPPORTUNITIES. (Added 91-403, 1/4/92)

(a) GENERAL REQUIREMENTS. Except as otherwise indicated in § 73.1944, no station licensee is required to permit the use of its facilities by any legally qualified candidate for public office, but if any licensee shall permit any such candidate to use its facilities, it shall afford equal opportunities to all other candidates for that office to use such facilities. Such licensee shall have no power of censorship over the material broadcast by any such candidate. Appearance by a legally qualified candidate on any: (Added 91-403, 1/4/92)

- (1) Bona fide newscast; (Added 91-403, 1/4/92)
- (2) Bona fide news interview; (Added 91-403, 1/4/92)
- (3) Bona fide news documentary (if the appearance of the candidate is incidental to the presentation of the subject or subjects covered by the news documentary); or (Added 91-403, 1/4/92)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (4) On-the-spot coverage of bona fide news events (including, but not limited to political conventions and activities incidental thereto) shall not be deemed to be use of broadcasting station. (Section 315(a) of the Communications Act.)

(b) **USES.** As used in this section and § 73.1942, the term "use" means a candidate appearance (including by voice or picture) ~~or political advertisement that is not exempt under § 73.1941(a)(1)-(4) and that is controlled, approved or sponsored by the candidate or the candidate's authorized Committee after the candidate becomes legally qualified of this section.~~

(c) **TIMING OF REQUEST.** A request for equal opportunities must be submitted to the licensee within 1 week of the day on which the first prior use giving rise to the right of equal opportunities occurred: Provided, however, That where the person was not a candidate at the time of such first prior use, he or she shall submit his or her request within 1 week of the first subsequent use after he or she has become a legally qualified candidate for the office in question. (Added 91-403, 1/4/92)

(d) **BURDEN OF PROOF.** A candidate requesting equal opportunities of the licensee or complaining of noncompliance to the Commission shall have the burden of proving that he or she and his or her opponent are legally qualified candidates for the same public office. (Added 91-403, 1/4/92)

(e) **DISCRIMINATION BETWEEN CANDIDATES.** In making time available to candidates for public office, no licensee shall make any discrimination between candidates in practices, regulations, facilities, or services for or in connection with the service rendered pursuant to this part, or make or give any preference to any candidate for public office or subject any such candidate to any prejudice or disadvantage; nor shall any licensee make any contract or other agreement which shall have the effect of permitting any legally qualified candidate for any public office to broadcast to the exclusion of other legally qualified candidates for the same public office. (Added 91-403, 1/4/92)

73.1942 CANDIDATE RATES.

(a) Charges for use of stations. The charges, if any, made for the use of any broadcasting station by any person who is a legally qualified candidate for any public office in connection with his or her campaign for nomination for election, or election, to such office shall not exceed: (Added 91-403, 1/4/92)

- (1) During the 45 days preceding the date of a primary or primary runoff election and during the 60 days preceding the date of a general or special election in which such person is a candidate, the lowest unit charge of the station for the same class and amount of time for the same period. (Added 91-403, 1/4/92)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (i) A candidate shall be charged no more per unit than the station charges its most favored commercial advertisers for the same classes and amounts of time for the same periods. Any station practices offered to commercial advertisers that enhance the value of advertising spots must be disclosed and made available to candidates on equal terms. Such practices include but are not limited to any discount privileges that affect the value of advertising, such as bonus spots, time-sensitive make goods, preemption priorities, or any other factors that enhance the value of the announcement.
- (ii) The Commission recognizes non-preemptible, preemptible with notice, immediately preemptible and run-of-schedule as distinct classes of time. (Added 91-403, 1/4/92)
- (iii) Stations may establish and define their own reasonable classes of immediately preemptible time so long as the differences between such classes are based on one or more demonstrable benefits associated with each class and are not based solely upon price or identity of the advertiser. Such demonstrable benefits include, but are not limited to, varying levels of preemption protection, scheduling flexibility, or associated privileges, such as guaranteed time-sensitive make goods. Stations may not use class distinctions to defeat the purpose of the lowest unit charge requirement. All classes must be fully disclosed and made available to candidates. (Added 91-403, 1/4/92)
- (iv) Stations may establish reasonable classes of preemptible with notice time so long as they clearly define all such classes, fully disclose them and make available to candidates. (Added 91-403, 1/4/92)
- (v) Stations may treat non-preemptible and fixed position as distinct classes of time provided that stations articulate clearly the differences between such classes, fully disclose them, and make them available to candidates. (Added 91-403, 1/4/92)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (vi) Stations shall not establish a separate, premium-period class of time sold only to candidates. Stations may sell higher-priced non-preemptible or fixed time to candidates if such a class of time is made available on a *bona fide* basis to both candidates and commercial advertisers, and provided such class is not functionally equivalent to any lower-priced class of time sold to commercial advertisers. (Added 91-403, 1/4/92)
- (vii) Reserved.
- (viii) Lowest unit charge may be calculated on a weekly basis with respect to time that is sold on a weekly basis, such as rotations through particular programs or dayparts. Stations electing to calculate the lowest unit charge by such a method must include in that calculation all rates for all announcements scheduled in the rotation, including announcements aired under long-term advertising contracts. Stations may implement rate increases during election periods only to the extent that such increases constitute "ordinary business practices," such as seasonal program changes or changes in audience ratings. (Added 91-403, 1/4/92)
- (ix) Stations shall review their advertising records periodically throughout the election period to determine whether compliance with this section requires that candidates receive rebates or credits. Where necessary, stations shall issue such rebates or credits promptly. (Added 91-403, 1/4/92)
- (x) Unit rates charged as part of any package, whether individually negotiated or generally available to all advertisers, must be included in the lowest unit charge calculation for the same class and length of time in the same time period. A candidate cannot be required to purchase advertising in every program or daypart in a package as a condition for obtaining package unit rates. (Added 91-403, 1/4/92)
- (xi) Stations are not required to include non-cash promotional merchandising incentives in lowest unit charge calculations; provided, however, that all such incentives must be offered to candidates as part of any purchases permitted by the licensee. Bonus spots, however, must be included in the calculation of the lowest unit charge calculation.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (xii) Make goods, defined as the rescheduling of preempted advertising, shall be provided to candidates prior to election day if a station has provided a time-sensitive make good during the year preceding the pre-election periods, prospectively set forth in paragraph (a)(1) of this section, to any commercial advertiser who purchased time in the same class.
- (xiii) Stations must disclose and make available to candidates any make good policies provided to commercial advertisers. If a station places a make good for any commercial advertiser or other candidate in a more valuable program or daypart, the value of such make good must be included in the calculation of the lowest unit charge for that program or daypart. (Added 91-403, 1/4/92)
- (2) At any time other than the respective periods set forth in paragraph (a)(1) of this section, stations may charge legally qualified candidates for public office no more than the charges made for comparable use of the station by commercial advertisers. The rates, if any, charged all such candidates for the same office shall be uniform and shall not be rebated by any means, direct or indirect. A candidate shall be charged no more than the rate the station would charge for comparable commercial advertising. All discount privileges otherwise offered by a station to commercial advertisers must be disclosed and made available upon equal terms to all candidates for public office.

(b) If a station permits a candidate to use its facilities, the station shall make all discount privileges offered to commercial advertisers, including the lowest unit charges for each class and length of time in the same time period, and all corresponding discount privileges, available on equal terms to all candidates. This duty includes an affirmative duty to disclose to candidates information about rates and all value-enhancing discount privileges offered commercial advertisers. Stations may use reasonable discretion in making the disclosure; provided, however, that the disclosure includes, at a minimum, the following information:

- (1) A description and definition of each class of time available to commercial advertisers sufficiently complete to allow candidates to identify and understand what specific attributes differentiate each class;

[Next Page is No. 646.1]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (2) A description of the lowest unit charge and related privileges (such as priorities against preemption and make goods prior to specific deadlines) for each class of time offered to commercial advertisers; (Added 91-403, 1/4/92)
- (3) A description of the station's method of selling preemptible time based upon advertiser demand, commonly known as the "current selling level," with the stipulation that candidates will be able to purchase at these demand-generated rates in the same manner as commercial advertisers; (Added 91-403, 1/4/92)
- (4) An approximation of the likelihood of preemption for each kind of preemptible time; and (Added 91-403, 1/4/92)
- (5) An explanation of the station's sales practices, if any, that are based on audience delivery, with the stipulation that candidates will be able to purchase this kind of time, if available to commercial advertisers. (Added 91-403, 1/4/92)

(c) Once disclosure is made, stations shall negotiate in good faith to actually sell time to candidates in accordance with the disclosure. (Added 91-403, 1/4/92)

(d) This rule (§ 73.1942) shall not apply to any station licensed for non-commercial operation. (Added 91-403, 1/4/92)

73.1943 POLITICAL FILE. (Added 91-403, 1/4/92)

(a) Every licensee shall keep and permit public inspection of a complete and orderly record (political file) of all requests for broadcast time made by or on behalf of a candidate for public office, together with an appropriate notation showing the disposition made by the licensee of such requests, and the charges made, if any, if the request is granted. The "disposition" includes the schedule of time purchased, when spots actually aired, the rates charged, and the classes of time purchased. (Added 91-403, 1/4/92)

(b) When free time is provided for use by or on behalf of candidates, a record of the free time provided shall be placed in the political file. (Added 91-403, 1/4/92)

(c) All records required by this paragraph shall be placed in the political file as soon as possible and shall be retained for a period of two years. As soon as possible means immediately absent unusual circumstances. (Added 91-403, 1/4/92)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.1944 REASONABLE ACCESS. (Added 91-403, 1/4/92)

(a) Section 312(a)(7) of the Communications Act provides that the Commission may revoke any station license or construction permit for willful or repeated failure to allow reasonable access to, or to permit purchase of, reasonable amounts of time for the use of a broadcasting station by a legally qualified candidate for Federal elective office on behalf of his candidacy. (Added 91-403, 1/4/92)

(b) **WEEKEND ACCESS.** For purposes of providing reasonable access, a licensee shall make its facilities available for use by federal candidates on the weekend before the election if the licensee has provided similar access to commercial advertisers during the year preceding the relevant election period. Licensees shall not discriminate between candidates with regard to weekend access. (Added 91-403, 1/4/92)

[Next Page is No. 647]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

EDITOR'S NOTE: Section 73.2080 has been so completely revised by Amendment No. 87-136 that the previous wording is not shown.

73.2080 EQUAL EMPLOYMENT OPPORTUNITIES.

(a) GENERAL EEO POLICY.

Equal opportunity in employment shall be afforded by all licensees or permittees of commercially or noncommercially operated AM, FM, TV, or international broadcast stations (as defined in this part) to all qualified persons, and no person shall be discriminated against in employment by such stations because of race, color, religion, national origin, or sex.

(b) EEO PROGRAM.

Each broadcast station shall establish, maintain, and carry out a positive continuing program of specific practices designed to ensure equal opportunity in every aspect of station employment policy and practice. Under the terms of its program, a station shall:

- (1) Define the responsibility of each level of management to ensure a positive application and vigorous enforcement of its policy of equal opportunity, and establish a procedure to review and control managerial and supervisory performance;
- (2) Inform its employees and recognized employee organizations of the positive equal employment opportunity policy and program and enlist their cooperation;
- (3) Communicate its equal employment opportunity policy and program and its employment needs to sources of qualified applicants without regard to race, color, religion, national origin, or sex, and solicit their recruitment assistance on a continuing basis;
- (4) Conduct a continuing program to exclude all unlawful forms of prejudice or discrimination based upon race, color, religion, national origin, or sex from its personnel policies and practices and working conditions; and
- (5) Conduct a continuing review of job structure and employment practices and adopt positive recruitment, job design, and other measures needed to ensure genuine equality of opportunity to participate fully in all organizational units, occupations, and levels of responsibility.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(c) EEO PROGRAM REQUIREMENTS.

A broadcast station's equal employment opportunity program should reasonably address itself to the specific areas set forth below, to the extent possible, and to the extent that they are appropriate in terms of the station's size, location, etc.:

- (1) Disseminate its equal opportunity program to job applicants and employees. For example, this requirement may be met by:
 - (i) Posting notices in the station's office and other places of employment, informing employees, and applicants for employment, of their equal employment opportunity rights. Where it is appropriate, such equal employment opportunity notices should be posted in languages other than English;
 - (ii) Placing a notice in bold type on the employment application informing prospective employees that discrimination because of race, color, religion, national origin, or sex is prohibited;
 - (iii) Seeking the cooperation of labor unions, if represented at the station, in the implementation of its EEO program and the inclusion of non-discrimination provisions in union contracts;
 - (iv) Utilizing media for recruitment purposes in a manner that will contain no indication, either explicit or implicit, of a preference for one sex over another and that can be reasonably expected to reach minorities and women.
- (2) Use minority organizations, organizations for women, media, educational institutions, and other potential sources of minority and female applicants, to supply referrals whenever job vacancies are available in its operation. For example, this requirement may be met by:
 - (i) Placing employment advertisements in media that have significant circulation among minorities residing and/or working in the recruiting area;
 - (ii) Recruiting through schools and colleges, including those located in the station's local area, with significant minority-group enrollments;

[Next Page is No. 648.1]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (iii) Contacting, both orally and in writing, minority and human relations organizations, leaders, and spokesmen and spokeswomen to encourage referral of qualified minority or female applicants;
 - (iv) Encouraging current employees to refer minority or female applicants;
 - (v) Making known to recruitment sources in the employer's immediate area that qualified minority members and females are being sought for consideration whenever you hire and that all candidates will be considered on a nondiscriminatory basis.
- (3) Evaluate its employment profile and job turnover against the availability of minorities and women in its recruitment area. For example, this requirement may be met by:
- (i) Comparing the composition of the relevant labor area with composition of the station's workforce;
 - (ii) Where there is underrepresentation of either minorities and/or women, examining the company's personnel policies and practices to assure that they do not inadvertently screen out any group and take appropriate action where necessary. Data on representation of minorities and women in the available labor force are generally available on a metropolitan statistical area (MSA) or county basis.
- (4) Undertake to offer promotions of qualified minorities and women in a nondiscriminatory fashion to positions of greater responsibility. For example, this requirement may be met by:
- (i) Instructing those who make decisions on placement and promotion that qualified minority employees and females are to be considered without discrimination, and that job areas in which there is little or no minority or female representation should be reviewed;
 - (ii) Giving qualified minority and female employees equal opportunity for positions which lead to higher positions. Inquiring as to the interest and skills for all lower paid employees with respect to any of the higher paid positions.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (5) Analyze its efforts to recruit, hire, and promote minorities and women and address any difficulties encountered in implementing its equal employment opportunity program. For example, this requirement may be met by:*
- (i) Avoiding use of selection techniques or tests that have the effect of discriminating against qualified minority groups or females;*
 - (ii) Reviewing seniority practices to ensure that such practices are nondiscriminatory;*
 - (iii) Examining rates of pay and fringe benefits for employees having the same duties, and eliminating any inequities based upon race or sex discrimination.*

(d) **MID-TERM REVIEW FOR TELEVISION BROADCAST STATIONS.**

The Commission will conduct a mid-term review of the employment practices of each broadcast television station at two and one half years following the station's most recent license expiration date as specified in § 73.1020. The Commission will use the employment profile information provided on the first two Form 395-B reports submitted following such license expiration date to determine whether television station's employment profiles as compared to the applicable labor force data, are in compliance with the Commission's processing criteria. Television broadcast station which employment profiles fall below the processing criteria will receive a letter noting any necessary improvements identified as a result of the review.

[Next Page is No. 649]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.3500 APPLICATION AND REPORT FORMS.

Following are the FCC broadcast application and report forms, listed by number. (Added 79-371, 7/9/79)

Form number	Title
301	Application for Authority to Construct or Make Changes in a Commercial Broadcast Station. (Added 79-371, 7/9/79)
301-A	Application for Authority to Operate a Broadcast Station by Remote Control or to Make Changes in a Remote Control Authorization. (Added 79-371, 7/9/79)
302-AM	Application for AM Broadcast Station License
302-TV	Application for Television Broadcast Station License
302-FM	Application for FM Broadcast Station License. (Added 92-1314, 10/23/92)
303-S	Application for Renewal of License for AM, FM, TV, Translator, or LPTV Station. (Revised 94-259, 12/20/94)
307	Application for Extension of Broadcast Construction Permit or to Replace Expired Construction Permit. (Edit. Amdt. 9/22/88)
308	Application for Permit to Deliver Programs to Foreign Broadcast Stations. (Added 79-371, 7/9/79)
309	Application for Authority to Construct or Make Changes in an International Experimental Broadcast Station. (Edit. Amdt. 8/15/84)
310	Application for an International or Experimental Broadcast Station License. (Edit. Amdt. 8/15/84)
311	Application for Renewal of an International or Experimental Broadcast Station License. (Edit. Amdt. 8/15/84)
313	Application for Authorization in the Auxiliary Broadcast Services. (Added 79-371, 7/9/79)
313-R	Application for Renewal of Auxiliary Broadcast License (Short Form). (Added 79-371, 7/9/79)
314	Application for Consent to Assignment of Broadcast Station Construction Permit or License. (Edit Amdt. 7/18/84)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

Form number	Title
315	Application for Consent to Transfer of Control of Corporation Holding Broadcast Station Construction Permit or License. (Added 79-371, 7/9/79)
316	Application for Consent to Assignment of Broadcast Station Construction Permit or License or Transfer of Control of Corporation Holding Broadcast Station Construction Permit or License. (Added 79-371, 7/9/79)
323	Ownership Report. (Added 79-371, 7/9/79)
323-E	Ownership Report for Noncommercial Educational Broadcast Station. (Added 79-371, 7/9/79)
330	Application for Authorization to Construct New or Make Changes in Instructional TV Fixed and/or Response Stations, or to Assign or Transfer Such Stations. (Edit. Amdt. 1/6/88)
330-L	Application for Instructional Television Fixed Station License. (Added 79-371, 7/9/79)
330-R	Application for Renewal of Instructional TV Fixed Station and/or Response Station(s) and Low Power Relay Station(s) License. (Added 79-371, 7/9/79)
340	Application for Authority to Construct or Make Changes in a Noncommercial Educational Broadcast Station. (Added 79-371, 7/9/79)
345	Application for Consent to Assignment of a TV or FM Translator Station Construction Permit or License. (Added 79-371, 7/9/79)
346	Application for Authority to Construct or Make Changes in a Low Power TV, TV Translator or TV Booster Station.
347	Application for a Low Power TV, TV Translator or TV Booster Station License.
348	Application for Renewal of a Low Power TV, TV Translator, or FM Translator Station License. (Revised 82-107, 6/17/82)*

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

Form number	Title
349	Application for Authority to Construct or Make Changes in an FM Translator or FM Booster Station. (Added Editorial Amdt., 9/22/88)
350	Application for an FM Translator or FM Booster Station License. (Added Editorial Amdt., 9/22/88)
395-B	Annual Employment Report and Instructions. (Added 87-136, 8/17/87)
396	Broadcast Equal Employment Opportunity Program Report. (Added 87-136, 8/17/87)
396-A	Broadcast Equal Employment Opportunity Model Program Report. (Added 87-136, 8/17/87)
398	Children's Television Programming Report.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.3511 APPLICATIONS REQUIRED.

(a) *"Formal application" means any request for authorization where an FCC form for such request is prescribed. The prescription of an FCC form includes the requirement that the proper edition of the form is used. Formal applications or obsolete forms are subject to the provisions of § 73.3564 concerning acceptance of applications and § 73.3566 concerning defective applications. (Added 79-371, 7/9/79)

(b) "Informal application" means all other written requests for authorization. All such applications should contain a caption clearly indicating the nature of the request submitted therein. (Added 79-371, 7/9/79)

(c) Formal and information applications must comply with the requirements as to signing specified herein and in § 73.3513. (Added 79-371, 7/9/79)

73.3512 WHERE TO FILE; NUMBER OF COPIES.

All applications for authorizations required by § 73.3511 shall be filed at the FCC in Washington, DC (Applications requiring fees as set forth at Part 1, Subpart G of this chapter must be filed in accordance with § 0.401(b) of the rules.) The number of copies required for each application is set forth in the FCC Form which is to be used in filing such application. (Added 87-99, 4/1/87)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.3513 SIGNING OF APPLICATIONS.

(a) Applications, amendments thereto, and related statements of fact required by the FCC must be signed by the following persons: (Added 79-371, 7/9/79)

(1) INDIVIDUAL APPLICANT.

The applicant, if the applicant is an individual. (Added 79-371, 7/9/79)

(2) PARTNERSHIP.

One of the partners, if the applicant is a partnership. (Added 79-371, 7/9/79)

(3) CORPORATION.

An officer, if the applicant is a corporation. (Added 79-371, 7/9/79)

(4) UNINCORPORATED ASSOCIATION.

A member who is an officer, if the applicant is an unincorporated association. (Added 79-371, 7/9/79)

(5) GOVERNMENTAL ENTITY.

Such duly elected or appointed officials as may be competent to do so under the law of the applicable jurisdiction, if the applicant is an eligible governmental entity, such as a State or Territory of the United States and political subdivisions thereof, the District of Columbia, and a unit of local government, including an unincorporated municipality. (Added 79-371, 7/9/79)

(b) Applications, amendments thereto, and related statements of fact required by the FCC may be signed by the applicant's attorney in case of the applicant's physical disability or of his absence from the United States. The attorney shall in that event separately set forth the reason why the application is not signed by the applicant. In addition, if any matter is stated on the basis of the attorney's belief only (rather than his knowledge), he shall separately set forth his reasons for believing that such statements are true. (Added 79-371, 7/9/79)

(c) Only the original of applications, amendments, or related statements of fact, need be signed; copies may be conformed. (Added 79-371, 7/9/79)

73.3513(d)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(d) Applications, amendments, and related statements of fact need not be submitted under oath. Willful false statements made therein, however, will be considered a violation of § 73.1015, are also punishable by fine and imprisonment, U.S. Code, Title 18, section 1001, and by appropriate administrative sanctions including revocation of station license pursuant to section 312(a)(i) of the Communications Act. (Revised 85-648, 2/20/86)

73.3514 CONTENT OF APPLICATIONS.

(a) Each application shall include all information called for by the particular form on which the application is required to be filed, unless the information called for is inapplicable, in which case this fact shall be indicated. (Added 79-371, 7/9/79)

(b) The FCC may require an applicant to submit such documents and written statements of fact as in its judgment may be necessary. The FCC may also, upon its own motion or upon motion of any party to a proceeding, order the applicant to amend the application so as to make it more definite and certain. (Added 79-371, 7/9/79)

73.3516 SPECIFICATION OF FACILITIES.

(a) An application for facilities in the AM, FM, or TV broadcast services or low power TV service shall be limited to one frequency, or channel, and no application will be accepted for filing if it requests an alternate frequency or channel. Applications specifying split frequency AM operations using one frequency during daytime hours complemented by a different frequency during nighttime hours will not be accepted for filing. (Revised 91-303, 4/19/92)

(b) An application for facilities in the experimental and auxiliary broadcast services may request the assignment of more than one frequency if consistent with applicable rules in Part 74. Such applications must specify the frequency or frequencies requested and may not request alternate frequencies. (Added 79-371, 7/9/79)

(c) An application for a construction permit for a new broadcast station, the facilities for which are specified in an outstanding construction permit or license, will not be accepted for filing. (Revised 84-492, 12/26/84)

(d) An application for facilities in the International broadcast service may be filed without a request for specific frequency, as the FCC will assign frequencies from time to time in accordance with §§ 73.702 and 73.711. (Added 79-371, 7/9/79)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(e) An application for a construction permit for a new broadcast station or for modification of construction permit or license of a previously authorized broadcast station will not be accepted for filing if it is mutually exclusive with an application for renewal of license of an existing broadcast station unless the application for renewal of license is filed on or before May 1, 1995 and unless the mutually exclusive construction permit application it is tendered for filing by the end of the first day of the last full calendar month of the expiring license term. A petition to deny an application for renewal of license of an existing broadcast station will be considered as timely filed if it is tendered for filing by the end of the first day of the last full calendar month of the expiring license term.

- (1) If the license renewal application is not timely filed as prescribed in § 73.3539, the deadline for filing petitions to deny thereto is the 90th day after the FCC gives public notice that it has accepted the late-filed renewal application for filing. In the case of a renewal application filed on or before May 1, 1995, if the license renewal application is not timely filed as prescribed in § 73.3539, the deadline for filing applications mutually exclusive therewith is the 90th day after the FCC gives public notice that it has accepted the late-filed renewal application for filing.
- (2) If any deadline falls on a nonbusiness day, the cutoff shall be the close of business of the first full business day thereafter. (Added 79-371, 7/9/79)
- (3) The dates when the licenses of all broadcast and broadcast auxiliary services regularly expire are listed in §§ 73.733, 73.1020 and 74.15. (Added 79-371, 7/9/79)

73.3517 CONTINGENT APPLICATIONS.

Contingent applications for new stations and for changes in facilities of existing stations are not acceptable for filing. Contingent applications will be accepted for filing under the circumstances described below:
(Revised 80-315, 6/16/80)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (a) Upon the filing of an application for the assignment of a license or construction permit, or for a transfer of control of a licensee or permittee, the proposed assignee or transferee may, upon payment of the processing fee prescribed in Subpart G, Part 1 of this chapter, file applications in its own name for authorization to make changes in the facilities to be assigned or transferred contingent upon approval and consummation of the assignment or transfer. Any application filed pursuant to this paragraph must be accompanied by a written statement from the existing licensee which specifically grants permission to the assignee or permittee to file such application. The processing fee will not be refundable should the assignment or transfer not be approved. The existing licensee or permittee may also file a contingent application in its own name, but fees in such cases are also not refundable. (Revised 86-562, 4/1/87)
- (b) Whenever the FCC determines that processing of any application filed pursuant to paragraph (a) of this section, would be contrary to sound administrative practice or would impose an unwarranted burden on its staff and resources, the FCC may defer processing of such application until the assignment or transfer has been granted and consummated. (Added 79-371, 7/9/79)
- (c) Upon payment of the filing fees prescribed in § 1.1111 of this chapter, the Commission will accept two or more applications filed by existing AM licensees for modification of facilities that are contingent upon granting of both, if granting such contingent applications will reduce interference to one or more AM stations or will otherwise increase the area of interference-free service. The applications must state that they are filed pursuant to an interference reduction arrangement and must cross-reference all other contingent applications. (Added 91-303, 4/19/92)
- (d) Modified proposals curing conflicts between mutually exclusive clusters of applications filed in accordance with paragraphs (c) of this section will be accepted for 60 days following issuance of a public notice identifying such conflicts. (Added 91-303, 4/19/92)

NOTE 1: No application to move to a frequency in the 1605-1705 kHz band may be part of any package of contingent applications associated with a voluntary agreement. (Added 91-303, 4/19/92)

NOTE 2: In cases where no modified proposal is filed pursuant to paragraph (d) of this section, the Commission will grant the application resulting in the greatest net interference reduction. (Added 91-303, 4/19/92)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.3518 INCONSISTENT OR CONFLICTING APPLICATIONS.

While an application is pending and undecided, no subsequent inconsistent or conflicting application may be filed by or on behalf of or for the benefit of the same applicant, successor or assignee. (Added 79-371, 7/9/79)

73.3519 REPETITIOUS APPLICATIONS.

(a) Where the FCC has denied an application for a new station or for any modification of services or facilities, or dismissed such application with prejudice, no like application involving service of the same kind for substantially the same area by substantially the same applicant, or his successor or assignee, or on behalf or for the benefit of the original parties in interest, may be filed within 12 months from the effective date of the FCC's action. However, applicants whose applications have been denied in a comparative hearing may apply immediately for another available facility. (Added 79-371, 7/9/79)

(b) Where an appeal has been taken from the action of the FCC in denying a particular application, another application for the same class of broadcast station and for the same area, in whole or in part, filed by the same applicant, or his successor or assignee, or on behalf of, or for the benefit of the original parties in interest, will not be considered until final disposition of such appeal. (Added 79-371, 7/9/79)

73.3520 MULTIPLE APPLICATIONS.

Where there is one application for new or additional facilities pending, no other application for new or additional facilities for a station of the same class to serve the same community may be filed by the same applicant, or successor or assignee, or on behalf of, or for the benefit of the original parties in interest. Multiple applications may not be filed simultaneously. (Added 79-371, 7/9/79)

73.3521 MUTUALLY EXCLUSIVE APPLICATIONS FOR LOW POWER TELEVISION, AND TELEVISION TRANSLATORS AND TELEVISION BOOSTER STATIONS.

When there is a pending application for a new low power television, ~~or~~ television translator, or television booster station, or for major changes in an existing station, no other application which would be directly mutually exclusive with the pending application may be filed by the same applicant or by any applicant in which any individual in common with the pending application has any interest, direct or indirect, except that interests of less than 1% will not be considered.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.3522 AMENDMENT OF APPLICATIONS.**(a) PREDESIGNATION AMENDMENT.**

- (1) Subject to the provisions of §§ 73.3525, 73.3571, 73.3572, 73.3573, and 73.3580, and except as provided in paragraph (a)(2) of this section, any application, other than an application for a low power TV, TV translator, TV booster or a nonreserved band FM station may be amended as a matter of right prior to the adoption date of an order designating such applications for hearings, merely by filing the appropriate number of copies of the amendments in question duly executed in accordance with § 73.3513. If a petition to deny (or to designate for hearing) has been filed, the amendment shall be served on the petitioner.
- (2) Subject to the provisions of §§ 73.3525, 73.3571, 73.3572, 73.3573 and 73.3580, and except for applications for low power TV, TV translator, TV booster or non-reserved band FM stations, mutually exclusive broadcast applications may be amended as a matter of right by the date specified (not less than 30 days after issuance) in the FCC's Public Notice announcing the acceptance for filing of the last-filed mutually exclusive application. Subsequent amendments prior to designation of the proceeding for hearing will be considered only upon a showing of good cause for late filing or pursuant to § 1.65 or § 73.3514. Unauthorized or untimely amendments are subject to return by the FCC's staff without consideration.
- (3) Subject to the provisions of §§ 73.3525, 73.3572, and 73.3580, ~~and except as provided in paragraph (a)(4) of this section,~~ any application for a low power TV, TV translator or TV booster station may be amended as a matter of right during the application window filing period pursuant to § 73.3564(d). If it is determined that a low power TV, TV translator or TV booster application is substantially complete but contains some defect(s) or omission(s), a deficiency letter will be issued affording the applicant 30 days to correct the defect at any time.
- (4) No applicant for a low power TV, TV translator or TV booster station which is mutually exclusive can improve its status with respect to § 1.1622 by amendment of its application subsequent to the release of the initial Public Notice announcing the public lottery that will resolve the applicant's mutual exclusivity pursuant to § 1.1601 *et seq.*, notwithstanding the requirements of § 1.65.

[Next Page is No. 658.1]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (5) Paragraphs (b) and (c) of this section are not applicable to applications for low power TV, TV translator, or TV booster stations.
- * (6) Subject to the provisions of §§ 73.3525, 73.3573, and 73.3580, applications for non-reserved band FM stations (other than Class D stations) may be amended as a matter of right during the appropriate window filing period pursuant to § 73.3564(d). For a period of 30 days following the FCC's issuance of a Public Notice announcing the tender of the application, minor amendments may be filed as a matter of right. For applications received on or after August 7, 1992, an applicant whose application is found to meet minimum filing requirements but nevertheless is not complete and acceptable shall have the opportunity in the 30-day period specified in the FCC staff's deficiency letter to correct all deficiencies in the tenderability and acceptability of the underlying application, including any deficiency not specifically identified by the staff. [For minimum filing requirements see § 73.3564(a). Examples of tender defects appear at 50 FR 19936 at 19945-46 (May 13, 1985), *reprinted as* Appendix D, Report and Order, MM Docket No. 91-347, ~~FCC 92-328, 7 FCC Red—~~ ~~(adopted July 16, Red 5074, 5083-88 (1992))~~. For examples of acceptance defects, see 49 FR 47331.] Prior to the end of the period specified in the deficiency letter, a submission seeking to correct a tender and/or acceptance defect in an application meeting minimum filing requirements will be treated as an amendment for good cause if it would successfully and directly correct the defect. Other amendments prior to designation for hearing or grant will be considered only upon a showing of good cause for late filing or pursuant to § 1.65 or § 73.3514. Unauthorized or untimely amendments are subject to return by the Commission without consideration. However, an amendment to a non-reserved band application will not be accepted after the close of the appropriate filing window if the effect of such amendment is to alter the proposed facility's coverage area so as to produce a conflict with an applicant who files subsequent to the initial applicant but prior to the amendment application. Similarly, an applicant subject to "first come/first serve" processing will not be permitted to amend its application and retain filing priority if the result of such amendment is to alter the facility's coverage area so as to produce a conflict with an applicant who files subsequent to the initial applicant but prior to the amendment.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(b) POSTDESIGNATION AMENDMENT.

- (1) Except as provided in paragraph (b)(2) of this section, requests to amend an application after it has been designated for hearing will be considered only upon written petition properly served upon the parties of record in accordance with § 1.47 and, where applicable, compliance with the provisions of § 73.3525, and will be considered only upon a showing of good cause for late filing. In the case of requests to amend the engineering proposal (other than to make changes with respect to the type of equipment specified), good cause will be considered to have been shown only if, in addition to the usual good cause consideration, it is demonstrated: (Added 79-371, 7/9/79)
 - (i) That the amendment is necessitated by events which the applicant could not reasonably have foreseen (e.g., notification of a new foreign station or loss of transmitter site by condemnation); and (Added 79-371, 7/9/79)
 - (ii) That the amendment does not require an enlargement of issues or the addition of new parties to the proceeding. (Added 79-371, 7/9/79)
- (2) In comparative broadcast cases (including comparative renewal proceedings), amendments relating to issues first raised in the designation order may be filed as a matter of right within 30 days after that Order or a summary thereof is published in the FEDERAL REGISTER, or by a date certain to be specified in the Order. (Revised 86-241, 5/29/86)

(c) Notwithstanding the provisions of paragraph (b) of this section, and subject to compliance with the provisions of § 73.3525, a petition for leave to amend may be granted, provided it is requested that the application as amended be removed from the hearing docket and returned to the processing line. See § 73.3571. (Added 79-371, 7/9/79)

NOTE 1: When two or more broadcast applications are tendered for filing which are mutually exclusive with each other but not in conflict with any previously filed applications which have been accepted for filing, the FCC, where appropriate, will announce acceptance of the earliest tendered application and place the later filed application or applications on a subsequent public notice of acceptance for filing in order to establish a deadline for the filing of amendments as a matter of right for all applicants in the group. (Added 79-371, 7/9/79)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.3523 DISMISSAL OF APPLICATIONS IN RENEWAL PROCEEDINGS.

(a) Any applicant for a construction permit, that has filed an application that is mutually exclusive with an application for the renewal of a license of an AM, FM or television station (hereinafter "competing applicant"); filed on or before May 1, 1995, and seeks to dismiss or withdraw its application and thereby remove a conflict between applications pending before the Commission, must obtain the approval of the Commission.

(b) If a competing applicant seeks to dismiss or withdraw its application prior to the Initial Decision stage of the hearing on its application, it must submit to the Commission a request for approval of the dismissal or withdrawal of its application, a copy of any written agreement related to the dismissal or withdrawal of its application, and an affidavit setting forth: (Added 89-108, 8/7/89)

- (1) A certification that neither the applicant nor its principals has received or will receive any money or other consideration in exchange for dismissing or withdrawing its application; (Added 89-108, 8/7/89)
- (2) A statement that its application was not filed for the purpose of reaching or carrying out an agreement with any other applicant regarding the dismissal or withdrawal of its application; and (Added 89-108, 8/7/89)
- (3) The terms of any oral agreement relating to the dismissal or withdrawal of its application. (Added 89-108, 8/7/89)

In addition, within 5 days of the applicant's request for approval, each remaining competing applicant and the renewal applicant must submit an affidavit setting forth: (Added 89-108, 8/7/89)

- (4) A certification that neither the applicant nor its principals has paid or will pay any money or other consideration in exchange for the dismissal or withdrawal of the application; and (Added 89-108, 8/7/89)
- (5) The terms of any oral agreement relating to the dismissal or withdrawal of the application. (Added 89-108, 8/7/89)

(c) If a competing applicant seeks to dismiss or withdraw its application after the Initial Decision stage of the hearing on its application, it must submit to the Commission a request for approval of the dismissal or withdrawal of its application, a copy of any written agreement related to the dismissal or withdrawal, and an affidavit setting forth: (Added 89-108, 8/7/89)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (1) A certification that neither the applicant nor its principals has received or will receive any money or other consideration in excess of the legitimate and prudent expenses of the applicant;
- (2) The exact nature and amount of any consideration paid or promised;
- (3) An itemized accounting of the expenses for which it seeks reimbursement;
- (4) A statement that its application was not filed for the purpose of reaching or carrying out an agreement with any other applicant regarding the dismissal or withdrawal of its application; and
- (5) The terms of any oral agreement relating to the dismissal or withdrawal of its application.

In addition, within 5 days of the applicant's request for approval, each remaining party to any written or oral agreement must submit an affidavit setting forth:

- (6) A certification that neither the applicant nor its principals has paid or will pay money or other consideration in excess of the legitimate and prudent expenses of the withdrawing applicant in exchange for the dismissal or withdrawal of the application; and
 - (7) The terms of any oral agreement relating to the dismissal or withdrawal of the application.
- (d) For the purpose of this section:
- (1) Affidavits filed pursuant to this section shall be executed by the applicant, permittee or licensee, if an individual; a partner having personal knowledge of the facts, if a partnership; or an officer having personal knowledge of the facts, if a corporation or association.
 - (2) An application shall be deemed to be pending before the Commission from the time an application is filed with Commission until an order of the Commission granting or denying the application is no longer subject to reconsideration by the Commission or to review by any court.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (3) "Legitimate and prudent expenses" are those expenses reasonably incurred by an applicant in preparing, filing, and prosecuting its application. (Added 8/7/89. 89-108)
- (4) "Other consideration" consists of financial concessions, including but not limited to the transfer of assets or the provision of tangible pecuniary benefit, as well as non-financial concessions that confer any type of benefit on the recipient. (Added 8/7/89, 89-108)

| 73.3524 Redesignated as 73.3588 10/4/90.

[Next Page is No. 659]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.3525 AGREEMENTS FOR REMOVING APPLICATION CONFLICTS.

(a) Except as provided in § 73.3523 regarding dismissal of applications in comparative renewal proceedings, whenever applicants for a construction permit for a broadcast station, ~~prior to the commencement of the trial phase of the commencement of the trial phase of the proceeding,~~ enter into an agreement to procure the removal of a conflict between ~~among~~ applications pending before the FCC by withdrawal or amendment of an application or by its dismissal pursuant to § 73.3568, all parties thereto shall, within 5 days after entering into the agreement, file with the FCC a joint request for approval of such agreement. The joint request shall be accompanied by a copy of the agreement, including any ancillary agreements, and an affidavit of each party to the agreement, setting forth:

- (1) The reasons why it is considered that such agreement is in the public interest; ~~and~~
- (2) A statement that its application was not filed for the purpose of reaching or carrying out such agreement;*
- (3) A certification that neither the applicant nor its principals has received any money or other consideration in excess of the legitimate and prudent expenses of the applicant; Provided That this provision shall not apply to bona fide merger agreements;
- (4) The exact nature and amount of any consideration paid or promised;*
- (5) An itemized accounting of the expenses for which it seeks reimbursement; and*
- (6) The terms of any oral agreement relating to the dismissal or withdrawal of its application.*

(b) Whenever two or more conflicting applications for construction permits for broadcast stations pending before the FCC involve a determination of fair, efficient and equitable distribution of service pursuant to section 307(b) of the Communications Act, and an agreement is made to procure the withdrawal (by amendment to specify a different community or by dismissal pursuant to § 73.3568) of the only application or applications seeking the same facilities for one of the communities involved, all parties thereto shall file the joint request and affidavits specified in paragraph (a) of this section.

(*Added 90-411, 3/21/91)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (1) If upon examination of the proposed agreement the FCC finds that withdrawal of one of the applications would unduly impede achievement of a fair, efficient and equitable distribution of radio service among the several States and communities, then the FCC shall order that further opportunity be afforded for other persons to apply for the facilities specified in the application or applications to be withdrawn before acting upon the pending request for approval of the agreement.
- (2) Upon release of such order, any party proposing to withdraw its application shall cause to be published a notice of such proposed withdrawal at least twice a week for 2 consecutive weeks within the 3-week period immediately following release of the FCC's order, in a daily newspaper of general circulation published in the community in which it was proposed to locate the station. However, if there is no such daily newspaper published in the community, the notice shall be published as follows:
 - (i) If one or more weekly newspapers of general circulation are published in the community in which the station was proposed to be located, notice shall be published in such a weekly newspaper once a week for 3 consecutive weeks within the 4-week period immediately following the release of the FCC's order.
 - (ii) If no weekly newspaper of general circulation is published in the community in which the station was proposed to be located, notice shall be published at least twice a week for 2 consecutive weeks within the 3-week period immediately following the release of the FCC's order in the daily newspaper having the greatest general circulation in the community in which the station was proposed to be located.
- (3) The notice shall state the name of the applicant; the location, frequency and power of the facilities proposed in the application; the location of the station or stations proposed in the applications with which it is in conflict; the fact that the applicant proposes to withdraw the application; and the date upon which the last day of publication shall take place.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (4) Such notice shall additionally include a statement that new applications for a broadcast station on the same frequency, in the same community, with substantially the same engineering characteristics and proposing to serve substantially the same service area as the application sought to be withdrawn, timely filed pursuant to the FCC's rules, or filed, in any event, within 30 days from the last date of publication of the notice (notwithstanding any provisions normally requiring earlier filing of a competing application), will be entitled to comparative consideration with other pending mutually exclusive affidavits.
- (5) Within 7 days of the last day of publication of the notice, the applicant proposing to withdraw shall file a statement in triplicate with the FCC giving the dates on which the notice was published, the text of the notice and the name and location of the newspaper in which the notice was published.
- (6) Where the FCC orders that further opportunity be afforded for other persons to apply for the facilities sought to be withdrawn, no application of any party to the agreement will be acted upon by the FCC less than 30 days from the last day of publication of the notice specified in paragraph (b)(2) of this section. Any applications for a broadcast station on the same frequency in the same community, with substantially the same engineering characteristics and proposing to serve substantially the same service area as the application sought to be withdrawn, filed within the 30-day period following the last date of publication of the notice (notwithstanding any provisions normally requiring earlier filing of a competing application), or otherwise timely filed, will be entitled to comparative consideration with other pending mutually exclusive applications. If the application of any party to which the new application may be in conflict has been designated for hearing, any such new application will be entitled to consolidation in the proceeding.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(c) Except where a joint request is filed pursuant to paragraph (a) of this section, any applicant filing an amendment pursuant to § 73.3522(a) or a request for dismissal pursuant to § 73.3568(a) which would remove a conflict with another pending application; or a petition for leave to amend pursuant to § 73.3522(b) or (c) which would permit a grant of the amended application or an application previously in conflict with the amended application; or a request for dismissal pursuant to § 73.3568(c), shall file with it an affidavit as to whether or not consideration (including an agreement for merger of interests) has been promised to or received by such applicant, directly or indirectly, in connection with the amendment, petition or request.

(d) Upon the filing of a petition for leave to amend or to dismiss an application for broadcast facilities which has been designated for hearing or upon the dismissal of such application on the FCC's own motion pursuant to § 73.3568(b), each applicant or party remaining in hearing, as to whom a conflict would be removed by the amendment or dismissal shall submit for inclusion in the record of that proceeding an affidavit stating whether or not he has directly or indirectly paid or promised consideration (including an agreement for merger of interests) in connection with the removal of such conflict.

(e) Where an affidavit filed pursuant to paragraph (c) of this section states that consideration has been paid or promised, the affidavit shall set forth in full all relevant facts, including, but not limited to, the material listed in paragraph (a) of this section for inclusions in affidavits.

(f) Affidavits filed pursuant to this section shall be executed by the applicant, permittee or licensee, if an individual; a partner having personal knowledge of the facts, if a partnership; or an officer having personal knowledge of the facts, if a corporation or association.

(g) Requests and affidavits which relate to an application which has not been designated for hearing shall bear the file number of such application. If the affiant is also an applicant, the affidavit shall also bear the file number of affiant's pending application(s). Requests and affidavits which relate to an application which is designated for hearing shall bear the file number of that application and the hearing docket number and will be acted on by the presiding officer.

(h) For the purposes of this section an application shall be deemed to be "pending" before the FCC and a party shall be considered to have the status of an "applicant" from the time an application is filed with the FCC until an order of the FCC granting or denying it is no longer subject to reconsideration by the FCC or to review by any court.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(i) For purposes of this section, "legitimate and prudent expenses" are those expenses reasonably incurred by an applicant in preparing, filing, prosecuting, and settling its application for which reimbursement is being sought.

(j) For purposes of this section, "other consideration" consists of financial concessions, including, but not limited to the transfer of assets or the provision of tangible pecuniary benefit, as well as non-financial concessions that confer any type of benefit on the recipient.

(k) For purposes of this section, an "ancillary agreement" means any agreement relating to the dismissal of an application or settling of a proceeding, including any agreement on the part of an applicant or principal of an applicant to render consulting services to another party or principal of another party in the proceeding.

NOTE: Although § 73.780 of the Rules makes this section generally applicable to low power TV, TV translators, and TV booster stations, paragraph (b) of this section shall not be applicable to such stations.

(l) For purposes of this section, an "ancillary agreement" means any agreement relating to the dismissal of an application or settling of a proceeding, including any agreement on the part of an applicant to render consulting services to another party or principal of another party in the proceeding. (Added 90-411, 3/21/91)

[Next Page is No. 671]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.3526 LOCAL PUBLIC INSPECTION FILE OF COMMERCIAL STATIONS.**(a) RECORDS TO BE MAINTAINED.**

Every applicant for a construction permit for a new station in the commercial broadcast services shall maintain for public inspection a file containing the material described in paragraph (a)(1) of this section. Every permittee or licensee of an AM, FM or TV station in the commercial broadcast services shall maintain for public inspection a file containing the material described in paragraphs (a)(1), (2), (3), (4), (5), (6), (7) and (10) of this section. In addition, every permittee or licensee of a TV station shall maintain for public inspection a file containing material described in paragraph (a)(8) of this section; every permittee or licensee of an AM or FM station shall maintain for public inspection a file containing material described in paragraph (a)(9) of this section. The material to be contained in the file is as follows: (Revised .4/3/85)

[Next Page is No. 673]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (1) A copy of every application tendered for filing, with respect to which local public notice is required to be given under the provisions of § 73.3580 or § 73.3594; and all exhibits, letters and other documents tendered for filing as part thereof; all amendments thereto, copies of all documents incorporated therein by reference, all correspondence between the FCC and the applicant pertaining to the application after it has been tendered for filing, and copies of Initial Decisions and Final Decisions in hearing cases pertaining thereto, which according to the provisions of §§ 0.451 through 0.461 of the rules are open for public inspection at the offices of the FCC. Information incorporated by reference which is already in the local file need not be duplicated if the entry making the reference sufficiently identifies the information so that it may be found in the file, and if there has been no change in the document since the date of filing and the applicant, after making the reference, so states. If petitions to deny are filed against the application, and have been duly served on the applicant, a statement that such a petition has been filed shall appear in the local file together with the name and address of the party filing the petition. The file shall also contain a copy of every written citizen agreement. For purposes of this section, a citizen agreement is a written agreement between a broadcast applicant, permittee, or licensee, and one or more citizens or citizen groups, entered for primarily noncommercial purposes. This definition includes those agreements that deal with goals or proposed practices directly or indirectly affecting station operation in the public interest, in areas such as - but not limited to - community ascertainment, programming, and employment. It excludes common commercial agreements such as advertising contracts; union, employment, and personal services contracts; network affiliation, syndication, program supply contracts and so on. However, the mere inclusion of commercial terms in a primarily noncommercial agreement - such as a provision for payment of fees for future services of the citizen-parties (see "Report and Order," Docket 19518, 57 FCC 2d 494 (1976)) - would not cause the agreement to be considered commercial for purposes of this section.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

NOTE: Applications tendered for filing on or before May 13, 1965, which are subsequently designated for hearing after May 13, 1965, with local notice being given pursuant to the provisions of § 73.3594, and material related to such applications, need not be placed in the file required to be kept by this section. Applications tendered for filing after May 13, 1965, which contain major amendments to applications tendered for filing on or before May 13, 1965, with local notice of the amending application being given pursuant to the provisions of § 73.3580, need not be placed in the file required to be kept by this section. (Added 79-371, 7/9/79)

- (2) A copy of every application tendered for filing by the licensee or permittee for such station which is not included in paragraph (a)(1) of this section and which involves changes in program service, which requests an extension of time in which to complete construction of a new station, or which requests consent to involuntary assignment or transfer, or to voluntary assignment or transfer not resulting in a substantial change in ownership or control and which may be applied for on FCC Form 316; and copies of all exhibits, letters, and other documents filed as part thereof, all amendments thereto, all correspondence between the FCC and the applicant pertaining to the application after it has been tendered for filing, and copies of all documents incorporated therein by reference, which according to the provisions of §§ 0.451 through 0.461 of the rules are open for public inspection at the offices of the FCC. Information incorporated by reference which is already in the local file need not be duplicated if the entry making the reference sufficiently identifies the information so that it may be found in the file, and there has been no change in the document since the date of filing and the licensee, after making the reference, so states. If petitions to deny are filed against the application, and have been duly served on the applicant, a statement that such a petition has been filed shall appear in the local file together with the name and address of the party filing the petition.

NOTE: The engineering section of the applications mentioned in paragraphs (a)(1) and (2) of this section, and material related to the engineering section, need not be kept in the file required to be maintained by this paragraph. If such engineering section contains service contour maps submitted with that section, copies of such maps and information (State, county, city, street address, or other identifying information) showing main studio and transmitter location shall be kept in the file.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (3) A copy of every ownership report or supplemental ownership report filed by the licensee or permittee for such station after May 13, 1965, pursuant to the provisions of this part; and copies of all exhibits, letters, and other documents filed as part thereof, all amendments thereto, all correspondence between the permittee or licensee and the FCC pertaining to the reports after they have been filed, and all documents incorporated therein by reference, including contracts listed in such reports in accordance with the provisions of § 73.3615(a)(4)(i) and which according to the provisions of §§ 0.451 through 0.461 of the rules are open for public inspection at the offices of the FCC. Information incorporated by reference which is already in the local file need not be duplicated if the entry making the reference sufficiently identifies the information so that it may be found in the file, and if there has been no change in the document since the date of filing and the licensee or permittee, after making the reference, so states.
- (4) Such records as are required to be kept by § 73.1940 concerning broadcasts by candidates for public office. (Added 79-371, 7/9/79)
- (5) A copy of every annual employment report filed by the licensee or permittee for such station pursuant to the provisions of this part; and copies of all exhibits, letters and other documents filed as part thereof, all amendments thereto, and all correspondence between the permittee or licensee and the FCC pertaining to the reports after they have been filed and all documents incorporated therein by reference and which according to the provisions of §§ 0.451 through 0.461 of the rules are open for public inspection at the offices of the FCC.
- (6) The Public and Broadcasting—A Procedure Manual (see FCC 74-942, 39 FR 32288, September 5, 1974). (Added 79-371, 7/9/79)
- (7) Letters received from members of the public as are required to be retained by § 73.1202. (Added 79-371, 7/9/79)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(8)

- (i) For commercial TV broadcast stations, every three months a list of programs that have provided the station's most significant treatment of community issues during the preceding three month period. The list for each calendar quarter is to be filed by the tenth day of the succeeding calendar quarter (e.g., January 10 for the quarter October-December, April 10 for the quarter January-March, etc.). The list shall include a brief narrative describing what issues were given significant treatment and the programming that provided this treatment. The description of the programs should include, but is not limited to, the time, date, duration and title of each program in which the issue was treated. (Revised 91-113, 1/1/92)

- (ii) For commercial TV broadcast stations, records sufficient to permit substantiation of the station's certification, in its license renewal application, of compliance with the commercial limits on children's programming established in 47 U.S.C. 303a and 47 CFR 73.660. (Added 91-113, 1/1/92)

[Next Page is No. 676.1]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (iii) For commercial TV broadcast stations, on a quarterly basis, a completed Children's Television Programming Report ("Report"), on FCC Form 398, reflecting efforts made by the licensee during the preceding quarter, and efforts planned for the next quarter, to serve the educational and informational needs of children. The Report for each quarter is to be filed by the tenth day of the succeeding calendar quarter. The Report shall identify the licensee's educational and informational programming efforts, including programs aired by the station that are specifically designed to serve the educational and informational needs of children, and it shall explain how programs identified as Core Programming meet the definition set forth in §73.671(c). The Report shall include the name of the individual at the station responsible for collecting comments on the station's compliance with the Children's Television Act, and it shall be separated from other materials in the public inspection file. Licensees shall publicize in an appropriate manner the existence and location of these Reports. For an experimental period of three years, licensees shall file these Reports with the Commission on an annual basis, *i.e.*, four quarterly reports filed jointly each year, preferably in electronic form. These reports shall be filed with the Commission on January 10, 1998, January 10, 1999, and January 10, 2000.

[Next Page is No. 677]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (9) For commercial AM and FM broadcast stations, every three months a list of programs that have provided the station's most significant treatment of community issues during the preceding three month period. The list for each calendar quarter is to be filed by the tenth of the succeeding calendar quarter (e.g., January 10 for the quarter October-December, April 10 for the quarter January-March, etc.). The list shall include a brief narrative describing what issues were given significant treatment and the programming that provided this treatment. The description of the programs should include, but is not limited to, the time, date, duration and title of each program in which the issue was treated. (Added 86-222, 6/27/86)
- (10) Each applicant for renewal of license shall, within 7 days of the last day of broadcast of the local public notice of filing announcements required pursuant to § 73.3580(h), place in the station's local public inspection file a statement certifying compliance with this requirement. The dates and times that the pre-filing and post-filing notices were broadcast and the text thereof shall be made part of the certifying statement. (Edit. Amdt. 4/3/85)
- (11) Every television broadcast station owned or controlled by a television network shall maintain the records required by § 73.661. These records shall be maintained in the file until the remaining syndication rules expire.
- (12) For commercial radio stations, a copy of every agreement or contract involving time brokerage of the licensee's station or of another station by the licensee, with confidential or proprietary information redacted where appropriate. (Revised 92-361, 9/16/92)
- (b) **RESPONSIBILITY IN CASE OF ASSIGNMENT OR TRANSFER.**
- (1) In cases involving applications for consent to assignment of broadcast station construction permits or licenses, with respect to which public notice is required to be given under the provisions of § 73.3580 or § 73.3594, the file mentioned in paragraph (a) of this section shall be maintained by the assignor. If the assignment is consented to by the FCC and consummated, the assignee shall maintain the file commencing with the date on which notice of the consummation of the assignment is filed with the FCC. The file maintained by the assignee shall cover the period both before and after the time when the notice of consummation of assignment was filed. The assignee is responsible for obtaining copies of the necessary documents from the assignor or from the FCC files. (Added 79-371, 7/9/79)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (2) In cases involving applications for consent to transfer of control of a permittee or licensee of a broadcast station, the file mentioned in paragraph (a) of this section shall be maintained by the permittee or licensee. (Added 79-371, 7/9/79)

(c) **STATION TO WHICH REPORTS PERTAIN.**

The file need contain only applications, ownership reports, and related material that concern the station for which the file is kept. Applicants, permittees, and licensees need not keep in the file copies of such applications, reports, and material which pertain to other stations with regard to which they may be applicants, permittees, or licensees, except to the extent that such information is reflected in the materials required to be kept under the provisions of this section. (Added 79-371, 7/9/79)

(d) **LOCATION OF RECORDS.**

The file shall be maintained at the main studio of the station, where such studio is located in the community to which the station is licensed or where such studio is located outside of the community of license pursuant to authorization granted under § 73.1125(a) of the rules prior to July 16, 1987, or at any accessible place (such as a public registry for documents or an attorney's office) in the community to which the station is or is proposed to be licensed. The file shall be available for public inspection at any time during regular business hours. (Revised 88-235, 8/29/88)

(e) **PERIOD OF RETENTION.**

The records specified in paragraph (a)(4) of this section shall be retained for periods specified in § 73.1940 (2 years). The manual specified in paragraph (a)(6) of this section shall be retained indefinitely. The letters specified in paragraph (a)(7) of this section shall be retained for the period specified in § 73.1202 (3 years). The "significant treatment of community issues" list and the records demonstrating the station's response to the educational and informational needs of children specified in paragraph (a)(8) of this section shall be retained by commercial broadcast television licensees for the term of license (5 years). Commercial AM and FM radio licensees shall retain the "significant treatment of community issues list" specified in paragraph (a)(9) of this section for the term of license (7 years). The certification specified in paragraph (a)(10) of this section shall be retained for the period specified in § 73.3580 (for as long as the application to which it refers). The records specified in paragraph (a)(12) of this section shall be retained as long as the contract or agreement is in force. The records specified in paragraphs (a)(1), (2), (3), and (5) of this section shall be retained as follows: (Revised 91-140, 8/1/92)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (1) The applicant for a construction permit for a new station shall maintain such a file so long as the application is pending before the FCC or any proceeding involving that application is pending before the courts. (If the application is granted, paragraph (e)(2) of this section shall apply.) (Added 79-371, 7/9/79)
- (2) The permittee or licensee shall maintain such a file so long as an authorization to operate the station is outstanding, and shall permit public inspection of the material as long as it is retained by the licensee even though the request for inspection is made after the conclusion of the required retention period specified in this paragraph. However, material which is voluntarily retained after the required retention time may be kept in a form and place convenient to the licensee and shall be made available to the inquiring party, in good faith after written request, at a time and place convenient to both the party and the licensee.

Applications and related material placed in the file shall be retained for a period beginning with the date that they are tendered for filing and ending with the expiration of one license term (five (5) years for television licensees or seven (7) years for radio licensees) or until the grant of the first renewal application of the television or radio broadcast license in question, whichever is later, with two exceptions: (Revised 88-98, 5/23/88)

- (i) Engineering material pertaining to a former mode of operation need not be retained longer than 3 years after a station commences operation under a new or modified mode; and (Revised 88-98, 5/23/88)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (ii) Material having a substantial bearing on a matter which is the subject of a claim against the licensee, or relating to an FCC investigation or a complaint to the FCC of which the licensee has been advised, shall be retained until the licensee is notified in writing that the material may be discarded, or, if the matter is a private one, the claim has been satisfied or is barred by statute of limitations. Where an application or related material incorporates by reference material in earlier applications and material concerning programming and related matters (Section IV and related material), the material so referred to shall be retained as long as the application referring to it. If a written agreement is not incorporated in an application tendered for filing with the FCC, the starting date of the retention period for that agreement is the date the agreement is executed. (Added 79-371, 7/9/79)

(f) Copies of any material required to be in the public file of any applicant for a construction permit, or permittee or licensee of any commercial TV or radio station shall be available for machine reproduction upon request made in person, provided the requesting party shall pay the reasonable cost of reproduction. Requests for machine copies shall be fulfilled at a location specified by the applicant, permittee or licensee, within a reasonable period of time which, in no event, shall be longer than seven days unless reproduction facilities are unavailable in the applicant's, permittee's, or licensee's community. The applicant, permittee or licensee is not required to honor requests made by mail, but may do so if it chooses. (Editorial Amdt., 4/3/85)

(g) Statements of commercial television station's election with respect to either must-carry or retransmission consent as defined in § 76.64 of this chapter shall be retained in the public file of the television station for the duration of three year election period to which the statement applies.

[Next Page is No. 680.1]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.3527 LOCAL PUBLIC INSPECTION FILE OF NONCOMMERCIAL
EDUCATIONAL STATIONS.

(a) RECORDS TO BE MAINTAINED.

Every applicant for a construction permit for a new station in the non-commercial educational broadcast services shall maintain for public inspection a file containing the material in paragraph (a)(1) of this paragraph-section. Every permittee or licensee of a station in the noncommercial educational broadcast services shall maintain for public inspection a file containing the material described in paragraphs (a)(1) through (8) (9) of this paragraph-section. ~~In addition, every permittee or licensee of a TV station shall maintain for public inspection a file containing the material described in (9) of this paragraph.~~ The material to be contained in this file is as follows:

- (1) A copy of every application tendered for filing with respect to which local public notice is required to be given under the provisions of §73.3580 or §73.3594; and all exhibits, letters and other documents tendered for filing as part thereof, all amendments thereto, copies of all documents incorporated therein by reference, all correspondence between the FCC and the applicant pertaining to the application after it has been tendered for filing, and copies of Initial Decisions and Final Decisions in hearing cases pertaining thereto, which according to the provisions of §§0.451 through 0.461 of the rules are open for public inspection at the offices of the FCC. Information incorporated by reference which is already in the local file need not be duplicated if the entry making the reference sufficiently identifies the information so that it may be found in the file, and if there has been no change in the document since the date of filing and the applicant, after making the reference, so states. If petitions to deny are filed against the application, and have been duly served on the applicant, a statement that such a petition has been filed shall appear in the local file together with the name and address of the party filing the petition.

NOTE.—Applications tendered for filing on or before May 13, 1965, which were subsequently designated for hearing after May 13, 1965, with local notice being given pursuant to the provisions of §73.3594, and material related to such applications, need not be placed in the file required to be kept by this section. Materials tendered for filing after May 13, 1965, which contain major amendments to applications tendered for filing on or before May 13, 1965, with local notice of the amending application being given pursuant to the provisions of §73.3580 need not be placed in the file required to be kept by this section. (Added 79-371, 7/9/79)

[Next Page is No. 681]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (2) A copy of every application tendered for filing by the licensee or permittee for such station after May 13, 1965, pursuant to the provisions of this part, which is not included in subparagraph (a)(1) of this ~~paragraph~~ section and which involves changes in the program service, which requests an extension of time in which to complete construction of a new station, or which requests consent to involuntary assignment or transfer, or to voluntary assignment or transfer not resulting in a substantial changes in ownership or control and which may be applied for on FCC Form 316; and copies of all exhibits, letters, and other documents filed as part thereof, all amendments thereto, all correspondence between the FCC and the applicant pertaining to the application after it has been tendered for filing, and copies of all documents incorporated therein by reference, which according to the provisions of §§0.451 through 0.461 of this ~~chapter~~ the rules are open for public inspection at the offices of the FCC. Information incorporated by reference which is already in the local file need not be duplicated if the entry making the reference sufficiently identifies the information so that it may be found in the file, and there has been no change in the document since the date of filing and the licensee, after making the reference so states. If petitions to deny are filed against the application, and have been duly served on the applicant, a statement that such a petition has been filed shall appear in the local file together with the name and address of the party filing the petition.

NOTE.—The engineering section of the applications mentioned in paragraphs (a)(1) and (2) of this section, and material related to the engineering section, need not be kept in the file required to be maintained by this paragraph. If such engineering section contains service contour maps submitted with that section, copies of such maps and information (State, county, city, street address, or other identifying information) showing main studio and transmitter location shall be kept in the file.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (3) A copy of contracts listed in ownership reports filed in accordance with the provisions of §73.3615(e) and which according to the provisions of §§0.451 through 0.461 of the rules are open for public inspection at the offices of the FCC. Information incorporated by reference which is already in the local file need not be duplicated if the entry making the reference sufficiently identifies the information so that it may be found in the file, and if there has been no change in the document since the date of filing and the licensee or permittee, after making the reference, so states. (Edit. Amdt. 4/3/85)
- (4) Such records as are required to be kept by §73.1940, "Broadcasts by candidates for public office." (Added 79-371, 7/9/79)
- (5) A copy of every annual employment report filed by the licensee or permittee for such station pursuant to the provisions of this part; and copies of all exhibits, letters and other documents filed as part thereof, all amendments thereto, all correspondence between the permittee or licensee and the FCC pertaining to the reports after they have been filed and all documents incorporated therein by reference and which, according to the provisions of §§0.451 through 0.461 of the rules, are open for public inspection at the offices of the FCC. (Edit. Amdt. 4/3/85)
- (6) The Public and Broadcasting: Revised Edition (see FCC 74-942, 39 FR 32288, September 5, 1974). (Added 79-371, 7/9/79)

EDITOR'S NOTE: Section 73.3527(a)(7) has been so completely revised by Amendment No. 88-52, that the previous wording is not shown.

- (7) For nonexempt noncommercial educational broadcast stations, every three months a list of programs that have provided the station's most significant treatment of community issues during the preceding three month period. This list for each calendar quarter is to be filed by the tenth day of the succeeding calendar quarter (e.g. January 10 for the quarter October-December, April 10 for the quarter January-March, etc.). This list shall include a brief narrative describing what issues were given significant treatment and the programming that provided this treatment. The description of the programs should include, but is not limited to, the time, date, duration and title of each program in which the issue was treated.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (8) The lists of donors supporting specific programs.
(Revised 84-294, 9/25/84)
- ~~(10)~~ (9) Each applicant for renewal of license shall, within 7 days of the last day of broadcast of the local public notice of filing announcements required pursuant to § 73.3580(h), place in the station's public inspection file a statement certifying compliance with this requirement. The dates and times that the pre-filing and post-filing notices were broadcast and the text thereof shall be made part of the certifying statement.

~~(b)~~ [RESERVED]

~~(c)~~ [RESERVED]

~~(d)~~ (b) **RESPONSIBILITY IN CASE OF ASSIGNMENT OR TRANSFER.**

- (1) In cases involving applications for consent to assignment of broadcast station construction permits or licenses, with respect to which public notice is required to be given under the provisions of § 73.3580 or § 73.3594, the file mentioned in paragraph (a) of this section shall be maintained by the assignor. If the assignment is consented to by the FCC, and consummated, the assignee shall maintain the file commencing with the date on which notice of the consummation of the assignment is filed with the FCC. The file maintained by the assignee shall cover the period both before and after the time when the notice of consummation of assignment was filed. The assignee is responsible for obtaining copies of the necessary documents from the assignor or from the FCC files.
(Added 79-371, 7/9/79)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (2) In cases involving applications for consent to transfer of control of a permittee or licensee of a broadcast station, the file mentioned in paragraph (a) of this section shall be maintained by the permittee or licensee. (Added 79-371, 7/9/79)

(c) STATION TO WHICH RECORDS PERTAIN.

The file need contain only applications, ownership reports, and related material that concern the station for which the file is kept. Applicants, permittees and licensees need not keep in the file copies of such applications, reports and material which pertain to other stations with regard to which they may be applicants, permittees, or licensees, except to the extent that such information is reflected in the materials required to be kept under the provisions of this section. (Edit. Amdt. 4/3/85)

(d) LOCATION OF RECORDS.

The file shall be maintained at the main studio of the station, where such studio is located in the community to which the station is licensed; or where such studio is located outside of the community of license pursuant to authorization granted under § 73.1125(a) of the rules prior to July 16, 1987, or at any accessible place (such as a public registry for documents or an attorney's office) in the community to which the station is or is proposed to be licensed, ~~and~~ The file shall be available for public inspection at any time during regular business hours.

(e) PERIOD OF RETENTION.

The records specified in paragraph (a)(4) of this section shall be retained for the period specified in § 73.1940 (two years). The manual specified in paragraph (a)(6) of this section shall be retained indefinitely. The issues/programs list specified in (a)(7) shall be retained for the term of the license (5 years and 7 years for TV and radio respectively). The donor lists specified in paragraph (a)(8) of this section shall be retained for two years. The certification specified in paragraph (a)(9) of this section shall be retained for the period specified in § 73.3580 (for as long as the application to which it refers). The records specified in paragraphs (a)(1), (2), (3), and (5) of this section must be retained as follows: (Edit. Amdt. 4/3/85)

- (1) The applicant for a construction permit for a new station shall maintain such a file so long as the proceeding in which that application was filed is pending before the FCC or any proceeding involving that application is pending before the courts. (If the application is granted, paragraph (e)(2) of this section shall apply.) (Edit. Amdt. 4/3/85)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (2) The permittee or licensee shall maintain such a file ~~of such records~~ so long as an authorization to operate the station is outstanding, and shall permit public inspection of the material so long as it is retained by the licensee even though the request for inspection is made after the conclusion of the required retention period specified in this ~~subparagraph~~. However, material which is voluntarily retained after the required retention time may be kept in a form and place convenient to the licensee, and shall be made available to the inquiring party, in good faith after written request, at a time and place convenient to both the party and the licensee.

Applications and related material placed in the file shall be retained for a period ~~of 7 years from beginning with the date the application is that they are~~ tendered for filing with the FCC, with two exceptions: ~~First, engineering material pertaining to a former mode of operation need not be retained longer than 3 years after a station commences operation under a new or modified mode; and seconds, all of the material shall be retained for whatever longer period is necessary to comply with the following requirements: and ending with the expiration of one license term (five (5) years for television licensees or seven (7) years for radio licensees) or until the grant of the first renewal application of the television or radio broadcast license in question, whichever is later, with two exceptions;~~

- (i) ~~Material shall be retained until final FCC action on the second renewal application following the application or other material in question; Engineering material pertaining to a former mode of operation need not be retained longer than 3 years after a station commences operation under a new or modified mode; and~~

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (ii) Material having a substantial bearing on a matter which is the subject of a claim against the licensee, or relating to an FCC investigation or a complaint to the FCC of which the licensee has been advised, shall be retained until the licensee is notified in writing that the material may be discarded, or, if the matter is a private one, the claim has been satisfied or is barred by statutes of limitations. Where an application or related material incorporates by reference material in an earlier application and material concerning programming and related matters (section IV and related material), the material so referred to shall be retained as long as the application referring to it. (Revised 7/3/85)

(f) Copies of any material required to be in the public file of any applicant for a construction permit, or permittee or licensee of any noncommercial educational TV or radio station shall be available for machine reproduction upon request made in person, provided the requesting party shall pay the reasonable costs of reproduction. Requests for machine copies shall be fulfilled at a location specified by the applicant, permittee or licensee, within a reasonable period of time which, in no event, shall be longer than seven days unless reproduction facilities are unavailable in the applicant's, permittee's or licensee's community. The applicant, permittee or licensee is not required to honor requests made by mail, but may do so if it chooses. (Revised 7/3/85)

(g) Noncommercial television stations requesting mandatory carriage on any cable system pursuant to § 76.56 of this chapter shall place a copy of such request in its public file and shall retain both the request and relevant correspondence for the duration of any period to which the statement applies.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

**73.3533 APPLICATION FOR CONSTRUCTION PERMIT OR
MODIFICATION OF CONSTRUCTION PERMIT.**

(a) Application for construction permit, or modification of a construction permit, for a new facility or change in an existing facility is to be made on the following forms: (Revised 9/22/88)

- (1) FCC Form 301, "Application for Authority to Construct or Make Changes in an Existing Commercial Broadcast Station." (Added 79-371, 7/9/79)
- (2) FCC Form 309, "Application for Authority to Construct or Make Changes in an Existing International or Experimental Broadcast Station." (Edit. Amdt. 8/15/84)
- (3) FCC Form 313, "Application for Authorization in the Auxiliary Broadcast Services." (Added 79-371, 7/9/79)
- (4) FCC Form 330, "Application for Authorization to Construct New or Make Changes in an Instructional Television Fixed and/or Response Station(s), or to Assign or Transfer Such Station(s)." (Added 9/22/88)
- (5) FCC Form 340, "Application for Authority to Construct or Make Changes in a Noncommercial Educational Broadcast Station."
- (6) FCC Form 346, "Application for Authority to Construct or Make Changes in a Low Power TV, TV Translator or TV Booster Station. (Revised 9/22/88)
- (7) FCC Form 349, "Application for Authority to Construct or Make Changes in an FM Translator or FM Booster Station. (Added 9/22/88)

(b) The filing of an application for modification of construction permit does not extend the expiration date of the construction permit. Extension of the expiration date must be applied for on FCC Form 307, in accordance with the provisions of § 73.3534. (Revised 9/22/88)

(c) In each application referred to in paragraph (a) of this section, the applicant will provide the Antenna Structure Registration Number (FCC Form 854R) of the antenna structure upon which it will locate its proposed antenna. In the event the antenna structure does not already have a Registration Number, either the antenna structure owner shall file FCC Form 854 ("Application for Antenna Structure Registration") in accordance with part 17 of this chapter or the applicant shall provide a detailed explanation why registration and clearance of the antenna structure is not necessary.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.3534 APPLICATION FOR EXTENSION OF CONSTRUCTION PERMIT OR FOR CONSTRUCTION PERMIT TO REPLACE EXPIRED CONSTRUCTION PERMIT.

(a) Application for extension of time within which to construct a station shall be filed on FCC Form ~~701~~ 307, "Application for Extension of Broadcast Construction Permit or to Replace Expired Construction Permit." The application shall be filed at least 30 days prior to the expiration date of the construction permit if the facts supporting such application for extension are known to the applicant in time to permit such filing. In other cases, an application will be accepted upon a showing satisfactory to the FCC of sufficient reasons for filing within less than 30 days prior to the expiration date.

(b) Applications for extension of time to construct broadcast stations, with the exception of International Broadcast and Instructional TV Fixed stations, will be granted only if one of the following three circumstances have occurred: (1) Construction is complete and testing is underway looking toward prompt filing of a license application; (2) substantial progress has been made i.e., demonstration is on order or on hand, site acquired, site cleared and construction proceeding toward completion; or (3) no progress has been made for reasons clearly beyond the control of the permittee (such as delays caused by governmental budgetary processes and zoning problems) but the permittee has taken all possible steps to expeditiously resolve the problem and proceed with construction. (Added 85-647, 12/10/85)

(c) Applications for extension of time to construct International Broadcast and Instructional TV Fixed stations will be granted upon a specific and detailed showing that the failure to complete was due to causes not under the control of the permittee, or upon a specific and detailed showing of other sufficient to justify an extension. (Added 85-647, 12/10/85)

(d) If the application for extension of time within which to construct a station is approved, such an extension will be limited to a period of no more than 6 months except when an assignment or transfer has been approved that provides for a longer period up to a maximum of 12 months from the date of consummation. (Added 85-647, 12/10/85)

(e) Application for a construction permit to replace an expired construction permit shall be filed on FCC Form ~~701~~ 307. Such applications must be filed within 30 days of the expiration date of the authorization sought to be replaced. If approved, such authorization shall specify a period of not more than 6 months within which construction shall be completed and application for license filed.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.3535 APPLICATION TO MODIFY AUTHORIZED BUT UNBUILT FACILITIES, OR TO ASSIGN OR TRANSFER CONTROL OF AN UNBUILT FACILITY.

(a) If a permittee finds it necessary to file either an application to modify its authorized, but unbuilt facilities, or an assignment/transfer application, such application shall be filed within the first 9 months of the issuance of the original construction permit for radio and other broadcast and auxiliary stations, or within 12 months of the issuance of the original construction permit for television facilities. Before such an application can be granted, the permittee or assignee must certify that it will immediately begin building after the modification is granted or the assignment is consummated.

(b) Modification and assignment applications filed after the time periods stated in paragraph (a) will not be granted absent a showing that one of the following three criteria apply: (1) Construction is complete and testing is underway looking toward prompt filing of a license application; (2) substantial progress has been made i.e., demonstration that equipment is on order or on hand, site acquired, site cleared and construction proceeding toward completion; or (3) no progress has been made for reasons clearly beyond the control of the permittee (such as delays caused by governmental budgetary processes and zoning problems) but the permittee has taken all possible steps to expeditiously resolve the problem and proceed with construction. A certification by the permittee or the assignee that it immediately will begin building after the modification is granted or the assignment is consummated is also necessary. A seller must make the "one of three criteria" showing in an assignment application.

(c) If a modification is granted, the time period allowed for construction will be 6 months from the issuance of the authorization to modify or the remainder of the construction period, whichever is longer. Also, in the case of an assignment, the time period allowed for construction will be 12 months from the consummation of the assignment or the remainder of the construction period, whichever is longer. The extension will be given subject to the condition that the modification is completed or the assignment is consummated. Failure to modify or consummate within the time allowed will result in cancellation of the construction permit.

(d) We will not entertain an application for modification of an authorized but unbuilt facility or an application for assignment or transfer of control of an unbuilt facility if filed after the expiration of the initial construction period.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

**73.3536 APPLICATION FOR LICENSE TO COVER
CONSTRUCTION PERMIT.**

(a) The application for station license shall be filed by the permittee pursuant to the requirements of § 73.1620 Program Tests. (Edit. Amdt. 5/20/86)

(b) The following application forms shall be used: (Added 79-371, 7/9/79)

- (1) (i) Form 302-AM for AM stations, "Application for New AM Station Broadcast License."
 - (ii) Form 302-FM for FM stations, "Application for FM Station License."
 - (iii) Form 302-TV for television stations, "Application for TV station Broadcast License."
- (2) FCC Form 310, "Application for an International or Experimental Broadcast Station License." (Edit. Amdt. 8/15/84)
 - (3) FCC Form 313, "Application for Authorization in the Auxiliary Broadcast Services." (Added 79-371, 7/9/79)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (4) FCC Form 330-L, "Application for Instructional Television Fixed Station License." (Edit. Amdt. 10/1/85)
- (5) FCC Form 347, "Application for a Low Power TV, TV Translator or TV Booster Station License. (Edit. Amdt. 9/22/88)
- (6) FCC Form 350, "Application for an FM Translator or FM Booster Station License. (Edit. Amdt. 9/22/88)

73.3537 APPLICATION FOR LICENSE TO USE FORMER MAIN ANTENNA AS AN AUXILIARY.

See § 73.1675, Auxiliary facility.

73.3538 APPLICATION TO MAKE CHANGES IN AN EXISTING STATION.

Where prior authority is required from the FCC to make changes in an existing station, the following procedures shall be used to request that authority:

- (a) An application for a construction permit using the forms listed in § 73.3533 must be filed for authority to:
 - (1) Make any of the changes listed in § 73.1690(b).
 - (2) ~~A change in~~ the hours of operation of an AM station, where the hours of operation are specified on the ~~station~~ license or permit.
 - (3) Install a transmitter which has not been approved (type accepted) by the FCC for use by licensed broadcast stations.
 - (4) Any change in the location, height, or directional radiating characteristics of the antenna or antenna system. (Added 79-371, 7/9/79)

[Next Page is No. 695]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (5) ~~To move the main studio location of an AM station to a location outside the principal community contour or to move the studio from one location outside the principal community contour to another such location (other than to a point within the principal community). See § 73.1125.~~
- (6) ~~To move the main studio of an FM station to a location outside the principal community contour or to move the studio from one location outside the principal community contour to another such location (other than to the collocated studio transmitter site of a commonly owned AM station licensed to the same community or to a point within the same principal community). See § 73.1125.~~
- (7) ~~To move the main studio of a TV station to a location outside the principal community contour or to move the studio from one location outside the principal community contour to another such location (other than to a point within the principal community). See § 73.1125.~~

(b) An informal application filed in accordance with § 73.3511 is to be used to obtain authority to make the following changes in the station authorization: (Added 79-371, 7/9/79)

- (1) To specify a new AM station directional antenna field monitoring point as a substitute for one that is no longer suitable or available, such as due to construction. The request is to include sufficient measurement data taken at the new monitoring point to establish its reliability in comparison with data taken at the old monitoring point on the same radial, the routing directions to the new point, a location photograph, and such other information as the FCC may request. (Added 79-371, 7/9/79)
- (2) To modify or discontinue the obstruction marking or lighting of the antenna supporting structure where that specified on the station authorization either differs from that specified in FCC Rules, Part 17, or is not appropriate for other reasons. (Added 79-371, 7/9/79)
- (3) Relocation of a main studio outside the principal community contour may require the filing and approval of a letter request for authority to make this change prior to implementation. See § 73.1125.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.3539 APPLICATION FOR RENEWAL OF LICENSE.

(a) Unless otherwise directed by the FCC, an application for renewal of license shall be filed not later than the first day of the fourth full calendar month prior to the expiration date of the license sought to be renewed, except that applications for renewal of license of an experimental broadcast station shall be filed not later than the first day of the second full calendar month prior to the expiration date of the license sought to be renewed. If any deadline prescribed in this paragraph falls on a nonbusiness day, the cutoff shall be the close of business of the first full business day thereafter. (Edit. Amdt. 8/15/84)

(b) No application for renewal of license of any broadcast station will be considered unless there is on file with the FCC the information currently required by §§ 73.3612 through 73.3615, inclusive, for the particular class of station. (Editorial Amdt. 7/7/82)

(c) Whenever the FCC regards an application for a renewal of license as essential to the proper conduct of a hearing or investigation, and specifically directs that it be filed by a date certain, such application shall be filed within the time thus specified. If the licensee fails to file such application within the prescribed time, the hearing or investigation shall proceed as if such renewal application had been received. (Added 79-371, 7/9/79)

(d) Renewal application forms titles and numbers are listed in § 73.3500, Application and Report Forms. (Editorial Amdt. 7/7/82)

[Next Page is No. 701]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.3540 APPLICATION FOR VOLUNTARY ASSIGNMENT OR TRANSFER OF CONTROL.

(a) Prior consent of the FCC must be obtained for a voluntary assignment or transfer of control. (Edit. Amdt. 8/12/85)

(b) Application should be filed with the FCC at least 45 days prior to the contemplated effective date of assignment or transfer of control. (Added 79-371, 7/9/79)

(c) Application for consent to the assignment of construction permit or license must be filed on FCC Form 314 "Assignment of License" or FCC Form 316 "Short Form" (see paragraph (f) of this section). (Revised 83-129, 6/13/83)

(d) Application for consent to the transfer of control of a corporation holding a construction permit or license must be filed on FCC Form 315 "Transfer of Control" or FCC Form 316 "Short Form" (see paragraph (f) of this section). (Edit. Amdt. 8/12/85)

(e) Application for consent to the assignment of construction permit or license or to the transfer of control of a corporate licensee or permittee for an FM or TV translator station, a low power TV station and any associated auxiliary station, such as translator microwave relay stations and UHF translator booster stations, only must be filed on FCC Form 345 "Application for Transfer of Control of Corporate Licensee or Permittee, or Assignment of License or Permit for an FM or TV translator Station, or a Low Power TV Station." (Added 83-129, 6/13/83)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(f) The following assignment or transfer applications may be filed on FCC "Short form" 316:

- (1) Assignment from an individual or individuals (including partnerships) to a corporation owned and controlled by such individuals or partnerships without any substantial change in their relative interests; (Added 79-371, 7/9/79)
- (2) Assignment from a corporation to its individual stockholders without effecting any substantial change in the disposition of their interests; (Added 79-371, 7/9/79)
- (3) Assignment or transfer by which certain stockholders retire and the interest transferred is not a controlling one; (Added 79-371, 7/9/79)
- (4) Corporate reorganization which involves no substantial change in the beneficial ownership of the corporation; (Added 79-371, 7/9/79)
- (5) Assignment or transfer from a corporation to a wholly owned subsidiary thereof or vice versa, or where there is an assignment from a corporation to a corporation owned or controlled by the assignor stockholders without substantial change in their interests; or (Added 79-371, 7/9/79)
- (6) Assignment of less than a controlling interest in a partnership. (Added 79-371, 7/9/79)

73.3541 APPLICATION FOR INVOLUNTARY ASSIGNMENT OF LICENSE OR TRANSFER OF CONTROL.

(a) The FCC shall be notified in writing promptly of the death or legal disability of an individual permittee or licensee, a member of a partnership, or a person directly or indirectly in control of a corporation which is a permittee or licensee. (Added 79-371, 7/9/79)

(b) Within 30 days after the occurrence of such death or legal disability, an application on FCC Form 316 shall be filed requesting consent to involuntary assignment of such permit or license or for involuntary transfer of control of such corporation to a person or entity legally qualified to succeed to the foregoing interests under the laws of the place having jurisdiction over the estate involved. (Added 79-371, 7/9/79)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

EDITOR'S NOTE: Section 73.3542 has been so completely revised as of July 31, 1985 that the previous wording is not shown.

73.3542 APPLICATION FOR EMERGENCY AUTHORIZATION.

(a) Authority may be granted, on a temporary basis, in extraordinary circumstances requiring emergency operation to serve the public interest. Such situations include: emergencies involving danger to life and property; a national emergency proclaimed by the President or the Congress of the U.S.A. and; the continuance of any war in which the United States is engaged, and where such action is necessary for the national defense or security or otherwise in furtherance of the war effort.

- (1) An informal application may be used. The FCC may grant such construction permits, station licenses, modifications or renewals thereof, without the filing of a formal application.
- (2) No authorization so granted shall continue to be effective beyond the period of the emergency or war requiring it.
- (3) Each individual request submitted under the provisions of this paragraph shall contain, as a minimum requirement, the following information:
 - (i) Name and address of applicant.
 - (ii) Location of proposed installation or operation.
 - (iii) Official call letters of any valid station authorization already held by applicant and the station location.
 - (iv) Type of service desired (not required for renewal or modification unless class of station is to be modified).
 - (v) Frequency assignment, authorized transmitter power(s), authorized class(es) of emission desired (not required for renewal; required for modification only to the extent such information may be involved).
 - (vi) Equipment to be used, specifying the manufacturer and type or model number (not required for renewal; required for modification only to the extent such information may be involved).

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (vii) Statements to the extent necessary for the FCC to determine whether or not the granting of the desired authorization will be in accordance with the citizenship eligibility requirements of section 310 of the Communications Act. (Added Edit. Amdt., 7/31/85)
- (viii) Statement of facts which, in the opinion of the applicant, constitute an emergency to be found by the FCC for the purpose of this section. This statement must also include the estimated duration of the emergency and if during an emergency or war declared by the President or Congress, why such action, without formal application, is necessary for the national defense or security or in furtherance of the war effort. . (Added Edit. Amdt., 7/31/85)

(b) Emergency operating authority issued under this section may be cancelled ~~cancelled~~ or modified by the FCC without prior notice or right to hearing. *See also* § 73.1250, Broadcasting Emergency Information, for situations in which emergency operation may be conducted without prior authorization, and § 73.1635, Special Temporary Authorization (STA), for temporary operating authorizations necessitated by circumstances not within the ambit of this section.

73.3543 APPLICATION FOR RENEWAL OR MODIFICATION OF SPECIAL SERVICE AUTHORIZATION.

(a) No new special service authorization will be issued. However, consideration will be given to renewal or modification of a special service authorization which was outstanding on February 3, 1958, providing a satisfactory showing has been made in regard to the following, among others: (Added 79-371, 7/9/79)

- (1) That the requested operation may not be granted on a regular basis under the existing rules governing the operation of AM stations; (Added 79-371, 7/9/79)
- (2) That experimental operation is not involved as provided for by § 73.1510 (Experimental authorizations); and (Added 79-371, 7/9/79)
- (3) That public interest, convenience and necessity will be served by the authorization requested. (Added 79-371, 7/9/79)

[Next Page is No. 704.1]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.3544 APPLICATION TO OBTAIN A MODIFIED STATION LICENSE.

Where prior authority from the FCC is not required to make certain changes in the station authorization or facilities, but a modified station license must be obtained, the following procedures shall be used to obtain modification of the station license: (Added 79-371, 7/9/79)

- (a) The changes specified in § 73.1690(c) may be made by the filing of a license application using the forms listed in § 73.3536(b)(1). (Added 97-290, 12/1/97)
 - (1) A change in the type of FM or TV transmitting antenna where prior authority from the FCC is not required to make such a change. See § 73.1690, Modification of transmission systems. (Edit. Amdt. 8/12/85)
 - (2) A change in the output power of FM or TV aural or visual transmitters to accommodate a change in the antenna type or transmission line. (Added 79-371, 7/9/79)

- (b) An informal application, see § 73.3511(b) may be filed with the FCC in Washington, DC, Attention: Audio Services Division (radio) or Video Services Division (television), Mass Media Bureau, according to the procedures specified in § 73.3511(b) shall be used to cover the following changes:
 - (1) A correction of the routing instructions and description of an AM station directional antenna system field monitoring point, when the point itself is not changed. (Edit. Amdt. 8/12/85)
 - (2) A change in the type of AM station directional antenna monitor. See § 73.69. (Edit. Amdt. 8/12/85)
 - (3) A change in the location of the station main studio when prior authority to move the main studio location is not required. (Edit. Amdt. 8/12/85)
 - (4) The location of a remote control point of an AM or FM station when prior authority to operate by remote control is not required. (Edit. Amdt. 8/12/85)

- (c) A change in the name of the licensee where no change in ownership or control is involved may be accomplished by written notification by the licensee to the Commission. (Edit. Amdt. 4/1/80)

[Next Page is No. 705]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

**73.3545 APPLICATION FOR PERMIT TO DELIVER PROGRAMS
TO FOREIGN STATIONS.**

* Application under Section 325~~(b)~~ (c) of the Communications Act for authorization to locate, use, or maintain a broadcast studio in connection with a foreign station consistently received in the United States, should be made on FCC Form 308, "Application for Permit to Deliver Programs to Foreign Broadcast Stations." An informal application may be used by applicants holding an AM, FM or TV broadcast station license or construction permit. Informal applications must, however, contain a description of the nature and character of the programming proposed, together with other information requested on Page 4 of Form 308.

73.3548 REMOVED (12/1/84, 84-549)

[Next Page is No. 713]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

**73.3549 REQUESTS FOR EXTENSION OF TIME ~~AUTHORITY TO~~
OPERATE WITHOUT REQUIRED MONITORS,
INDICATING INSTRUMENTS, AND EAS ENCODERS
AND DECODERS.**

Requests for extension of authority to operate without required monitors, transmission system indicating instruments, or encoders and decoders for monitoring and generating the EAS codes and Attention Signal should be made to the FCC in Washington, DC, Attention: Audio Services Division (radio) or Video Services Division (television), Mass Media Bureau, ~~Engineer in Charge of the Field Office in which the station is operating.~~ Such requests must contain information as to when and what steps were taken to repair or replace the defective equipment and a brief description of the alternative procedures being used while the defective equipment is out of service.

**73.3550 REQUESTS FOR NEW OR MODIFIED CALL SIGN
ASSIGNMENTS.**

(a) Requests for new or modified call sign assignments for broadcast stations shall be made by letter to the Secretary, FCC, Washington, DC 20554. An original and one copy of the letter shall be submitted. Incomplete or otherwise defective filings will be returned by the FCC. As many as five call sign choices, listed in descending order of preference, may be included in a single request. A call sign may not be reserved. (Revised 4/1/87, 86-562)

(b) No request for a new call sign assignment will be accepted from an applicant for a new station until the FCC has granted a construction permit. Failure by the permittee of a new station to request the assignment of a specific call sign within 30 days of grant of the construction permit will result in the FCC, on its own motion, assigning an appropriate call sign. All initial construction permits for low power TV stations will be issued with a five-character low power TV call sign. (Revised 8/19/94, 94-120)

(c) An applicant for transfer or assignment of an outstanding construction permit or license may, in accordance with this section, request a new call sign assignment at the time the application for transfer or assignment is filed, or at any time thereafter. In the absence of written consent of the proposed transferor or assignor, no change in call sign assignment will be made effective until such application is granted by the FCC and the transaction consummated. (Added 83-573, 1/30/84)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(d) Where an application is granted by the FCC for transfer or assignment of the construction permit or license of a station whose existing call sign conforms to that of a commonly owned station not part of the transaction, the licensee shall, within 30 days after consummation, request a different call sign or submit a statement of written consent to retain the conforming call sign from the existing owner and the licensee of any other station that may be using the station's call sign. In such cases, should a suitable application or proper consent statement not be submitted within that period of time, the FCC will, on its own motion, select an appropriate call sign and effect the change in call sign assignment. (Revised 12/14/87, 87-337)

(e) Call signs beginning with the letter "K" will not be assigned to stations located east of the Mississippi River, nor will call signs beginning with the letter "W" be assigned to stations located west of the Mississippi River. (Added 83-573, 1/20/84)

(f) Only four-letter call signs (plus an LP suffix or FM or TV suffixes, if used) will be assigned. However, subject to the other provisions of this section, a call sign of a station may be conformed to a commonly owned station holding a three-letter call sign assignment (plus FM or TV or LP suffixes, if used).

(g) Subject to the foregoing limitations, applicants may request call signs of their choice if the combination is available. Objections to the assignment of requested call signs will not be entertained at the FCC. However, this does not hamper any party from asserting such rights as it may have under private law in some other forum. Should it be determined by an appropriate forum that a station should not utilize a particular call sign, the initial assignment of a call sign will not serve as a bar to the making of a different assignment. (Added 83-573, 1/20/84)

(h) Call signs are assigned on a "first-come-first-served" basis. Receipt by the FCC of a request for an available call sign blocks the acceptance of competing requests until the first received request is processed to completion. In the case of requests for the same call sign being received on the same date at the FCC, the assignment (if otherwise grantable) will be made to the station having the longest continuous record of broadcasting operation under substantially unchanged ownership and control. However, involuntary and *pro forma* assignments ~~and transfers~~ will not be taken into account in determining priority. If a low-power TV operator and an AM, FM or full-power TV operator apply for the same call sign on the same date at the FCC, the AM, FM or full-power TV operator will prevail.

NOTE: The provisions of paragraph (h) of this section shall not apply to a licensee requesting a transfer to another frequency where the existing and new facilities serve substantially the same area (*i.e.*, where at least one of the stations serves both communities of license).

[Next Page is No. 714.1]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(i) Stations in different broadcast services (or operating jointly in the 535-1605 kHz band and in the 1605-1705 kHz band) which are under common control may request that their call signs be conformed by the assignment of the same basic call sign if that call sign is not being used by a non-commonly owned station. For the purposes of this paragraph, 50% or greater common ownership shall constitute a prima facie showing of common control.

(j) The provisions of this section shall not apply to International broadcast stations, to stations authorized under Part 74 of the rules (except as provided in § 74.783 of this chapter), nor to FM or TV stations seeking to modify an existing call sign only to the extent of adding or deleting an "—FM" or "—TV" suffix. The latter additions and deletions may be effective upon notification to the Commission. (Revised 94-120, 8/19/94)

(k) Unless subject to a pending transfer or assignment application, a change in call sign assignment will be made effective on the date specified in the telegram authorizing the change. In this regard, the applicant may include with its application a request for a specific effective date to take place within 45 days of the submission of its application for a call sign. Postponement of the effective date will be granted only in response to a timely request and for only the most compelling reasons. (Added 83-573, 1/20/84)

(l) Four-letter combinations commencing with "W" or "K" which are assigned as call signs to ships or to other radio services are not available for assignment to broadcast stations, with or without the "—FM" or "—TV" suffix. (Added 83-573, 1/20/84)

(m) Users of nonlicensed, low-power devices operating under Part 15 of the FCC rules may use whatever identification is currently desired, so long as propriety is observed and no confusion results with a station for which the FCC issues a license. (Added 83-573, 1/20/84)

(n) Where a requested call sign, without the "—FM," "—TV" or "—LP" suffix, would conform to the call sign of any other non-commonly owned station(s) operating in a different service, the applicant must obtain and submit with the application for the call sign the written consent of the licensee(s) of such station(s). (Revised 94-120, 8/19/94)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.3555 MULTIPLE OWNERSHIP.

(a) (1) RADIO CONTOUR OVERLAP RULE.

No license for an AM or FM broadcasting station shall be granted to any party (including all parties under common control) if the grant of such license will result in overlap of the principal community contour of that station and the principal community contour of any other broadcasting station directly or indirectly owned, operated, or controlled by the same party, except that such license may be granted in connection with a transfer or assignment from an existing party with such interests, or in the following circumstances: (Added 9/16/92, 92-361)

- (i) In ~~a~~ radio markets with ~~14 or fewer~~ 45 or more commercial radio stations, a party may own, operate, or control up to ~~3~~ 8 commercial radio stations, not more than ~~2~~ 5 of which are in the same service (AM or FM); ~~provided that the owned stations, if other than a single AM and FM station combination, represent less than 50 percent of the stations in the market.~~
- (ii) In ~~a~~ radio markets with between 30 and 44 (inclusive) ~~15 or more~~ commercial radio stations, a party may own, operate, or control up to ~~2~~ 7 AM and ~~2~~ 2 FM commercial radio stations, not more than 4 of which are in the same service (AM or FM); provided, however, that evidence that grant of any application will result in a combined audience share exceeding 25 percent will be considered *prima facie* inconsistent with the public interest.

~~Note to paragraph (a)(1)(ii):~~

~~When evaluating audience share evidence submitted under § 73.3555(a)(1)(ii), the Commission will consider data that eliminates statistical anomalies, provides a better focused survey area or includes revenue data or other relevant information. Where applicants certify that they do not have readily available audience share data, they may substitute other information that can serve as a proxy for such data. See Memorandum Opinion and Order in MM Docket No. 91-140, 7 FCC Red 6387 (1992), 57 FR 42701 (Sept. 16, 1992).~~

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (iii) In a radio market with between 15 and 29 (inclusive) commercial radio stations, a party may own, operate, or control up to 6 commercial radio stations, not more than 4 of which are in the same service (AM or FM); and
 - (iv) In a radio market with 14 or fewer commercial radio stations, a party may own, operate, or control up to 5 commercial radio stations, not more than 3 of which are in the same service (AM or FM), except that a party may not own, operate, or control more than 50 percent of the stations in such market.
- (2) (iii) Overlap between two stations in different services is permissible if neither of those two stations overlaps a third station in the same service.
- (3) ~~(2)~~ (i) Where the principal community contours of two radio stations overlap and a party (including all parties under common control) with an attributable ownership interest in one such station brokers more than 15 percent of the broadcast time per week of the other such station, that party shall be treated as if it has an interest in the brokered station subject to the limitations set forth in paragraph (a)(1) ~~and (e)~~ of this section. This limitation shall apply regardless of the source of the brokered programming supplied by the party to the brokered station.
- (ii) Every time brokerage agreement of the type described in paragraph (a)~~(2)~~(3)(i) of this section shall be undertaken only pursuant to a signed written agreement that shall contain a certification by the licensee or permittee of the brokered station verifying, that it maintains ultimate control over the station's facilities, including specifically control over station finances, personnel and programming, and by the brokering station that the agreement complies with the provisions of paragraphs (a)~~(1)~~ ~~and (e)(1)~~ of this section.

[Next Page is No. 715]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

~~(iii) Any party operating in conflict with the requirements of paragraph (a)(2)(ii) of this section on September 16, 1992 shall come into compliance within one year thereafter.~~

(4) ~~(3)~~ For purposes of this paragraph (a):

- (i) The "principal community contour" for AM stations is the predicted or measured 5 mV/m groundwave contour computed in accordance with § 73.183 or § 73.186 and for FM stations is the predicted 3.16 mV/m contour computed in accordance with § 73.313. (Added 92-361, 9/16/92)
- (ii) The number of stations in a radio market is the number of commercial stations whose principal community contours overlap, in whole or in part, with the principal community contours of the stations in question (i.e., the station for which an authorization is sought and any station in the same service that would be commonly owned whose principal community contour overlaps the principal community contour of that station). In addition, if the area of overlap between the stations in question is overlapped by the principal community contour of a commonly owned station or stations in a different service (AM or FM), the number of stations in the market includes stations whose principal community contours overlap the principal community contours of such commonly owned station or stations in a different service.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(iii)

~~A station's "audience share" is the average number of persons age 12 or older on an average quarter-hour basis, Monday-Sunday, 6 a.m. - midnight, who listen to the station expressed as a percentage of the average number of persons listening to AM and FM stations in that radio metro market or a recognized equivalent, in which a majority of the overlap between the same service stations involved in the transaction takes place. The "combined audience share" is the total audience share of all AM or FM stations that would be under common ownership or control following proposed acquisition. In situations where the majority of the overlap between the same service stations does not lie in a single metro market, the relevant audience share data is the data for all counties that are within the principal community contours of the mutually overlapping stations proposed for common ownership, in whole or in part, weighted based on the listening population, age 12 and older, and totalled to determine the average audience share. Audience share shall be calculated by using the most recent published audience share data available at the time that the application is filed, unless an alternative showing is submitted pursuant to the Note following 47 CFR 73.3555(a)(1)(ii).~~

[Next Page is No. 716.1]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(iii) (iv) "Time brokerage" is the sale by a licensee of discrete blocks of time to a "broker" that supplies the programming to fill that time and sells the commercial spot announcements in it.

(b) TELEVISION CONTOUR OVERLAP (DUOPOLY) RULE.

No license for a TV broadcast station shall be granted to any party (including all parties under common control) if the grant of such license will result in overlap of the Grade B contour of that station (computed in accordance with § 73.684) and the Grade B contour of any other TV broadcast station directly or indirectly owned, operated, or controlled by the same party. (Revised 91-140, 8/1/92)

(c) ONE-TO-A-MARKET OWNERSHIP RULE.

No license for an AM, FM or TV broadcast station shall be granted to any party (including all parties under common control) if such party directly or indirectly owns, operates or controls one or more such broadcast stations and the grant of such license will result in: (Revised 91-140, 8/1/92)

- (1) The predicted or measured 2 mV/m groundwave contour of an existing or proposed AM station, computed in accordance with § 73.183 or § 73.186, encompassing the entire community of license of an existing or proposed TV broadcast station(s), or the Grade A contour(s) of the TV broadcast station(s), computed in accordance with § 73.684, encompassing the entire community of license of the AM station; or (Added 1/5/95, 94-267)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (2) The predicted 1 mV/m contour of an existing or proposed FM station, computed in accordance with § 73.313, encompassing the entire community of license of an existing or proposed TV broadcast station(s) or the Grade A contour(s) of the TV broadcast station(s), computed in accordance with § 73.684, encompassing the entire community of license of the FM station. (Revised 91-140, 8/1/92)

(d) **DAILY NEWSPAPER CROSS-OWNERSHIP RULE.**

No license for an AM, FM or TV broadcast station shall be granted to any party (including all parties under common control) if such party directly or indirectly owns, operates or controls a daily newspaper and the grant of such license will result in:(Revised 91-140, 8/1/92)

- (1) The predicted or measured 2 mV/m contour of an AM station, computed in accordance with § 73.183 or § 73.186, encompassing the entire community in which such newspaper is published; or (Revised 91-140, 8/1/92)
- (2) The predicted 1 mV/m contour for an FM station, computed in accordance with § 73.313, encompassing the entire community in which such newspaper is published; or (Revised 91-140, 8/1/92)
- (3) The Grade A contour of a TV station, computed in accordance with § 73.684, encompassing the entire community in which such newspaper is published. (Revised DA94-1013, 9/26/94)

[Next Page is No. 716.2a]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(e) (1) **NATIONAL TELEVISION MULTIPLE OWNERSHIP RULE.**

No license for a commercial TV broadcast station shall be granted, transferred or assigned to any party (including all parties under common control) if the grant, transfer or assignment of such license would result in such party or any of its stockholders, partners, members, officers or directors, directly or indirectly, owning, operating or controlling, or having a cognizable interest in TV stations which have an aggregate national audience reach exceeding thirty-five (35) percent.

(2) For purposes of this paragraph (e):

(i) **National audience reach** means the total number of television households in the Arbitron Area of Dominant Influence (ADI) markets in which the relevant stations are located divided by the total national television households as measured by ADI data at the time of a grant, transfer or assignment of a license. For purposes of making this calculation, UHF television stations shall be attributed with 50 percent of the television households in their ADI market. Where the relevant application forms require a showing with respect to audience reach and the application relates to an area where Arbitron ADI market data are unavailable, then the applicant shall make a showing as to the number of television households in its market. Upon such a showing, the Commission shall make a determination as to the appropriate audience reach to be attributed to the applicant.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (ii) **TV broadcast station or TV station** excludes stations which are primarily satellite operations.
- (iii) **Minority-controlled** means more than 50 percent owned by one or more members of a minority group.
- (iv) **Minority** means Black, Hispanic, American Indian, Alaska Native, Asian and Pacific Islander.
- (v) **Small business** means an individual or business entity which, at the time of application to the Commission, had, including all affiliated entities under common control, annual revenues of less than \$500,000 and assets of less than \$1,000,000.

(f) This section is not applicable to noncommercial educational FM and noncommercial educational TV stations. (Added 84-115, 6/6/84)

Note 1: The word "control" as used herein is not limited to majority stock ownership, but includes actual working control in whatever manner exercised. (Added 84-115, 6/6/84)

Note 2: In applying the provisions of this section, ownership and other interests in broadcast licensees, cable television systems and daily newspapers will be attributed to their holders and deemed cognizable pursuant to the following criteria: (Added 84-115, 6/6/84)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (a) Except as otherwise provided herein, partnership and direct ownership interests and any voting stock interest amounting to 5% or more of the outstanding voting stock of a corporate broadcast licensee, cable television system or daily newspaper will be cognizable; (Added 84-115, 6/6/84)
- (b) No minority voting stock interest will be cognizable if there is a single holder of more than 50% of the outstanding voting stock of the corporate broadcast licensee, cable television system or daily newspaper in which the minority interest is held; (Added 84-115, 6/6/84)
- (c) Investment companies, as defined in 15 U.S.C. 80a-3, insurance companies and banks holding stock through their trust departments in trust accounts will be considered to have a cognizable interest only if they hold 10% or more of the outstanding voting stock of a corporate broadcast licensee, cable television system or daily newspaper, or if any of the officers or directors of the broadcast licensee, cable television system or daily newspaper are representatives of the investment company, insurance company or bank concerned. Holdings by a bank or insurance company will be aggregated if the bank or insurance company has any right to determine how the stock will be voted. Holdings by investment companies will be aggregated if under common management. (Added 84-115, 6/6/84)
- (d) Attribution of ownership interests in a broadcast licensee, cable television system or daily newspaper that are held indirectly by any party through one or more intervening corporations will be determined by successive multiplication of the ownership percentages for each link in the vertical ownership chain and application of the relevant attribution benchmark to the resulting product, except that wherever the ownership percentage for any link in the chain exceeds 50%, it shall not be included for purposes of this multiplication. [For example, if A owns 10% of company X, which owns 60% of company Y, which owns 25% of "Licensee", then X's interest in "Licensee" would be 25% (the same as Y's interest since X's interest in Y exceeds 50%), and A's interest in "Licensee" would be 2.5% (0.1 x 0.25). Under the 5% attribution benchmark, X's interest in "Licensee" would be cognizable, while A's interest would not be cognizable.] (Added 84-115, 6/6/84)
- (e) Voting stock interests held in trust shall be attributed to any person who holds or shares the power to vote such stock, to any person who has the sole power to sell such stock, and to any person who has the right to revoke the trust at will or to replace the trustee at will. If the trustee has a familial, personal or extra-trust business relationship to the grantor or the beneficiary, the grantor or beneficiary, as appropriate, will be attributed with the stock interests held in trust. An otherwise qualified trust will be ineffective to insulate the grantor or beneficiary from attribution with the trust's assets unless all voting stock interests held by the grantor or beneficiary in the relevant broadcast licensee, cable television system or daily newspaper are subject to said trust. (Added 84-115, 6/6/84)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (f) Holders of non-voting stock shall not be attributed an interest in the issuing entity. Holders of debt and instruments such as warrants, convertible debentures, options or other non-voting interests with rights of conversion to voting interests shall not be attributed unless and until conversion is affected. (Added 84-115, 6/6/84)
- (g) (1) A limited partnership interest shall be attributed to a limited partner unless that partner is not materially involved, directly or indirectly in the management or operation of the media-related activities of the partnership and the licensee or system so certifies. (Added 85-252, 7/31/85)
- (2) In order for a licensee or system to make the certification set forth in paragraph ~~(a)~~ (g)(1) of this section, it must verify that the partnership agreement or certificate of limited partnership, with respect to the particular limited partner exempt from attribution, establishes that the exempt limited partner has no material involvement, directly or indirectly, in the management or operation of the media activities of the partnership. The criteria which would ~~assure~~ assume adequate insulation for purposes of this certification are described in the MEMORANDUM OPINION AND ORDER in MM Docket No. 83-46, FCC 85-252 (released June 25, 1985), as modified on reconsideration in the MEMORANDUM OPINION AND ORDER in MM Docket No. 83-46, FCC 86-410 (released November 28, 1986). Irrespective of the terms of the certificate of limited partnership or partnership agreement, however, no such certification shall be made if the individual or entity making the certification has actual knowledge of any material involvement of the limited partners in the management or operation of the media-related businesses of the partnership.

[Next Page is No. 716.3]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (h) Officers and directors of a broadcast licensee, cable television system or daily newspaper are considered to have a cognizable interest in the entity with which they are so associated. If any such entity engages in businesses in addition to its primary business of broadcasting, cable television service or newspaper publication, it may request the Commission to waive attribution for any officer or director whose duties and responsibilities are wholly unrelated to its primary business. The officers and directors of a parent company of a broadcast licensee, cable television system or daily newspaper, with an attributable interest in any such subsidiary entity, shall be deemed to have a cognizable interest in the subsidiary unless the duties and responsibilities of the officer or director involved are wholly unrelated to the broadcast licensee, cable television system or daily newspaper subsidiary, and a statement properly documenting this fact is submitted to the Commission. [This statement may be included on the appropriate Ownership Report]. The officers and directors of a sister corporation of a broadcast licensee, cable television system or daily newspaper shall not be attributed with ownership of these entities by virtue of such status. (Added 84-115, 6/6/84)
- (i) Discrete ownership interests will be aggregated in determining whether or not an interest is cognizable under this section. An individual or entity will be deemed to have a cognizable investment if:
- (1) The sum of the interests held by or through "passive investors" is equal to or exceeds 10 percent; or (Revised 85-252, 7/31/85)
 - (2) ~~t~~The sum of the interests other than those held by or through "passive investors" is equal to or exceeds 5 percent; or
 - (3) ~~t~~The sum of the interests computed under paragraph (i)(1) of this section plus the sum of the interests computed under paragraph (i)(2) of this section is equal to or exceeds 10 percent.

Note 3: In cases where record and beneficial ownership of voting stock is not identical (e.g., bank nominees holding stock as record owners for the benefit of mutual funds, brokerage houses holding stock in street names for the benefit of customers, investment advisors holding stock in their own names for the benefit of clients, and insurance companies holding stock), the party having the right to determine how the stock will be voted will be considered to own it for purposes of these rules. (Added 84-115, 6/6/84)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- Note 4:** Paragraphs (a) through (e) of this section will not be applied so as to require divestiture, by any licensee, of existing facilities, and will not apply to applications for increased power for Class C stations, to applications for assignment of license or transfer of control filed in accordance with § 73.3540(f) or § 73.3541(b), or to applications for assignment of license or transfer of control to heirs or legatees by will or intestacy if no new or increased overlap would be created between commonly owned, operated or controlled broadcast stations in the same service and if no new encompassment of Communities proscribed in paragraphs (c) and (d) of this section as to commonly owned, operated or controlled broadcast stations or daily newspapers would result. Said paragraphs will apply to all applications for new stations, to all other applications for assignment or transfer, and to all applications for major changes in existing stations except major changes that will result in overlap of contours of broadcast stations in the same service with each other no greater than already existing. (The resulting areas of overlap of contours of such broadcast stations with each other in such major change cases may consist partly or entirely of new terrain. However, if the population in the resulting areas substantially exceeds that in the previously existing overlapped areas, the Commission will not grant the application if it finds that to do so would be against the public interest, convenience or necessity.) Commonly owned, operated or controlled broadcast stations with overlapping contours or with community-encompassing contours prohibited by this section may not be assigned or transferred to a single person, group or entity, except as provided above in this note and by § 73.3555(a). If a commonly owned, operated or controlled broadcast station and daily newspaper fall within the encompassing proscription of this section, the station may not be assigned to a single person, group or entity if the newspaper is being simultaneously sold to such single person group or entity.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

NOTE 5: Paragraphs (a) through (e) of this section will not be applied to cases involving television stations ~~which that~~ are "satellite" operations. Such cases will be considered in accordance with the analysis set forth in the *Report and Order* in MM Docket No. 87-8, FCC 91-182 (released July 8, 1991), in order to determine whether common ownership, operation, or control of the stations in question would be in the public interest. An authorized and operating "satellite" television station, the Grade B contour of which overlaps that of a commonly owned, operated, or controlled "non-satellite" parent television broadcast station, or the Grade A contour of which completely encompasses the community of publication of a commonly owned, operated, or controlled daily newspaper, or the community of license of a commonly owned, operated, or controlled AM or FM broadcast station, or the community of license of which is completely encompassed by the 2 mV/m contour of such AM broadcast station or the 1 mV/m contour of such FM broadcast station, may subsequently become a "non-satellite" station under the circumstances described in the aforementioned *Report and Order* in MM Docket No. 87-8. However, such commonly owned, operated, or controlled "non-satellite" television stations and AM or FM stations with the aforementioned community encompassment, may not be transferred or assigned to a single person, group, or entity except as provided in Note 4 of this section. Nor shall any application for assignment or transfer concerning such "non-satellite" stations be granted if the assignment or transfer would be to the same person, group or entity to which the commonly owned, operated, or controlled newspaper is proposed to be transferred, except as provided in Note 4 of this section.

Note 6: For the purposes of this section a daily newspaper is one which is published four or more days per week, which is in the English language and which is circulated generally in the community of publication. A college newspaper is not considered as being circulated generally. (Added 84-115, 6/6/84)

Note 7: The Commission will entertain requests to waive the restrictions of paragraph (c) of this section on a case-by-case basis. The Commission will look favorably upon waiver applications that meet either of the following two standards:

- (1) Those involving radio and television station combinations in the top 25 television markets where there will be at least 30 separately owned, operated and controlled broadcast licensees after the proposed combination, as determined by counting television licensees in the relevant ADI television market and radio licensees in the relevant television metropolitan market;

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (2) Those involving "failed" broadcast stations that have not been operated for a substantial period of time, *e.g.*, four months, or that are involved in bankruptcy proceedings. For the purposes of determining the top 25 ADI television markets, the relevant ADI television market, and the relevant television metropolitan market for each prospective combination, we will use the most recent *Arbitron Ratings Television ADI Market Guide*. We will determine that number of radio stations in the relevant television metropolitan market and the number of television licensees within the relevant ADI television market based on the most recent Commission ownership records.

Other waiver requests will be evaluated on a more rigorous case-by-case basis, as set forth in the *Second Report and Order* in MM Docket No. 87-7, FCC 88-407, released February 23, 1989, and *Memorandum Opinion and Order* in MM Docket No. 87-7, FCC 89-256, released August 4, 1989.

Note 8: Paragraph (a)(1) of this section will not apply to an application for an AM station license in the 535-1605 kHz band where grant of such application will result in the overlap of 5 mV/m groundwave contours of the proposed station and that of another AM station in the 535-1605 kHz band that is commonly owned, operated or controlled if the applicant shows that a significant reduction in interference to adjacent or co-channel stations would accompany such common ownership. Such AM overlap cases will be considered on a case-by-case basis to determine whether common ownership, operation or control of the stations in question would be in the public interest. Applicants in such cases must submit a contingent application ~~for~~ of the major or minor facilities change needed to achieve the interference reduction along with the application which seeks to create the 5 mV/m overlap situation.

Note 9: Paragraph (a)(1) of this section will not apply to an application for an AM station license in the 1605-1705 kHz band where grant of such application will result in the overlap of the 5 mV/m groundwave contours of the proposed station and that of another AM station in the 535-1605 kHz band that is commonly owned, operated or controlled. Paragraphs (d)(1)(i) and (d)(1)(ii) of this section will not apply to an application for an AM station license in the 1605-1705 kHz band by an entity that owns, operates, controls or has a cognizable interest in AM radio stations in the 535-1605 kHz band. (Added 91-303, 4/19/92)

[Next Page is No. 716.6a]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

Note 10: Authority for joint ownership granted pursuant to Note 9 will expire at 3 a.m. local time on the fifth anniversary ~~of~~ for the date of issuance of a construction permit for an AM radio station in the 1605-1705 kHz band.

73.3556 DUPLICATION OF PROGRAMMING ON COMMONLY OWNED OR TIME BROKERED STATIONS.

(a) No commercial AM or FM radio station shall operate so as to devote more than 25 percent of the total hours in its average broadcast week to programs that duplicate those of any station in the same service (AM or FM) which is commonly owned or with which it has a time brokerage agreement if the principal community contours (predicted or measured 5 mV/m groundwave for AM stations and predicted 3.16 mV/m for FM stations) of the stations overlap and the overlap constitutes more than 50 percent of the total community contour service area of either station. (Revised 9/16/92, 92-361)

(b) For purposes of this section, duplication means the broadcasting of identical programs within any 24 hour period. (Revised 91-140, 8/1/92)

(c) Any party engaged in a time brokerage arrangement which conflicts with the requirements of paragraph (a) of this section on September 16, 1992, shall bring that arrangement into compliance within one year thereafter. (Added 9/16/94, 92-361)

73.3561 STAFF CONSIDERATION OF APPLICATIONS REQUIRING COMMISSION ACTION.

Upon acceptance of an application, the complete file is reviewed by the staff and, except where the application is acted upon by the staff pursuant to delegation of authority, a report containing the recommendations of the staff and any other documents required is prepared and placed on the Commission's agenda. (Added 79-371, 7/9/79)

[Next Page is No. 716.7]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

**73.3562 STAFF CONSIDERATION OF APPLICATIONS NOT
REQUIRING ACTION BY THE COMMISSION.**

Those applications which do not require action by the Commission but which, pursuant to the delegations of authority set forth in Subpart B of Part 0, may be acted upon the Chief, Mass Media Bureau, are forwarded to the Mass Media Bureau for necessary action. If the application is granted, the formal authorization is issued. In any case where it is recommended that the application be set for hearing, where a novel question of policy is presented, or where the Chief, Mass Media Bureau desires instructions from the Commission, the matter is placed on the Commission agenda. (Edit. Amdt. 4/3/84)

73.3564 ACCEPTANCE OF APPLICATIONS.

(a) Applications tendered for filing are dated upon receipt and then forwarded to the Mass Media Bureau, where an administrative examination is made to ascertain whether the applications are complete. Except for low power TV, TV translator, TV booster and non-reserved band FM (except for Class D) applications, those found to be complete or substantially complete are accepted for filing and are given file numbers. In the case of minor defects as to completeness, the applicant will be required to supply the missing or correct information. Applications that are not substantially complete will be returned to the applicant. In the case of non-reserved band FM applications received on or after August 7, 1992, applications will be placed on public notice if they meet the following two-tiered minimum filing requirement prior to close of the filing window in window proceedings and as initially filed in first come/first served proceedings:

- (1) The application must include:
 - (i) Applicant's name and address,
 - (ii) Applicant's original signature,
 - (iii) Principal community,
 - (iv) Channel or frequency,
 - (v) Class of station, and
 - (vi) Transmitter site coordinates; and

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (2) The application must not omit more than 3 of the second tier items specified in appendix C, Report and Order, MM Docket No. 91-347, ~~92-328~~ 7 FCC Rcd 5074, 5084-82 (1992). ~~Applicants~~ Applications found not to meet minimum filing requirements will be returned to the applicant. Applications found to meet minimum filing requirements but that contain deficiencies in tender and/or acceptance information shall be given an opportunity for corrective amendment pursuant to § 73.3522. Applications found to be substantially complete and in accordance with the Commission's core legal and technical requirements will be accepted for filing. Applications with uncorrected tender and/or acceptance defects remaining after the opportunity for corrective amendment will be dismissed with no further opportunity for corrective amendment. In the case of low power TV, TV translator and TV booster applications, those found to be substantially complete will be listed on a Commission public notice as tendered and sufficient will be accepted for filing and given file numbers. Those that are not substantially complete will be returned to the applicant. If it is determined that a low power TV, TV translator or TV booster application is substantially complete but contains some defect(s) or omission(s), a deficiency letter will be issued affording the applicant 30 days to correct the defect. If the defect is not corrected within 30 days of the date on the deficiency letter, the application will be returned with no further opportunity to amend. Low power TV, TV translator, and TV booster application that are not complete and sufficient will be returned to the applicant.

NOTE: ~~For non-reserved band FM applications received prior to August 7, 1992 applications with deficiencies in tender and/or acceptance information will be returned to the applicant without an opportunity for corrective amendment. See 50 FR 199356 [May 13, 1985].~~

(b) Acceptance of an application for filing merely means that it has been the subject of a preliminary review by the FCC's administrative staff as to completeness. Such acceptance will not preclude the subsequent dismissal of the application if it is found to be patently not in accordance with the FCC's rules. (Added 79-371, 7/9/79)

(c) At regular intervals, the FCC will issue a Public Notice listing all applications and major amendments thereto which have been accepted for filing, except for low power TV, TV translator, TV booster, and non-reserved band FM stations. Pursuant to §§ 73.3571(c), 73.3572(c) and 73.3573(d) such notice shall establish a cut-off date (not less than 30 days from the date of issuance) for the filing of mutually exclusive applications and petitions to deny. However, no application will be accepted for filing unless certification of compliance with the local notice requirements of § 73.3580(h) has been made in the tendered application. (Revised 87-244, 9/21/87)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(d) New and major change applications for non-reserved band FM stations (except for Class D stations) and for low power TV and TV translator stations will be accepted only on date(s) specified by the Commission. Low power TV and TV translator station filing period(s) will be designated by the Commission in a Public Notice. No more than five (5) applications for new low power TV or TV translator stations may be tendered for filing by any applicant, or by any individual or entity having an interest of one (1) percent or greater in any applicant(s) in a single filing period. This restriction does not apply to applications for major or minor changes in low power TV or TV translator stations as defined by § 73.3572. Non-reserved band FM facilities and major change applications will have filing dates designated by the Commission in the following manner: (Revised 87-44, 4/13/87)

- (1) For all vacant non-reserved band FM allocations listed on the FM Table of Allotments, § 73.202, as of March 14, 1985, a one-time filing period or "window" will open for 30 days, beginning on the 31st day after the date of publication of the REPORT AND ORDER in MM Docket No. 84-750 in the FEDERAL REGISTER and will close on the 60th day after such publication. (This filing window does not apply to the 689 FM channels added to the FM Table of Allotments by the Commission's decision in MM Docket No. 84-231). (Added 84-125, 6/12/85)
- (2) The 689 FM allocations added to the FM Table of Allotments by MM Docket 84-231 will be subject to a series of windows. The Audio Services Division of the Mass Media Bureau will establish, by Public Notice, the window filing dates for this group of allotments. (Added 84-125, 6/12/85)
- (3) Each REPORT AND ORDER specifying a new non-reserved FM band allocation will identify the window filing period which will begin upon the effective date of that ORDER and continue for at least 30 days. (Added 84-125, 6/12/85)
- (4) Where no applications are tendered during a window filing period, applications may be tendered any time after the window closes. These applications will be processed on a "first come/first serve" basis and will be treated as simultaneously filed if filed on the same day. Any applications received after the filing of a lead applicant will be placed in a queue, according to filing date, behind the lead applicant. (Added 84-125, 6/12/85)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (5) If a non-reserved band FM channel allotment is vacant after the grant of a construction permit becomes final, because of a lapsed construction permit or for any other reason, the FCC will, by Public Notice, announce a subsequent filing window for the acceptance of new applications for such channels. (Revised 85-125, 6/12/85)
- (6) However, no application will be accepted for tender unless certification of compliance with the local notice requirements of § 73.3580(h) has been made in the tendered application. (Revised 85-125, 6/12/85)
- (e) Applications for operation in the 1605-1705 kHz band will be accepted only if filed pursuant to the terms of § 73.30(b). (Added 91-303, 4/19/92)

73.3566 DEFECTIVE APPLICATIONS.

- (a) Applications which are determined to be patently not in accordance with the FCC rules, regulations, or other requirements, unless accompanied by an appropriate request for waiver, will be considered defective and will not be accepted for filing or if inadvertently accepted for filing will be dismissed. Requests for waiver shall show the nature of the waiver or exception desired and shall set forth the reasons in support thereof. (Added 79-371, 7/9/79)
- (b) If an applicant is requested by the FCC to file any additional documents or information not included in the prescribed application form, a failure to comply with such request will be deemed to render the application defective, and such application will be dismissed. (Added 79-371, 7/9/79)

[Next Page is No. 717]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.3568 DISMISSAL OF APPLICATIONS.

(a) Subject to the provisions of §73.3523 (Dismissal of applications in renewal proceedings) and §73.3525 (Agreements for removing application conflicts), any application may, upon request of the applicant be dismissed without prejudice as a matter of right prior to the designation of such application for hearing. An applicant's request for the return of an application that has been accepted for filing will be regarded as a request for dismissal.

(b) Failure to prosecute an application, or failure to respond to official correspondence or request for additional information, will be cause for dismissal. Subject to the provisions of §73.3525, such dismissal will be without prejudice where an application has not yet been designated for hearing, but may be made with prejudice after designation for hearing. (Added 79-371, 7/9/79)

(c) Subject to the provisions of §73.3523 (Dismissal of applications in renewal proceedings) and §73.3525 (Agreements for removing application conflicts), requests to dismiss an application without prejudice after it has been designated for hearing will be considered only upon written petition properly served upon all parties of record ~~and, where applicable, compliance with the provisions of §73.3525~~. Such requests shall be granted only upon a showing that the request is based on circumstances wholly beyond the applicant's control which preclude further prosecution of his application.

73.3569 [RESERVED] [Dkt. No. 20642, 8/1/80]

[Next Page is No. 725]

- 717 -

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.3570 [REDESIGNATED AS § 73.23].

73.3571 PROCESSING OF AM BROADCAST STATION APPLICATIONS.

(a) Applications for AM broadcast facilities are divided into ~~two~~ three groups.

- (1) In the first group are applications for new stations or for major changes in the facilities of authorized stations. A major change is any increase in power except where accompanied by a complimentary reduction of antenna efficiency which leads to the same amount, or less, radiation in all directions (in the horizontal and vertical planes when skywave propagation is involved, and in the horizontal plane only for daytime considerations), relative to the presently authorized radiation levels, or any change in frequency, hours of operation, or community of license. However, the FCC may, without 15 days after the acceptance for filing of any other application for modification of facilities, advise the applicant that such application is considered to be one for a major change and therefore is subject to the provisions of §§ 73.3580 and 1.1111 of this chapter pertaining to major changes.
- (2) The second group consists of applications for licenses and all other changes in the facilities of authorized stations. (Added 79-371, 7/9/79)
- (3) The third group consists of applications for operation in the 1605-1705 kHz band which are filed subsequent to Commission notification that allotments have been awarded to petitioners under the procedure specified in § 73.30.

(b) If an application is amended so as to effect a major change as defined in paragraph (a)(1) of this section or so as to result in a situation where the original party or parties to the application do not retain more than 50% ownership interest in the application as originally filed, § 73.3580 will apply to such amended application. (Revised 84-298, 7/1/84)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(c) Applications for new stations or for major changes in the facilities of authorized stations are processed as nearly as possible in the order in which they are filed. Such applications will be placed in the processing line in numerical sequence, and are drawn by the staff for study, the lowest file number first. Thus, the file number determines the order in which the staff's work is begun on a particular application or group of conflicting applications. In order that those applications which are entitled to be grouped for processing may be fixed prior to the time processing of the earliest filed application is begun, the FCC will periodically release a Public Notice listing applications which have been accepted for filing and announcing a date (not less than 30 days after release) on which the listed applications will be considered available and ready for processing and by which all mutually exclusive applications and/or petitions to deny the listed applications must be filed. (Revised 81-276, 7/13/81)

(1) In order to grant a major or minor change application made contingent upon the grant of another licensee's request for a facility modification, the Commission will not consider mutually exclusive application by other parties that would not protect the currently authorized facilities of the contingent applicants. Such major change applications remain, however, subject to the provisions of §§73.3580 and 1.1111. The Commission shall grant contingent requests for construction permits for station modifications only upon a finding that such action will promote the public interest, convenience and necessity.

~~(1)~~(2) In addition to announcing the acceptance of mutually exclusive applications and establishing a date for the filing of petitions to deny such applications, the public notice referred to in paragraph (c) of this section will also announce the date on which all mutually exclusive applicants (including the previously accepted lead applicant) will be required to pay the hearing fee established in part 1 of these rules, 47 CFR 1.1104(1)(c) of this chapter. The date for fee payment shall be at least 30 days after the date established for petitions to deny.

~~(2)~~(3) Whenever the public notice announces the acceptance of an application that is mutually exclusive with a renewal application, it shall also announce that the mutually exclusive applicants and the renewal applicant will be required to pay the hearing fee on the date established in the public notice.

[Next Page is No. 733]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(d) Applications proposing to increase the power of an AM station are subject to the following requirements:

- ~~(1) In order to be acceptable for filing, any application which does not involve a change in site and which is filed before June 3, 1988, must propose at least a 50% increase in the station's nominal power. However, applications proposing at least a 20% increase and which are in conflict with an application proposing a 50% increase are acceptable for filing. (Revised 85-244, 6/3/85)~~
- (1) (2) In order to be acceptable for filing, any application which does not involve a change in site ~~and which is filed on or after June 3, 1988,~~ must propose at least a 20% increase in the station's nominal power.
- (2) (3) Applications involving a change in site are not subject to the requirements in paragraphs (d)(1) ~~or (2)~~ of this section ~~and may include a request for an increase in power of any amount.~~
- (3) Applications for nighttime power increases for Class D stations are not subject to the requirements of this section and will be processed as minor changes.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(e) (f) Applications other than those for new stations or for major changes in the facilities of authorized stations are not placed on the processing line but are processed as nearly as possible in the order in which they are filed.

(f) (g) Applications for change of license to change hours of operation of a Class ~~H~~ C station, to decrease hours of operation of any other class of station, or to change station location involving no change in transmitter site will be considered without reference to the processing line.

(g) (h) If, upon examination, the FCC finds that the public interest, convenience and necessity will be served by the granting of an application, the same will be granted. If the FCC is unable to make such a finding and it appears that a hearing may be required, the procedure set forth in §73.3593 will be followed.

(h) (i) When an application which has been designated for hearing has been removed from the hearing docket, the application will be returned to its proper position (as determined by the file number) in the processing line. Whether or not a new file number will be assigned will be determined pursuant to paragraph ~~(j)~~(i) of this section, after the application has been removed from the hearing docket.

(i) (j) (1) A new file number will be assigned to an application for a new station, or for major changes in the facilities of an authorized station, when it is amended to change frequency, to increase power, to increase hours of operation, or to change station location. Any other amendment modifying the engineering proposal, except an amendment ~~regarding~~ ~~respecting~~ the type of equipment specified, will also result in the assignment of a new file number unless such amendment is accompanied by a complete engineering study showing that the amendments would not involve new or increased interference problems with existing stations or other applications pending at the time the amendment is filed. If, after submission and acceptance of such an engineering amendment, subsequent examination indicates new or increased interference problems within either existing stations or other applications pending at the time the amendment was received at the FCC, the application will then be assigned a new file number and placed in the processing line according to the numerical sequence of the new file number.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (2) A new file number will be assigned where an application for a new station is amended (whether by a single amendment or by a series of amendments) so as to result in a situation where the original party or parties to the application do not retain more than 50% ownership interest in the application as originally filed, and § 73.3580 will apply to such amended application. (Revised 84-298, 7/1/84)
- (3) Where an amendment to an application would require a new file number pursuant to paragraph (j)(1) or (j)(2) of this section, the applicant will have an opportunity to withdraw the amendment at any time prior to designation for hearing if applicable; and may be afforded, subject to the discretion of the Administrative Law Judge, an opportunity to withdraw the amendment after designation for a hearing. (Revised 90-125, 5/9/90)

(j) When an application is reached for processing, and it is necessary to address a letter to the applicant asking further information, the application will not be processed until the information requested is received, and the application will be placed in the pending file to await the applicant's response. (Revised 91-303, 4/19/92)

(k) When an application is placed in the pending file, the applicant will be notified of the reason for such action. (Revised 91-303, 4/19/92)

73.3572 PROCESSING OF TV BROADCAST, LOW POWER TV, TV TRANSLATOR AND TV BOOSTER STATION APPLICATIONS.

(a) Applications for TV stations are divided into two groups:

- (1) In the first group are applications for new stations or major changes in the facilities of authorized stations. A major change for TV broadcast stations authorized under this part is any change in frequency or community of license which is in accord with a present allotment contained in the Table of Allotments (§ 73.606). Other requests for change in frequency or community of license for TV broadcast stations must first be submitted in the form of a petition for rulemaking to amend the Table of Allotments. In the case of low power TV, TV translator, and TV booster stations authorized under Part 74 of this chapter, a major change is any change in:
 - (i) Frequency (output channel) assignment (does not apply to TV boosters);

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (ii) Transmitting antenna system including the direction of the radiation, directive antenna pattern or transmission line;
 - (iii) Antenna height;
 - (iv) Antenna location exceeding 200 meters; or
 - (v) Authorized operating power.
- (2) However, if the proposed modification of facilities, other than a change in frequency, will not increase the signal range of the low power TV, TV translator or TV booster station in any horizontal direction, the modification will not be considered a major change.
- (i) Provided, that in the case of an authorized low power TV, TV translator or TV booster ~~station~~ which is predicted to cause or receive interference to or from an authorized TV broadcast station pursuant to § 74.705 or ~~interfere~~ interference with broadcast or other services under §§ 74.703 or § 74.709, that an application for a change in output channel, together with technical modifications which are necessary to avoid interference (including a change in antenna location of less than 16.1 km), will not be considered as an application for a major change in those facilities.

[Next Page is No. 736a]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (ii) Provided further, that a low power TV, TV translator or TV booster station authorized on a channel from channel 60 to 69, or which is causing or receiving interference or is predicted to cause or receive interference to or from an authorized DTV station pursuant to § 74.706, or which is located within the distances specified below in paragraph (c) of this section to the coordinates of co-channel DTV authorizations (or allotment table coordinates if there are no authorized facilities at different coordinates), may at any time file a displacement relief application for a change in output channel, together with any technical modifications which are necessary to avoid interference or continue serving the station's protected service area. Such an application will not be considered as an application for a major change in those facilities. Where such an application is mutually exclusive with applications for new low power TV, TV translator or TV booster stations, or with other nondisplacement relief applications for facilities modifications, priority will be afforded to the displacement application(s) to the exclusion of the other applications. ~~the FCC may, within 15 days after the acceptance of any other application for modification of facilities, advise the applicant that such application is considered to be one for a major change and therefore subject to the provisions of §§ 73.3580 and 1.1111 pertaining to major changes.~~
- (iii) (A) The geographic separations to co-channel DTV facilities or allotment reference coordinates, as applicable, within which to qualify for displacement relief are the following:
- (1) Stations on UHF channels: 265 km (162 miles)
 - (2) Stations on VHF channels 2-6: 280 km (171 miles)
 - (3) Stations on VHF channels 7-13: 260 km (159 miles)
- (B) Engineering showings of predicted interference may also be submitted to justify the need for displacement relief.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(iv) Provided further, that the FCC may, within 15 days after acceptance of any other application for modification of facilities, advise the applicant that such application is considered to be one for a major change and therefore subject to the provisions of § 73.3580 of this section and §1.1111 of this chapter pertaining to major changes.

(b) A new file number will be assigned to an application for a new station or for major changes in the facilities of an authorized station, when it is amended so as to effect a major change, as defined in paragraph (a)(1) of this section, or to result in a situation where the original party or parties to the application do not retain more than 50% ownership interest in the application as originally filed and § 73.3580 will apply to such amended application. An application for change in the facilities of any exiting station will continue to carry the same file number even though (pursuant to FCC approval) an assignment of license or transfer of control of such licensee or permittee has taken place, if, upon consummation, the application is amended to reflect the new ownership. (Revised 84-298, 7/1/84)

[Next Page is No. 736.1]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(c) Where an amendment to an application would require a new file number pursuant to paragraph (b) of this section, the applicant will have the opportunity to withdraw the amendment at any time prior to designation for a hearing if applicable; and may be afforded, subject to the discretion of the Administrative Law Judge, an opportunity to withdraw the amendment after designation for a hearing. (Added 90-125 5/9/90)

* (d) Applications for TV stations, other than low power TV, TV translator and TV booster stations, will be processed as nearly as possible in the order in which they are filed. Such applications will be placed in the processing line in numerical sequence, and will be drawn by the staff for study, the lowest file number first. In order that those applications which are entitled to be grouped for processing may be fixed prior to the time processing of the earliest filed application is begun, the FCC will periodically release a Public Notice listing applications which have been accepted for filing and announcing a date (not less than 30 days after issuance) on which the listed applications will be considered available and ready for processing and by which all mutually exclusive applications and petitions to deny the listed applications must be filed.

(e) Except for applications for low power TV, TV translator and TV booster stations, regardless of the number of applications filed for channels in a city or the number of assignments available in that city, those applications which are mutually exclusive, i.e., which request the same channel, will be designated for hearing. All other applications for channels will, if the applicants are duly qualified, receive grants. For example, if channels 6, 13, 47 and 53 have been assigned to City X and there are pending two applications for Channel 6 and one application for each of the remaining channels, the latter three applications will be considered grants without hearing and the two mutually exclusive applications requesting Channel 6 will be designated for hearing. If there are two pending applications for Channel 6 and two applications for Channel 13, separate hearings will be held. (Added 9/21/87)

(1) In addition to announcing the acceptance of mutually exclusive applications and establishing a date for the filing of petitions to deny such applications, the public notice referred to in paragraph (c) of this section will also announce the date on which all mutually exclusive applicants (including the previously accepted lead applicant) will be required to pay the hearing fee established in part 1 of these rules, 47 CFR 1.1104(1)(c) of this chapter. The date for fee payment shall be at least 30 days after the date established for petitions to deny. (Corrected 90-401, 2/13/91)

(2) Whenever the public notice announces the acceptance of an application that is mutually exclusive with a renewal application, it shall also announce that the mutually exclusive applicants and the renewal applicant will be required to pay the hearing fee on the date established in the public notice. (Corrected 90-401, 2/13/91)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(f) Where applications, other than applications for low power TV, TV translator, and TV booster stations, are mutually exclusive because the distance between the respective proposed transmitter sites is contrary to the station separation requirements set forth in §73.610, such applications will be processed and designated for hearing at the time the application with the lower file number is reached for processing. In order to be considered mutually exclusive with a lower file number application, the higher file number application must have been accepted for filing at least one day before the lower file number application has been acted upon by the FCC. (Added 9/21/87)

(g) **PROCESSING OF APPLICATIONS FOR LOW POWER TV AND TV TRANSLATOR STATIONS.**

- (1) Applications for low power TV and TV translator stations will be processed as nearly as possible in the order in which they are filed. Such applications will be placed in the processing line in numerical sequence, and will be drawn by the staff for study, the lowest file number first. The FCC will specify, by Public Notice, a period for filing low power TV or TV translator applications. The filing period will open no less than 30 days after release of the Public Notice and remain open for at least five work days. (Revised 84-492, 2/26/84)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (2) Subsequently, the FCC will release a Public Notice: (i) Establishing a date, time, and place for a public lottery; (ii) accepting for filing mutually exclusive applications which were timely filed during the filing period previously specified by the FCC; (iii) designating the listed mutually exclusive applications for public lottery pursuant to the procedures set forth in §1.1601 *et seq.*; and (iv) describing each applicant's certified preferences and selection probabilities and assigning to each applicant a number block. (It will be the applicant's responsibility to notify the FCC, within 30 days of the release of the Public Notice, of any omissions of applications or clerical or mathematical errors in preferences or probabilities. The FCC will not entertain appeals involving these matters if timely notification to the FCC has not been made.) If necessary, the FCC will release subsequent Public Notices correcting any clerical or mathematical errors and including any previously omitted mutually exclusive applications. The public lottery pursuant to the procedures set forth in §1.1601 *et seq.* will be held no less than 30 days subsequent to the last initially released Public Notice, announcing the lottery. Subsequent to the lottery, the FCC will release a Public Notice announcing the selection of a tentative selectee resulting from the lottery and providing an opportunity for the filing of Petitions to Deny pursuant to the requirements of §73.3584(c). If, upon examination, the FCC finds that the public interest, convenience and necessity will be served by the granting of a tentative selectee's application, the same will be granted. Those applications which, due to the lottery, are no longer mutually exclusive with other applications will be announced in a Public Notice proposing the grant of those applications and providing an opportunity for the filing of Petitions to Deny pursuant to §73.3584(c). Groups of mutually exclusive applicants remaining after a lottery will be designated for lottery. Applications which are not grantable due to mutual exclusivity with the permittee selected by lottery will be dismissed. (Revised 12/26/84)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (3) If, upon examination, the FCC is unable to find that the public interest, convenience and necessity will served by the granting of a lottery tentative selectee's applications, and it appears that a hearing may be required, the procedure set forth in §73.3593 will be followed. No further action will be taken with reference to the other applications in the lottery group from which the tentative selectee was selected until the tentative selectee's qualification to be a permittee are resolved. If the tentative selectee is ultimately found to be unqualified to be a permittee, the procedure set forth in paragraph (f)(2) of this section will be followed. (Added 83-114, 7/13/83)
- (4) The FCC will periodically release a Public Notice accepting for filing and proposing for grant those applications which were timely filed during the filing period specified by the FCC in a Public Notice for filing low power TV or TV translator applications, but which are not mutually exclusive with any other application, and providing an opportunity for the filing of Petitions to Deny pursuant to §73.3584. (Revised 84-492 12/26/84)

NOTE 1: Notwithstanding paragraph (f)(1) and §73.3522(a)(3), applications for low power TV and TV translator stations will be processed within the tiered processing framework as set forth in **Notice on Interim Processing**, 45 FR 62004 (published September 17, 1980), **Order Imposing Freeze**, 46 FR 26062 (published May 11, 1981), and **Report and Order in the Matter of Inquiry into the Future Role of Low power Television Broadcasting and Television Translators in the National Telecommunications System**, 47 FR 21468 (published May 18, 1982).

NOTE 2: Pursuant to §73.3584(c), the Commission may announce, by the Public Notice designating the applications for public lottery, that a Notice of Petition to Deny will be required to be filed no later than 30 days after issuance of the Public Notice.

- (5) TV booster station applications may be filed at any time and will be subject to the following procedures: (Added 87-244 9/21/87)

[Next Page is No. 737]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (i) Subsequent to filing, the FCC will release a Public Notice accepting for filing and proposing for grant those applications which are not mutually exclusive with any other TV translator, low power TV, or TV booster application, and providing for the filing of Petitions to Deny pursuant to §73.3584; (Added 87-244, 9/21/87)
- (ii) Any application received during the filing period for TV translator, low power TV, or TV booster applications with which it is mutually exclusive will be included in the relevant public lottery pursuant to §1.1601 *et seq.*; and (Added 87-244, 7/21/87)
- (iii) Applications received after the filing date for applications with which it is mutually exclusive will be dismissed as an untimely filing. (Added 87-244, 9/21/87)

[Next Page is No. 738.1]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

**73.3573 PROCESSING FM BROADCAST ~~AND FM TRANSLATOR~~
STATION APPLICATIONS.**

(a) Applications for FM broadcast stations are divided into two groups:

- (1) In the first group are applications for new stations or for major changes in the facilities of authorized stations. A major change for FM station authorized under this part is any change in frequency or community of license which is in accord with a present allotment contained in the Table of Allotments (73.202(b)). Other requests for change in frequency or community of license for FM stations must first be submitted in the form of a petition for rule making to amend the Table of Allotments. Applications filed on a first come, first served basis may propose a higher or lower class adjacent, intermediate frequency or co-channel in an application for a new FM broadcast station. A licensee or permittee may seek the higher or lower class adjacent, intermediate frequency or co-channel or the same class adjacent channel of its existing FM broadcast station authorization by filing a minor change application. For noncommercial educational FM stations, a major change is any change in frequency or community of license or any change in power or antenna location or height above average terrain (or combination thereof) which would result in a change of 50% or more in the area within the station's predicted 1 mV/m field strength contour. (A change in area is defined as the sum of the area gained and the area lost as a percentage of the original area). However, the FCC may within 15 days after the acceptance of the application for modification of facilities, advise the applicant that such application is considered to be one for a major change and therefore subject to the provisions of §§ 73.3580 and 1.1111 of this chapter pertaining to major changes.
- (2) The second group consists of applications for licenses and all other changes in the facilities of authorized stations. (Added 79-371, 7/9/79)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(b) A new file number will be assigned to an application for a new station or for major changes in the facilities of an authorized station, when it is amended so as to effect a major change, as defined in paragraph (a)(1) of this section, or result in a situation where the original party or parties to the application do not retain more than 50% ownership interest in the application as originally filed, and § 73.3580 will apply to such amended application. An application for changes in the facilities of any existing station will continue to carry the same file number even though (pursuant to FCC approval) an assignment of license or transfer of control of such licensee or permittee has taken place if, upon consummation, the application is amended to reflect the new ownership. (Revised 84-298, 7/1/84)

(c) Where an amendment to an application would require a new file pursuant to paragraph (b) of this section, the applicant will have the opportunity to withdraw the amendment at any time prior to designation for a hearing if applicable; and may be afforded, subject to the discretion of the Administrative Law Judge, an opportunity to withdraw the amendment after designation for a hearing. (Added 90-125, 5/9/90)

(d) If, upon examination, the FCC finds that the public interest, convenience and necessity will be served by the granting of an application for FM broadcast facilities, the same will be granted. If the FCC is unable to make such a finding and it appears that a hearing may be required, the procedure given in § 73.3593 will be followed.

(e) Applications for reserved band and Class D FM broadcast stations will be processed as nearly as possible in the order in which they are filed. Such applications will be placed in the processing line in numerical sequence, and will be drawn by the staff for study, the lowest file number first. In order that those applications which are entitled to be grouped for processing may be fixed prior to the time processing of the earliest filed application is begun, the FCC will periodically release a Public Notice listing applications which have been accepted for filing and announcing a date (not less than 30 days after publication) on which the listed applications will be considered available and ready for processing and by which all mutually exclusive applications and/or petitions to deny the listed applications must be filed.

(f) Where reserved band plus Class D applications are mutually exclusive because the distance between their respective proposed transmitter sites is contrary to the station separation requirements set forth in § 73.507, such applications will be processed and designated for hearing at the time the application with the lower file number is reached for processing. In order to be considered mutually exclusive with a lower file number application, the higher file number application must have been accepted for filing at least one day before the lower file number application has been acted upon by the FCC.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(g) **PROCESSING NON-RESERVED FM BROADCAST STATION APPLICATIONS.**

- (1) Applications for non-reserved FM broadcast stations will be processed as nearly as possible in the order in which they are tendered. Such applications will be placed in the processing line in numerical sequence, and will be drawn by the staff for study, the lowest file number first. The FCC will specify, pursuant to § 73.3564(d), the filing periods for non-reserved band FM applications. (Added 85-125, 6/12/85)
- (2) All applications received during the appropriate filing period or "window" which are found to be mutually exclusive will be designated for hearing. All other applications will, if the applicants are duly qualified, receive grants. The FCC will periodically release a Public Notice listing applications pending hearings or grant and announcing a date (not less than 30 days after issuance) by which petitions to deny must be filed. (Added 85-125, 6/12/85)
 - (i) In addition to announcing the acceptance of mutually exclusive applications and establishing a date for the filing of petitions to deny such applications, the public notice referred to in paragraph (g)(2) of this section will also announce the date on which all mutually exclusive applicants will be required to pay the hearing fee established in part 1 of these rules, 47 CFR 1.1104(2)(c) of this chapter. The date for fee payment shall be at least 30 days after the date established for petitions to deny.
 - (ii) Whenever the public notice announces the acceptance of an application that is mutually exclusive with a renewal application, it shall also announce that the mutually exclusive applicants and the renewal applicant will be required to pay the hearing fee on the date established in the public notice.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (3) If, after the close of the appropriate window filing period, a non-reserved FM allotment remains vacant, processing for that channel will be on a "first come/first serve" basis with the first acceptable application cutting off the filing rights of subsequent applicants. All applications received on the same day will be treated as simultaneously tendered and, if they are found to be mutually exclusive, will be designated for hearing. Applications received after the tender of a lead application will be grouped, according to filing date, behind the lead application in a queue. The priority rights of the lead applicant, as against all other applicants, are determined by the date of filing but the filing date for subsequent applicants for that channel and community only reserves a place in the queue. The rights of an applicant in a queue ripen only upon a final determination that the lead applicant is unacceptable and if the queue member is reached and found acceptable. The queue will remain behind the lead applicant until a construction permit is finally granted, at which time the queue dissolves. If there is no queue or if no queue member is found acceptable, that allotment remains subject to "first come/first serve" processing. The FCC will periodically release a Public Notice listing those pending hearings or grant and announcing a date (not less than 30 days after issuance) by which petitions to deny must be filed. (Added 85-125, 6/12/85)

(h) Resolving processing conflicts between the reserved and non-reserved bands. The reserved bands include Class D stations. (Added 85-125, 6/12/85)

- (1) Reserved band applicants, applying for a channel on the non-reserved band are subject to the processing procedures in paragraph (f). (Added 85-125, 6/12/85)
- (2) If a reserved band applicant has generated a cut-off list that overlaps a non-reserved band window filing period, the non-reserved band applicant must file within the cut-off if he seeks mutually exclusive status with the reserved band applicant. (Added 85-125, 6/12/85)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (i) In addition to announcing the acceptance of mutually exclusive applications and establishing a date for the filing of petitions to deny such applications, the public notice referred to in paragraph (g)(2) of this section will also announce the date on which all mutually exclusive applicants will be required to pay the hearing fee established in part 1 of these rules, 47 CFR 1.1104(2)(c) of this chapter. The date for fee payment shall be at least 30 days after the date established for petitions to deny.
 - (ii) Whenever the public notice announces the acceptance of an application that is mutually exclusive with a renewal application, it shall also announce that the mutually exclusive applicants and the renewal applicant will be required to pay the hearing fee on the date established in the public notice.
- (3) Following the close of a non-reserved band application filing window, the non-reserved band applicant is subject to the "first-come/first-serve" rules and would lose to a pre-filed reserved band applicant.

[Next Page is No. 739]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

~~NOTE 1:~~ NOTE 2 Processing of applications for new lower power educational FM applications:

Pending the Commission's restudy of the impact of the rule changes pertaining to the allocations of 10-watt and other low power noncommercial educational FM stations, applications for such new stations, or major changes in existing ones, will not be accepted for filing. Exceptions are: (1) In Alaska, applications for new Class D stations or major changes in existing ones are acceptable for filing; and (2) applications for existing Class D stations to change frequency are acceptable for filing. In (2), upon the grant of such application, the station shall become a Class D (secondary) station. (See First Report and Order, Docket 20735, FCC 78-386, 43 FR 25821, and Second Report and Order, Docket 20735, FCC 78-384, 43 FR 39704.) Effective date of this FCC imposed "freeze" was June 15, 1978. Applications which specify facilities of at least 100 watts effective radiated power will be accepted for filing. (Added 79-371, 7/9/79)

~~NOTE 2:~~ NOTE 3: For rules on processing FM translator and booster stations, see Section 74.1233 of this chapter.

73.3574 PROCESSING OF INTERNATIONAL BROADCAST STATION APPLICATIONS.

(a) Applications for International station facilities are divided into two groups: (Added 79-371, 7/9/79)

- (1) In the first group are applications for new stations, or for major changes in the facilities of authorized stations. A major change is any change in or addition to authorized zones or areas of reception, any change in transmitter location other than one in the immediate vicinity of existing antennas of the station, or any change in power, or antenna directivity. However, the FCC may, within 15 days after the acceptance for filing of any other application for modification, advise the applicant that such application is considered to be one for a major change and therefore is subject to §§ 1.1111 and 73.3580 pertaining to major changes. (Added 79-371, 7/9/79)
- (2) The second group consists of applications for licenses and all other changes in the facilities of authorized stations. (Added 79-371, 7/9/79)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(b) If an application is amended so as to effect a major change as defined in paragraph (a)(1) of this section, or so as to result in an assignment or transfer of control which, in the case of an authorized station, would require the filing of an application therefor on FCC Form 314 or 315 (see § 73.3540), § 73.3580 will apply to such amended application. (Added 79-371, 7/9/79)

(c) Applications for International stations will be processed as nearly as possible in the order in which they are filed. (Added 79-371, 7/9/79)

73.3578 AMENDMENTS TO APPLICATIONS FOR RENEWAL, ASSIGNMENT OR TRANSFER OF CONTROL.

(a) Any amendments to an application for renewal of any instrument of authorization shall be considered to be a minor amendment. However, the FCC may, within 15 days after tender for filing of any amendment, advise the applicant that the amendment is considered to be a major amendment and therefore is subject to the provisions of § 73.3580. (Revised 5/20/86)

(b) Any amendment to an application for assignment of construction permit or license, or consent to the transfer of control of a corporation holding such a construction permit or license, shall be considered to be a minor amendment, except that any amendment which seeks a change in the ownership interest of the proposed assignee or transferee which would result in a change in control, or any amendment which would require the filing of FCC Forms 314, 315, or 345 (see § 73.3540), if the changes sought were made in an original application for assignment or transfer of control, shall be considered to be a major amendment. However, the FCC may, within 15 days after the acceptance for filing of any other amendment, advise the applicant that the amendment is considered to be a major amendment and therefore is subject to the provisions of § 73.3580. (Added 79-371, 7/9/79)

[Next Page is No. 740.1]

FEDERAL COMMUNICATIONS COMMISSION

73.3580 LOCAL PUBLIC NOTICE OF FILING OF BROADCAST APPLICATIONS.

(a) All applications for instruments of authorization in the broadcast service (and major amendments thereto, as indicated in §§73.3571, 73.3572, 73.3573, 73.3574 and 73.3578) are subject to the local public notice provisions of this section, except applications for: (Added 79-371, 7/9/79)

- (1) A minor change in the facilities of an authorized station, as indicated in §§73.3571, 73.3572, 73.3573 and 73.3574. (Added 79-371, 7/9/79)
- (2) Consent to an involuntary assignment or transfer or to a voluntary assignment or transfer which does not result in a change of control and which may be applied for on FCC Form 316 pursuant to the provisions of §73.3540(b). (Added 79-371, 7/9/79)

[Next Page No. is 741]

FEDERAL COMMUNICATIONS COMMISSION

- (3) A license under Section 319(c) of the Communications Act or, pending application for or grant of such license, any special or temporary authorization to permit interim operation to facilitate completion of authorized construction or to provide substantially the same service as would be authorized by such license. (Added 79-371, 7/9/79)
- (4) Extension of time to complete construction of authorized facilities. (Added 79-371, 7/9/79)
- (5) An authorization of facilities for remote pickup or studio links for use in the operation of a broadcast station. (Added 79-371, 7/9/79)
- * (6) Authorization pursuant to Section 325~~(b)~~ (c) of the Communications Act (" . . . studios of foreign stations") where the programs to be transmitted are special events not of a continuing nature. (Added 79-371, 7/9/79)
- (7) An authorization under any of the proviso clauses of Section 308(a) of the Communications Act concerning applications for and conditions in licenses. (Added 79-371, 7/9/79)

(b) Applications (as originally filed or amended) will be acted upon by the FCC no sooner than 30 days following public notice of acceptance for filing or amendment, except as otherwise permitted in § 73.3542, "Application for temporary authorization." (Revised 80-21, 2/8/80)

(c) An applicant who files an application or amendment thereto which is subject to the provisions of this section, must give a notice of this filing in a newspaper. Exceptions to this requirement are applications for renewal of AM, FM, TV and International broadcasting stations; low power TV stations; TV and FM translator stations; TV booster stations; FM booster stations; and applications subject to paragraph (e) of this section. The local public notice must be completed within 30 days of the tendering of the application. In the event the FCC notifies the applicant that a major change is involved, requiring the applicant to file public notice pursuant to §§ 73.3571, 73.3572, 73.3573 or 73.3578, this filing notice shall be given in a newspaper following this notification. (Revised 87-244, 9/21/87)

FEDERAL COMMUNICATIONS COMMISSION

(1) NOTICE REQUIREMENTS FOR THESE APPLICANTS ARE AS FOLLOWS:

- (i) In a daily newspaper of general circulation published in the community in which the station is located, or proposed to be located, at least twice a week for two consecutive weeks in a three-week period; or,
- (ii) If there is no such daily newspaper, in a weekly newspaper of general circulation published in that community, once a week for 3 consecutive weeks in a 4-week period; or,
- (iii) If there is no daily or weekly newspaper published in that community, in the daily newspaper from wherever published, which has the greatest general circulation in that community, twice a week for 2 consecutive weeks within a 3-week period.

(2) NOTICE REQUIREMENTS FOR APPLICANTS FOR A PERMIT PURSUANT TO SECTION 325(b) OF THE COMMUNICATIONS ACT ("* * * STUDIOS OF FOREIGN STATIONS") ARE AS FOLLOWS:

In a daily newspaper of general circulation in the largest city in the principal area to be served in the U.S.A. by the foreign broadcast station, at least twice a week for 2 consecutive weeks within a three-week period.

(3) NOTICE REQUIREMENTS FOR APPLICANTS FOR A CHANGE IN STATION LOCATION ARE AS FOLLOWS:

In the community in which the station is located and the one in which it is proposed to be located, in a newspaper with publishing requirements as in paragraphs (c)(1)(i), (ii) or (iii) of this section.

- (4) The notice required in paragraphs (c)(1), (2) and (3) of this section shall contain the information described in paragraph (f) of this section.

(d) The licensee of an operating broadcast station who files an application or amendment thereto which is subject to the provisions of this section must give notice as follows: (Added 79-371, 7/9/79)

FEDERAL COMMUNICATIONS COMMISSION

- (1) An applicant who files for renewal of a broadcast station license, other than a low power TV station license not locally originating programming as defined by § 74.701(h), ~~an FM translator station, FM booster station, TV booster station~~ or a TV translator station license, must give notice of this filing by broadcasting announcements on applicant's station. (Sample and schedule of announcements are below.) Newspaper publication is not required. An applicant who files for renewal of a low power TV station license not locally originating programming as defined by § 74.701(h), ~~an FM translator station; or a FM booster station, TV booster station~~ TV translator station licensee will comply with (g) below. (Revised 92-165, 5/26/92)
- (2) An applicant who files an amendment of an application for renewal of a broadcast station license will comply with paragraph (d)(1) of this section. (Added 79-371, 7/9/79)
- (3) An applicant who files for modification, assignment or transfer of a broadcast station license (except for International broadcast, low power TV, TV translator, TV booster, FM translator and FM booster stations) shall give notice of the filing in a newspaper as described in paragraph (c) of this section, and also broadcast the same notice over the station as follows: (Revised 87-244, 9/21/87)
 - * (i) At least once daily on four days in the second week immediately following either the tendering for filing of the application or immediately following notification to the applicant by the FCC that Public Notice is required pursuant to §§ 73.3571, 73.3572, 73.3573 or 73.3578. For commercial radio stations these announcements shall be made between 7 a.m. and 9 a.m. and/or 4 p.m. and 6 p.m. For stations which neither operate between 7 a.m. and 9 a.m. nor between 4 p.m. and 6 p.m., these announcements shall be made during the first two hours of broadcast operation. For commercial TV stations, these announcements shall be made between 6 p.m. and 11 p.m. (5 p.m. and 10 p.m. Central and Mountain time). (Revised 81-146, 6/10/81)
- (4) The broadcast notice requirements for those filing renewal applications and amendments thereto are as follows: (Added 79-371, 7/7/79)

FEDERAL COMMUNICATIONS COMMISSION

- (i) **PRE-FILING ANNOUNCEMENTS.** During the period and beginning on the first day of the sixth calendar month prior to the expiration of the license, and continuing to the date on which the application is filed, the following announcement shall be broadcast on the 1st and 16th day of each calendar month. Stations broadcasting primarily in a foreign language should broadcast the announcements in that language. (Revised 84-294, 9/25/84)

On (date of last renewal grant) (Station's call letters) was granted a license by the Federal Communications Commission to serve the public interest as a public trustee until (expiration date). (Added 79-371, 7/9/79)

Our license will expire on (date). We must file an application for renewal with the FCC (date four calendar months prior to expiration date.) When filed, a copy of this application will be available for public inspection during our regular business hours. It contains information concerning this station's performance during the last (period of time covered by the application). (Revised 83-244, 9/21/87)

Individuals who wish to advise the FCC of facts relating to our renewal application and to whether this station has operated in the public interest should file comments and petitions with the FCC by (date first day of last full calendar month prior to the month of expiration). (Added 79-371, 7/9/79)

Further information concerning the FCC's broadcast license renewal process is available at (address of location of the station's public inspection file) or may be obtained from the FCC, Washington, D.C. 20554. (Added 79-371, 7/9/79)

- (A) An applicant who files for renewal of a low power TV station locally originating programming (as defined by § 74.701(h)) shall broadcast this announcement, except that statements indicating there is a public inspection file at the station containing the renewal application and other information on the license renewal process, shall be omitted.

[Next Page is No. 744.1]

FEDERAL COMMUNICATIONS COMMISSION

- (A) (B) This announcement shall be made during the following time periods. (Added 79-371, 7/9/79)
- (1) For commercial TV stations-at least two of the required announcements between 6 p.m. and 11 p.m. (5 p.m. and 10 p.m. Central and Mountain Time). (Added 79-371, 7/9/79)
 - (2) For commercial radio stations-at least two of the required announcements between 7 a.m. and 9 a.m. and/or 4 p.m. and 6 p.m. For stations which neither operate between 7 a.m. and 9 a.m. nor between 4 p.m. and 6 p.m., at least two of the required announcements shall be made during the first two hours of broadcast operation. (Added 79-371, 7/9/79)
 - (3) For noncommercial educational stations, at the same time as commercial stations, except that such stations need not broadcast the announcement during any month during which the station does not operate. (Added 79-371, 7/9/79)
 - (4) For low power TV stations locally originating programming (as defined by § 74.701(h)), at the same time as for commercial TV stations, or as close to that time as possible.
- (ii) **POST-FILING ANNOUNCEMENTS.** During the period beginning on the date on which the renewal application is filed to the sixteenth day of the next to last full calendar month prior to the expiration of the license, all applicants for renewal of broadcast station licenses shall broadcast the following announcement on the 1st and 16th day of each calendar month. Stations broadcasting primarily in a foreign language should broadcast the announcements in that language. (Edit. Amdt. 1/27/84)

[Next Page is No. 745]

FEDERAL COMMUNICATIONS COMMISSION

On (date of last renewal grant) (Station's call letters) was granted a license by the Federal Communications Commission to serve the public interest as a public trustee until (expiration date). (Added 79-371, 7/9/79)

Our license will expire on (date). We have filed an application for renewal with the FCC. (Added 79-371, 7/9/79)

A copy of this application is available for public inspection during our regular business hours. It contains information concerning this station's performance during the last (period of time covered by application), ~~(only TV and noncommercial radio say the remainder of this paragraph) and projections of our programming during the next license period.~~

Individuals who wish to advise the FCC of facts relating to our renewal application and to whether this station has operated in the public interest should file comments and petitions with the FCC by (date first day of last full calendar month prior to the month of expiration). (Added 79-371, 7/9/79)

Further information concerning the FCC's broadcast license renewal process is available at (address of location of the station's public inspection file) or may be obtained from the FCC, Washington, D.C. 20554. (Added 79-371, 7/9/79)

- (A) An applicant who files for renewal of a low power TV station locally originating programming (as defined by § 74.701(h)) shall broadcast this announcement, except that statements indicating there is a public inspection file at the station containing the renewal application and other information on the license renewal process, shall be omitted.

[Next Page is No. 749]

FEDERAL COMMUNICATIONS COMMISSION

- (B) This announcement shall be made during the following time periods: (Revised 92-165, 5/26/92)
- (1) For commercial TV stations-at least three of the required announcements between 6 p.m. and 11 p.m. (5 p.m. and 10 p.m. Central and Mountain time), at least one announcement between 9 a.m. and 1 p.m., at least one announcement between 1 p.m. and 5 p.m., and at least one announcement between 5 p.m. and 7 p.m. (Revised 79-371, 7/9/79)
 - (2) For commercial radio stations-at least three of the required announcements between 7 a.m. and 9 a.m. and/or 4 p.m. and 6 p.m., at least one announcement between 9 a.m. and noon, at least one announcement between noon and 4 p.m., and at least one announcement between 7 p.m. and midnight. For stations which do not operate between 7 a.m. and 9 a.m. or between 4 p.m. and 6 p.m., at least three of the required announcements shall be made during the first two hours of broadcast operation. (Revised 79-371, 7/9/79)
 - (3) For noncommercial educational stations, at the same time as commercial stations, except that such stations need not broadcast the announcement during any month during which the station does not operate. In such instances noncommercial educational stations shall meet the requirements in the exact order specified in *paragraph (d)(4)(ii)(A)(1) or (2) of this section (e.g., if only four renewal notices are broadcast by an educational TV licensee, 3 must be broadcast between 6 p.m. and 11 p.m. and the fourth between 9 a.m. and 1 p.m.). (Revised 79-371, 7/9/79)
 - (4) For low power TV stations locally originating programming (as defined by § 74.701(h)), at the same time as for commercial TV stations, or as close to that time as possible. (Revised 92-165, 5/26/92)

FEDERAL COMMUNICATIONS COMMISSION

- (iii) TV broadcast stations (commercial and noncommercial educational), in presenting the pre- and post-filing announcements, must use visuals with the licensee's and the FCC's addresses when this information is being orally presented by the announcer. (Revised 79-371, 7/9/79)
- (iv) Stations which have not received a renewal grant since the filing of their previous renewal application, shall use the following first paragraph for the pre-filing and the post-filing announcements. (Added 79-371, 7/9/79)

(STATION'S CALL LETTERS) is licensed by the Federal Communications Commission to serve the public interest as a public trustee. (Added 79-371, 7/9/79)

(e) When the station in question is the only operating station in its broadcast service which is located in the community involved, or if it is a noncommercial educational station, publication of the notice in a newspaper, as provided in paragraph (c) of this section is not required, and publication by broadcast over that station as provided in paragraph (d) of this section shall be deemed sufficient to meet the notice requirements of this section. Noncommercial educational broadcast stations which do not broadcast during the portion of the year in which the period of broadcast of notice falls must comply with the provisions of paragraph (c) of this section. (Added 79-371, 7/9/79)

(f) The notice required by paragraphs (c) and (d) of this section shall contain, when applicable, the following information, except as otherwise provided in paragraphs (d)(1) and (2) and (e) of this section in regard to renewal applications: (Revised 81-276, 7/13/81)

- (1) The name of the applicant, if the applicant is an individual; the names of all partners, if the applicant is a partnership; or the names of all officers and directors and of those persons holding 10% or more of the capital stock or other ownership interest if the applicant is a corporation or an unincorporated association. (In the case of applications for assignment or transfer of control, information should be included for all parties to the application.) (Added 79-371, 7/9/79)
- (2) The purposes for which the application was or will be filed (such as construction permit, modification, assignment or transfer of control.) (Revised 81-276, 7/13/81)

FEDERAL COMMUNICATIONS COMMISSION

- (3) The date when the application or amendment was tendered for filing with the FCC. (Added 79-371, 7/9/79)
- (4) The call letters, if any, of the station, and the frequency or channel on which the station is operating or proposes to operate. (Added 79-371, 7/9/79)
- (5) In the case of an application for construction permit for a new station, the facilities sought, including type and class of station, power, location of studios, transmitter site and antenna height. (Added 79-371, 7/9/79)
- (6) In the case of an application for modification of a construction permit or license, the exact nature of the modification sought. (Added 79-371, 7/9/79)
- (7) In the case of an amendment to an application, the exact nature of the amendment. (Added 79-371, 7/9/79)
- (8) In the case of applications for a permit pursuant to Section 325(b) of the Communications Act ("... studios of foreign stations"), the call letters and location of the foreign radio broadcast station, the frequency or channel on which it operates, and a description of the programs to be transmitted over the station. (Added 79-371, 7/9/79)
- (9) A statement that a copy of the application, amendment(s), and related materials are on file for public inspection at a stated address in the community in which the station is located or is proposed to be located. See §§ 73.3526 and 73.3527. (Revised 79-371, 7/9/79)

(g) An applicant who files for ~~an~~ authorization, or major modifications, ~~assignment, transfer or renewal~~ or a major amendment thereto, for a low power TV, TV translator, TV booster, FM translator, or FM booster station, must give notice of this filing in a daily, weekly or biweekly newspaper of general circulation in the community or area to be served. Likewise, an applicant for assignment, transfer or renewal, or a major amendment thereto, for a low power TV, TV translator or FM translator station, must give this same type of newspaper notice. ~~(An applicant who files for renewal of a low power TV station locally originating programming as defined by § 74.701(h) must give notice pursuant to (d)(1) of this section.~~ The filing notice will be given immediately following the tendering for filing of the application or amendment, or immediately following notification to the applicant by the FCC that public notice is required pursuant to §§ 73.3572, 73.3573, or 73.3578.

FEDERAL COMMUNICATIONS COMMISSION

(1) Notice requirements for these applicants are as follows:

- (i) In a newspaper at least one time; or (Revised 84-492, 12/26/84)
- (ii) If there is no newspaper published or having circulation in the community or area to be served, the applicant shall determine an appropriate means of providing the required notice to the general public, such as posting in the local post office or other public place. The notice shall state: (Added 79-371, 7/9/79)
 - (A) The name of the applicant, the community or area to be served, and the transmitter site. (Added 79-371, 7/9/79)
 - (B) The purpose for which the application was filed. (Revised 80-21, 2/8/80)
 - (C) The date when the application or amendment was filed with the FCC. (Added 79-371, 7/9/79)
 - (D) The output channel or channels on which the station is operating or proposes to operate and the power used or proposed to be used. (Added 79-371, 7/9/79)
 - (E) In the case of an application for changes in authorized facilities, the nature of the changes sought. (Added 79-371, 7/9/79)
 - (F) In the case of a major amendment to an application, the nature of the amendment. (Added 79-371, 7/9/79)
 - (G) A statement, if applicable, that the station engages in or intends to engage in rebroadcasting, and the call letters, location and channel of operation of each station whose signals it is rebroadcasting or intends to rebroadcast.
 - (H) A statement that invites comments from individuals who wish to advise the FCC of facts relating to the renewal application and whether the station has operated in the public interest.

FEDERAL COMMUNICATIONS COMMISSION

(h) The applicant may certify in the appropriate application that it has or will comply with the public notice requirements contained in paragraphs (c), (d) or (g) of this section. However, an applicant for renewal of license that is required to maintain a public inspection file, shall, within 7 days of the last day of broadcast of the required publication announcements, place in its public inspection file a statement certifying compliance with § 73.3580 along with the dates and times that the pre-filing and post-filing notices were broadcast and the text thereof. This certification need not be filed with the Commission but shall be retained in the public inspection file for as long as the application to which it refers. (Revised 92-156, 5/26/92)

(i) Paragraphs (a) through (h) of this section apply to major amendments to license renewal applications. See §73.3578(a). (Added 79-371, 7/9179)

73.3584 PROCEDURE FOR FILING PETITIONS TO DENY.

(a) Except in the case of applications for new low power TV, TV translator, or TV booster stations, for major changes in the existing facilities of such stations, or for applications for a change in output channel tendered by displaced low power TV and TV translator stations pursuant to § 73.3572(a)(1), any party in interest may file with the Commission a Petition to Deny any application (whether as originally filed or if amended so as to require a new file number pursuant to §§ 73.3571(j), 73.3572(b), 73.3573(b), 73.3574(b) or 73.3578) for which local notice pursuant to § 73.3580 is required, provided such petitions are filed prior to the day such applications are granted or designated for hearing; but where the FCC issues a public notice pursuant to the provisions of §§ 73.3571(c), 73.3572(c) or 73.3573(d), establishing a "cut-off" date, such petitions must be filed by the date specified. In the case of applications for transfers and assignments of construction permits or station licenses, Petitions to Deny must be filed not later than 30 days after issuance of a public notice of the acceptance for filing of the applications. In the case of applications for renewal of license, Petitions to Deny may be filed at any time up to the deadline established in last day for filing mutually exclusive applications under § 73.3516(e). Requests for extension of time to file Petitions to Deny applications for new broadcast stations or major changes in the facilities of existing stations or applications for renewal of license will not be granted unless all parties concerned, including the applicant, consent to such requests, or unless a compelling showing can be made that unusual circumstances make the filing of a timely petition impossible and the granting of an extension warranted.

FEDERAL COMMUNICATIONS COMMISSION

(b) Except in the case of applications for new low power TV, or TV translator stations, or for major changes in the existing facilities of such stations, the applicant may file an opposition to any Petition to Deny, and the Petitioner a reply to such opposition in which allegations of fact or denials thereof shall be supported by affidavit of a person or persons with personal knowledge thereof. The times for filing such oppositions and replies shall be those provided in § 1.45 except that as to a Petition to Deny an application for renewal of license, an opposition thereto may be filed within 30 days after the Petition to Deny is filed, and the party that filed the Petition to Deny may reply to the opposition within 20 days after opposition is due or within 20 days after the opposition is filed, whichever is longer. The failure to file an opposition or a reply will not necessarily be construed as an admission of fact or argument contained in a pleading. (Revised 2/25/88)

(c) In the case of applications for new low power TV, TV translator, or TV booster stations, for major changes in the existing facilities of such stations, or for applications for a change in output channel tendered by displaced low power TV and TV translator stations pursuant to § 73.3572(a)(1), any party in interest may file with the FCC a Petition to Deny any application (whether as originally filed or if amended so as to require a new file number pursuant to § 73.3572(b)) for which local notice pursuant to § 73.3580 is required, provided such petitions are filed within 30 days of the FCC Public Notice proposing the application for grant (applicants may file oppositions within 15 days after the Petition to Deny is filed); but where the FCC selects a tentative permittee pursuant to Section 1.1601 *et seq.*, Petitions to Deny shall be accepted only if directed against the tentative selectee and filed after issuance of and within 15 days of FCC Public Notice announcing the tentative selectee. The applicant may file an opposition within 15 days after the Petition to Deny is filed. In cases in which the minimum diversity preference provided for in § 1.1623(f)(1) has been applied, an "objection to diversity claim," and opposition thereto, may be filed against any applicant receiving a diversity preference, within the same time period provided herein for Petitions and Oppositions. In all pleadings, allegations of fact or denials thereof shall be supported by appropriate certification. However, the FCC may announce, by the Public Notice announcing the acceptance of the last-filed mutually exclusive application, that a notice of Petition to Deny will be required to be filed no later than 30 days after issuance of the Public Notice. (Revised 9/21/87, 87-244)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(d) Untimely Petitions to Deny, as well as other pleadings in the nature of a Petition to Deny, and any other pleadings or supplements which do not lie as a matter of law or are otherwise procedurally defective, are subject to return by the FCC's staff without consideration. (Revised 83-114, 7/13/83)

73.3587 PROCEDURE FOR FILING INFORMAL OBJECTIONS.

Before FCC action on any application for an instrument of authorization, any person may file informal objections to the grant. Such objections may be submitted in letter form (without extra copies) and shall be signed. The limitation on pleadings and time for filing pleadings provided for in §1.45 of the rules shall not be applicable to any objections duly filed under this section. (Added 79-371, 7/9/79)

73.3588 DISMISSAL OF PETITIONS TO DENY OR WITHDRAWAL OF INFORMAL OBJECTIONS.

(a) Whenever a petition to deny or an informal objection has been filed against any application, and the filing party seeks to dismiss or withdraw the petition to deny or the informal objection, either unilaterally or in exchange for financial consideration, that party must file with the Commission a request for approval of the dismissal or withdrawal, a copy of any written agreement related to the dismissal or withdrawal, and an affidavit setting forth:

- (1) A certification that neither the petitioner nor its principals has received or will receive any money or other consideration in excess of legitimate and prudent expenses in exchange for the dismissal or withdrawal of the petition to deny;
- (2) The exact nature and amount of any consideration received or promised;
- (3) An itemized accounting of the expenses for which it seeks reimbursement; and

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (4) The terms of any oral agreement related to the dismissal or withdrawal of the petition to deny.

In addition, within 5 days of petitioner's request for approval, each remaining party to any written or oral agreement must submit an affidavit setting forth:

- (5) A certification that neither the applicant nor its principals had paid or will pay money or other consideration in excess of the legitimate and prudent expenses of the petitioner in exchange for dismissing or withdrawing the petition to deny; and
- (6) The terms of any oral agreement relating to the dismissal or withdrawal of the petition to deny.

(b) Citizens' agreements. For purposes of this section, citizens agreements include agreements arising whenever a petition to deny or informal objection in exchange for nonfinancial consideration (*e.g.*, programming, ascertainment or employment initiatives). The parties to such an agreement must file with the Commission a joint request for approval of the citizens' agreement, and a copy of any written agreement, and an affidavit executed by each party setting forth:

- (1) Certification that neither the petitioner, nor any person or organization related to the petitioner, has received or will receive any money or other consideration in connection with the citizens' agreement other than legitimate and prudent expenses incurred in prosecuting the petition to deny;
- (2) Certification that neither the petitioner, nor any person or organization related to petitioner is or will be involved in carrying out, for a fee, any programming, ascertainment, employment or other non-financial initiative referred to in the citizens' agreement; and
- (3) The terms of any oral agreement.

[Next Page is No. 756.1]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(c) For the purposes of this section:

- (1) Affidavits filed pursuant to this section shall be executed by the applicant, permittee or licensee, if an individual; a partner having personal knowledge of the facts, if a partnership; or an officer having personal knowledge of the facts, if a corporation or association.
- (2) A petition shall be deemed to be pending before the Commission from the time a petition is filed with the Commission until an order of the Commission granting or denying the petition is no longer subject to reconsideration by the Commission or to review by any court.
- (3) "Legitimate and prudent expenses" are those expenses reasonably incurred by a petitioner in preparing, filing, and prosecuting its petition for which reimbursement is being sought.
- (4) "Other consideration" consists of financial concessions, including but not limited to the transfer of assets or the provision of tangible pecuniary benefit, as well as non-financial concessions that confer any type of benefit on the recipient.

73.3589 THREATS TO FILE PETITIONS TO DENY OR INFORMAL OBJECTIONS.

(a) No person shall make or receive any payments in exchange for withdrawing a threat to file or refraining from filing a petition to deny or an informal objection. For the purposes of this section, reimbursement by an applicant of the legitimate and prudent expenses of a potential petitioner or objector incurred reasonably and directly in preparing to file a petition to deny will not be considered to be payment for refraining from filing a petition to deny or informal objection. Payments made directly to a potential petitioner or objector, or a person related to a potential petitioner or objector, to implement nonfinancial promises are prohibited unless specifically approved by the Commission.

(b) Whenever any payment is made in exchange for withdrawing a threat to file or refraining from filing a petition to deny or informal objection, the licensee must file with the Commission a copy of any written agreement related to the dismissal or withdrawal, and an affidavit setting forth:

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (1) Certification that neither the would-be petitioner, nor any person or organization related to the would-be petitioner, has received or will receive any money or other consideration in connection with the citizens' agreement other than legitimate and prudent expenses reasonably incurred in preparing to file the petition to deny;
 - (2) Certification that unless such arrangements have been specifically approved by the Commission, neither the would-be petitioner, nor any person or organization related to the would-be petitioner, is or will be involved in carrying out, for a fee, any programming ascertainment, employment or other nonfinancial initiative referred to in the citizens' agreement; and
 - (3) The terms of any oral agreement.
- (c) For purposes of this section:
- (1) Affidavits filed pursuant to this section shall be executed by the licensee, if an individual; a partner having personal knowledge of the facts, if a partnership; or an officer having personal knowledge of the facts, if a corporation or association.
 - (2) "Legitimate and prudent expenses" are those expenses reasonably incurred by a would-be petitioner in preparing to file its petition for which reimbursement is being sought.
 - (3) "Other consideration" consists of financial concessions, including but not limited to the transfer of assets or the provision of tangible pecuniary benefit, as well as non-financial concessions that confer any type of benefit on the recipient.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.3591 GRANTS WITHOUT HEARING.

(a) Except for renewal applications filed after May 1, 1995 which will be subject to paragraph (d) of this section, in the case of any application for an instrument of authorization, other than a license pursuant to a construction permit, the FCC will make the grant if it finds (on the basis of the application, the pleadings filed or other matters which it may officially notice) that the application presents no substantial and material question of fact and meets the following requirements:

- (1) There is not pending a mutually exclusive application filed in accordance with paragraph (b) of this section; (Added 79-371, 7/9/79)
- (2) The applicant is legally, technically, financially, and otherwise qualified; (Added 79-371, 7/9/79)
- (3) The applicant is not in violation of provisions of law, the FCC rules, or established policies of the FCC; and (Added 79-371, 7/9/79)
- (4) A grant of the application would otherwise serve the public interest, convenience and necessity. (Added 79-371, 7/9/79)

(b) In making its determinations pursuant to the provisions of paragraph (a) of this section, the FCC will not consider any other application, or any application if amended so as to require a new file number, as being mutually exclusive or in conflict with the application under consideration unless such other application was substantially complete, and tendered for filing by: (Revised 94-120, 6/20/94)

- (1) The close of business on the day preceding the day designated by Public Notice as the day the listed application is to be available and ready for processing;
- (2) The date prescribed in § 73.3516(e) in the case of applications which are mutually exclusive with applications for renewal of license of broadcast stations; or
- (3) The close of business on the day designated by the FCC pursuant to § 73.3564(d) as the date(s) for filing low power TV or TV translator applications.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(c) If a petition to deny the application has been filed in accordance with § 73.3584 and the FCC makes the grant in accordance with paragraph (a) of this section, the FCC will deny the petition and issue a concise statement setting forth the reasons for denial and disposing of all substantial issues raised by the petition. (Added 79-371, 7/9/79)

(d) Renewal applications filed after May 1, 1995 will be governed by the criteria established in 47 U.S.C. § 309(k).

73.3592 CONDITIONAL GRANT.

(a) Where a grant of an application would preclude the grant of any application or applications mutually exclusive with it, the FCC may, if the public interest will be served thereby, make a conditional grant of one of the applications and designate all of the mutually exclusive applications for hearing. Such conditional grant will be made upon the express condition that such grant is subject to being withdrawn if, at the hearing, it is shown that public interest will be better served by a grant of one of the other applications. Such conditional grants will be issued only where it appears: (Added 79-371, 7/9/79)

- (1) That some or all of the applications were not filed in good faith but were filed for the purpose of delaying or hindering the grant of another application; or (Added 79-371, 7/9/79)
- (2) That public interest requires the prompt establishment of broadcast service in a particular community or area; or (Added 79-371, 7/9/79)
- (3) That a grant of one of more applications would be in the public interest, and that a delay in making a grant to any applicant until after the conclusion of a hearing on all applications might jeopardize the rights of the United States under the provisions of international agreement to the use of the frequency in question; or (Added 79-371, 7/9/79)
- (4) That a grant of one application would be in the public interest, and that it appears from an examination of the remaining applications that they cannot be granted because they are in violation of provisions of the Communications Act, other statutes, or the provisions of the FCC rules. (Added 79-371, 7/9/79)

FEDERAL COMMUNICATIONS COMMISSION

(b) When two or more applications for the same AM, FM or TV assignment have been designated for hearing, the FCC may, if the public interest will be served thereby, make a conditional grant to a group composed of any two or more of the competing applicants, such grant to terminate when the successful applicant commences operation under the terms of a regular authorization. No conditional grant will be made unless all of the competing applicants have been afforded a reasonable opportunity to participate in the group seeking the conditional grant. In its application, the group shall include a special showing as to the need for the service pending operation by the successful applicant under the terms of a regular authorization; the effect, if any, of a grant on the position of any applicant which is not a member of the group; and any other factors which are deemed pertinent to the public interest judgment. (Added 79-371, 7/9/79)

73.3593 DESIGNATION FOR HEARING.

If the FCC is unable, in the case of any application for an instrument of authorization, to make the findings specified in *§ 73.3591(a), it will formally designate the application for hearing on the grounds or reasons then obtaining and will forthwith notify the applicant and all known parties in interest of such action and the grounds and reasons therefor, specifying with particularity the matters and things in issue but not including issues or requirements phased generally. (Added 79-371, 7/9/79)

73.3594 LOCAL PUBLIC NOTICE OF DESIGNATION FOR HEARING.

(a) Except as otherwise provided in paragraph (c) of this section when an application subject to the provisions of § 73.3580 (except for applications for International broadcast, low power TV, TV translator, FM translator, and FM booster stations) is designated for hearing, the applicant shall give notice of such designation as follows: Notice shall be given at least twice a week, for 2 consecutive weeks within the 3-week period immediately following release of the FCC's order, specifying the time and place of the commencement of the hearing, in a daily newspaper of general circulation published in the community in which the station is located or proposed to be located. (Added 79-371, 7/9/79)

(1) However, if there is no such daily newspaper published in the community, the notice shall be given as follows: (Added 79-371, 7/9/79)

(i) If one or more weekly newspapers of general circulation are published in the community in which the station is located or proposed to be located, notice shall be given in such a weekly newspaper once a week for 3 consecutive weeks within a 4-week period immediately following the release of the FCC's order, specifying the time and place of the commencement of the hearing; (Added 79-371, 7/9/79)

[Next Page is No. 757]

FEDERAL COMMUNICATIONS COMMISSION

(ii) If no weekly newspaper of general circulation is published in the community in which the station is located or proposed to be located, notice shall be given at least twice a week for 2 consecutive weeks within the 3-week period immediately following the release of the FCC's orders, specifying the time and place of the commencement of the hearing in the daily newspaper having the greatest general circulation in the community in which the station is located or proposed to be located. (Revised 79-371, 7/9/79)

- * (2) In the case of an application for a permit pursuant to Section 325(b)(c) of the Communications Act, the notice shall be given at least twice a week for 2 consecutive weeks within the 3-week period immediately following release of the FCC's order, specifying the time and place of the commencement of the hearing in a daily newspaper of general circulation in the largest city in the principal area to be served in the United States by the foreign radio broadcast station. (Added 79-371, 7/9/79)
- (3) In the case of an application for change in the location of a station, the notice shall be given both in the community in which the station is located and in the community in which the station is proposed to be located. (Added 79-371, 7/9/79)

(b) When an application which is subject to the provisions of § 73.3580 and which seeks modification, assignment, transfer, or renewal of an operating broadcast station is designated for hearing (except for applications for an International broadcast, low power TV, TV translator, FM translator or FM booster stations), the applicant shall, in addition to giving notice of such designation as provided in paragraph (a) of this section, cause the same notice to be broadcast over that station at least once daily for 4 days in the second week immediately following the release of the FCC's order, specifying the time and place of the commencement of the hearing. In the case of both commercial and noncommercial TV broadcast stations such notice shall be broadcast orally with the camera focused on the announcer. The notice required by this paragraph shall be broadcast during the following periods: (Revised 79-371, 7/9/79)

FEDERAL COMMUNICATIONS COMMISSION

- (1) For commercial TV stations, between 7:00 p.m. and 10:00 p.m. (Added 79-371, 7/9/79)
- (2) For commercial AM and FM stations, between 7:00 a.m. and 10:00 a.m., but if such stations do not operate during those hours, then between 6:00 p.m. and 9:00 p.m. (Added 79-371, 7/9/79)
- (3) For noncommercial educational TV stations, between 7:00 p.m. and 10:00 p.m., but if the period of broadcast of notice falls within a portion of the year during which such stations do not broadcast, then such stations need not comply with the provisions of this paragraph. (Added 79-371, 7/9/79)
- (4) For noncommercial educational AM and FM stations, between 3:00 p.m. and 10:00 p.m., but if the period of broadcast of notice falls within a portion of the year during which such stations do not broadcast, then such stations need not comply with the provisions of this paragraph. (Added 79-371, 7/9/79)

(c) If the station in question is the only operating station in its broadcast service which is located in the community involved, or if it is a noncommercial educational station, publication of the notice in a newspaper, as provided in paragraph (a) of this section, is not required, and publication by broadcast over that station as provided in paragraph (b) of this section shall be deemed sufficient to meet the requirements of paragraphs (a) and (b) of this section. However, noncommercial educational stations which do not broadcast during the portion of the year in which the period of broadcast of notice falls must comply with the provisions of paragraph (a) of this section. (Added 79-371, 7/9/79)

* (d) The notice required by paragraphs (a) and (b) of this section shall state:

- (1) The name of the applicant or applicants designated for hearing.
- (2) The call letters, if any, of the station or stations involved, and the frequencies or channels on which the station or stations are operating or proposed to operate.

[Next Page is No. 763]

FEDERAL COMMUNICATIONS COMMISSION

- (3) The time and place of the hearing. (Added 79-371, 7/9/79)
- (4) The issues in the hearing as listed in the FCC's order or summary of designation for hearing. (Revised 86-241, 5/29/86)
- (5) A statement that a copy of the application, amendment(s), and related material are on file for public inspection at a stated address in the community in which the ~~main studio is maintained or is proposed to be located~~ station is located or is proposed to be located. See §§ 73.3526 and 73.3527.

(e) When an application for renewal of license is designated for hearing, the notice shall contain the following additional statements: (Added 79-371, 7/9/79)

- (1) Immediately preceding the listing of the issues in the hearing: (Added 79-371, 7/9/79)

The application of this station for a renewal of its license to operate this station in the public interest was tendered for filing with the Federal Communications Commission on (date). After considering this application, the FCC has determined that it is necessary to hold a hearing to decide the following questions: (Added 79-371, 7/9/79)

- (2) Immediately following the listing of the issues in the hearing: (Added 79-371, 7/9/79)

The hearing will be held at (place of hearing) commencing at (time), on (date). Members of the public who desire to give evidence concerning the foregoing issues should write to the Federal Communications Commission, Washington, D.C. 20554, not later than (date). Letters should set forth in detail the specific facts concerning which the writer wishes to give evidence. If the FCC believes that the evidence is legally competent, material, and relevant to the issues, it will contact the person in question. (Added 79-371, 7/9/79)

(Here the applicant shall insert, as the date on or before which members of the public who desire to give evidence should write to the FCC, the date 30 days after the date of release of the FCC's order specifying the time and place of the commencement of the hearing.) (Added 79-371, 7/9/79)

FEDERAL COMMUNICATIONS COMMISSION

(f) When an application for a low power TV, TV translator, FM translator, or FM booster station which is subject to the provisions of § 73.3580 is designated for hearing, the applicant shall give notice of such designation as follows: Notice shall be given at least once during the 2-week period immediately following release of the FCC's order, specifying the time and place of the commencement of the hearing in a daily, weekly or biweekly publication having general circulation in the community or area to be served. However, if there is no publication of general circulation in the community or area to be served, the applicant shall determine an appropriate means of providing the required notice to the general public, such as posting in the local post office or other public area. The notice shall state: (Revised 82-107, 6/17/82)

- (1) The name of the applicant or applicants designated for hearing. (Added 79-371, 7/9/79)
- (2) The call letters, if any, of the station or stations involved, the output channel or channels of such stations, and, for any rebroadcasting, the call letters, channel and location of the station or stations being or proposed to be rebroadcast. (Revised 82-107, 6/17/82)
- (3) The time and place of the hearing. (Added 79-371, 7/9/79)
- (4) The issues in the hearing as listed in the FCC's order or summary of designation for hearing.
- (5) If the application is for renewal of license, the notice shall contain, in addition to the information required by paragraph (f)(1) through (4) of this section, the statements required by paragraph (e) of this section. (Added 79-371, 7/9/79)

(g) Within 7 days of the last day of publication or broadcast of the notice required by paragraphs (a) and (b) of this section, the applicant shall file a statement in triplicate with the FCC setting forth the dates on which the notice was published, the newspaper in which the notice was published, the text of the notice, and/or, where applicable, the date and time the notice was broadcast and the text thereof. When public notice is given by other means, as provided in paragraph (f) of this section, the applicant shall file, within 7 days of the giving of such notice, the text of the notice, the means by which it was accomplished, and the date thereof. (Added 79-371, 7/9/79)

FEDERAL COMMUNICATIONS COMMISSION

(h) The failure to comply with the provisions of this section is cause for dismissal of an application with prejudice. However, upon a finding that applicant has complied (or proposes to comply) with the provisions of Section 311(a)(2) of the Communications Act, and that the public interest, convenience and necessity will be served thereby, *the presiding officer may authorize an applicant, upon a showing of special circumstances, to publish notice in a manner other than that prescribed by this section; may accept publication of notice which does not conform strictly in all respects with the provisions of this section; or may extend the time for publishing notice. (Added 79-371, 7/9/79)

73.3597 PROCEDURES ON TRANSFER AND ASSIGNMENT APPLICATIONS.

(a) If, upon the examination of an application for FCC consent to an assignment of a broadcast construction permit or license or for a transfer of control of a corporate permittee or licensee, it appears that the station involved has been operated on-air by the current licensee or permittee for less than one year, the application will be designated for hearing on appropriate issues unless the FCC is able to find that: (Revised 84-528, 3/20/85)

- (1) The permit or license was not authorized either through the Minority Ownership Policy or after a comparative hearing or, in the case of low power TV and TV translator stations, the permit or license was not authorized after a lottery in which the permittee or licensee benefited from minority or diversity preferences; (Revised 84-528, 3/20/85)
- (2) The application involves an FM translator station or FM booster station only; (Revised 83-114, 7/13/83)
- (3) The application involves a *pro forma* assignment or transfer of control; or (Revised 82-519, 12/14/82)
- (4) The assignor or transferor has made an affirmative factual showing, supported by affidavits of a person or persons with personal knowledge thereof, which establishes that, due to unavailability of capital, to death or disability of station principals, or to other changed circumstances affecting the licensee or permittee occurring subsequent to the acquisition of the license or permit, FCC consent to the proposed assignment or transfer of control will serve the public interest, convenience and necessity. (Revised 82-519, 12/14/82)
- (5) The assignee or transferee has made an affirmative factual showing, supported by affidavits of a person or persons with personal knowledge thereof, which established that the proposed transaction would involve an assignment or transfer to a minority-owned or minority controlled entity in furtherance of our Minority Ownership Policy. (Revised 84-528, 3/20/85)

FEDERAL COMMUNICATIONS COMMISSION

- (b) (1) The commencement date of ~~the~~ one-year period set forth in paragraph (a) of this section shall be the date on which the station initiated program tests in accordance with § 73.1620 or § 74.14.
- (2) In determining whether the station has been operating on-air for one year, the FCC will calculate the period between the date of initiation of program tests (as specified in paragraph (b)(1) of this section) and the date the application for transfer or assignment is tendered for filing with the FCC. (Added 82-519, 12/14/82)
- (c) (1) As used in paragraphs (c) and (d) of this section: (Added 82-519, 12/14/82)
- (i) "Unbuilt station" refers to an AM, FM, or TV broadcast station or a low power TV or TV translator station for which a construction permit is outstanding, and, regardless of the stage of physical completion, ~~for as to~~ which program tests have not commenced or, if required, been authorized.
- (ii) "Seller" includes the assignor(s) of a construction permit for an unbuilt station, the transferor(s) of control of the holder of such construction permit, and any principal or such assignor(s) or transferor(s) who retains an interest in the permittee or acquires or reacquires such interest within 1 year after commencing program tests. (Edit. Amdt. 3/4/83)
- (2) The FCC will not consent to the assignment or transfer of control of the construction permit of an unbuilt station if the agreements or understandings between the parties provide for, or permit, payment to the seller of a sum in excess of the aggregate amount clearly shown to have been legitimately and prudently expended and to be expended by the seller, solely for preparing, filing, and advocating the grant of the construction permit for the station, and for other steps reasonably necessary toward placing the station in operation. (Added 79-371, 7/9/79)

FEDERAL COMMUNICATIONS COMMISSION

- (3) (i) Applications for consent to the assignment of a construction permit or transfer of control shall, in the case of unbuilt stations, be accompanied by declarations both by the assignor (or transferor) and by the assignee (or transferee) that, except as clearly disclosed in detail in the applications, there are no agreements or understandings for reimbursement of the seller's expenses or other payments to the seller, for the seller's retention of any interest in the station, for options or any other means by which the seller may acquire such an interest, or for any other actual or potential benefit to the seller in the form of loans, the subsequent repurchase of the seller's retained interest, or otherwise. (Added 79-371, 7/9/79)
- (ii) When the seller is to receive reimbursement of his expenses, the applications of the parties shall include an itemized accounting of such expenses, together with such factual information as the parties rely upon for the requisite showing that those expenses represent legitimate and prudent outlays made solely for the purposes allowable under paragraph ~~(e)(2)(c)(2)~~ of this section.
- (d) (1) Whenever an agreement for the assignment of the construction permit of an unbuilt station or for the transfer of control of the permittee of an unbuilt station, or any arrangement or understanding incidental thereto, provides for the retention by the seller of any interest in the station, or for any other actual or potential benefit to the seller in the form of loans or otherwise, the question is raised as to whether the transaction involves actual or potential gain to the seller over and above the legitimate and prudent out-of-pocket expenses allowable under paragraph ~~(e)(2)(c)(2)~~ of this section. In such cases the FCC will designate the assignment or transfer applications for evidentiary hearing. However, a hearing is not mandatory in cases coming within paragraph ~~(f)(2)(d)(2)~~ of this section below.

FEDERAL COMMUNICATIONS COMMISSION

- (2) It is not intended to forbid the seller to retain an equity interest in an unbuilt station which he is transferring or assigning if the seller obligates himself, for the period of ending 1 year after commencing program tests, to provide that part of the total capital made available to the station, up to the end of that period, which is proportionate to the seller's equity share in the permittee, taking into account equity capital, loan capital, and guarantees of interest and amortization payments for loan capital provided by the seller before the transfer or assignment. This condition will be satisfied:
- (i) In the case of equity capital: By paid-in cash capital contributions proportionate to the seller's equity share; (Added 79-371, 7/9/79)
 - (ii) In cases where any person who has an equity interest in the permittee provides loan capital: By the seller's provision of that part of the total loan capital provided by equity holders which is proportionate to the seller's equity share; and (Added 79-371, 7/9/79)
 - (iii) In cases where any person cosigns or otherwise guarantees payments under notes given for loan capital provided by nonequity holders: By similar guarantees by the seller covering that part of such payments as is proportionate to the seller's equity share. However, this condition shall not be deemed to be met if the guarantees given by persons other than the seller cover, individually or collectively, a larger portion of such payments than the ratio of the combined equities of persons other than the seller to the total equity. (Added 79-371, 7/9/79)
- (3) In cases which are subject to the requirements of paragraphs ~~(f)(2)(i), (ii) and (iii) of this section~~ (d)(2)(i), (ii) and (iii) of this section:

FEDERAL COMMUNICATIONS COMMISSION

- (i) The assignee's (or transferee's) application shall include a showing of the anticipated capital needs of the station through the first year of its operation and the seller's financial capacity to comply with the above requirements, in the light of such anticipated capital needs. (Added 79-371, 7/9/79)
 - (ii) The FCC will determine from its review of the applications whether a hearing is necessary to ensure compliance with the above requirements. (Added 79-371, 7/9/79)
 - (iii) Compliance with the above requirements will be subject to review by the FCC at any time, either when considering subsequently filed applications or whenever the FCC may otherwise find it desirable. (Added 79-371, 7/9/79)
 - (iv) Within 30 days after any time when a seller is required to provide equity or loan capital or execute guarantees, the permittee shall furnish the FCC a written report containing sufficient details as to the sources and amounts of equity capital paid in, loan capital made available, or guarantees obtained as to enable the FCC to ascertain compliance with the above requirements. (Added 79-371, 7/9/79)
 - (v) No steps shall be taken by the permittee to effectuate arrangements for the provision of equity or loan capital from sources not previously identified and disclosed to the FCC, until 30 days after the permittee has filed with the FCC a report of such arrangements and of provisions made for the seller's compliance with the above requirement. (Added 79-371, 7/9/79)
 - (vi) The provisions of paragraphs (d)(3)(iv) and (v) of this section shall cease to apply 1 year after commencing program tests. (Edit. Amdt. 3/4/83)
- (4) Applications subject to this paragraph (d) of this section will, in any event, be designated for evidentiary hearing in any case where the agreements, arrangements or understandings with the seller provide for the seller's option to acquire equity in the station or to increase equity interests he retains at the time of the assignment or transfer of control. An evidentiary hearing will similarly be held in any case in which the assignee(s), transferee(s) or any of their principals, or any person in privity therewith, has an option to purchase all or part of the seller's retained or subsequently acquired equity interests in the station. (Added 79-371, 7/9/79)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.3598 PERIOD OF CONSTRUCTION.**(a) TV BROADCAST STATIONS.**

Each original construction permit for the construction of a new TV broadcast station, or to make changes in an existing station, shall specify a period of no more than 24 months from the date of issuance of the original construction permit within which construction shall be completed and application for license filed. (Edit. Amdt. 4/10/87)

(b) OTHER BROADCAST, AUXILIARY AND INSTRUCTIONAL TV FIXED STATIONS.

Each original permit for the construction of a new AM, FM or International Broadcast; low power TV; TV translator; TV booster; FM translator; FM booster; broadcast auxiliary; or Instructional TV Fixed station, or to make changes in such existing stations, shall specify a period of no more than 18 months from the date of issuance of the original construction permit within which construction shall be completed and application for license be filed. (Revised 87-244, 9/21/87)

(c) An existing AM station operating in the 535-1605 kHz band that receives a conditional permit to operate in the 1605-1705 kHz band; such permit shall specify a period of not more than 18 months from the date of issuance of the original construction permit within which construction shall be completed and application for license filed.

73.3599 FORFEITURE OF CONSTRUCTION PERMIT.

A construction permit shall be declared forfeited if the station is not ready for operation within the time specified therein or within such further time as the FCC may have allowed for completion, and a notation of the forfeiture of any construction permit under this provision will be placed in the records of the FCC as of the expiration date. (Added 85-647, 12/10/85)

73.3601 SIMULTANEOUS MODIFICATION AND RENEWAL OF LICENSE.

When an application is granted by the FCC necessitating the issuance of a modified license less than 60 days prior to the expiration date of the license sought to be modified, and an application for renewal of the license is granted subsequent or prior thereto (but within 30 days of expiration of the present license), the modified license as well as the renewal license shall be issued to conform to the combined action of the FCC. (Added 79-371, 7/9/79)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.3603 SPECIAL WAIVER PROCEDURE RELATIVE TO APPLICATIONS.

(a) In the case of any broadcast applications designated for hearing, the parties may request the FCC to grant or deny an application upon the basis of the information contained in the applications and other papers specified in paragraph (b) of this section without the presentation of oral testimony. Any party desiring to follow this procedure should execute and file with the FCC a waiver in accordance with paragraph (e) of this section, and serve copies on all other parties, or a joint waiver may be filed by all the parties. Upon the receipt of waivers from all parties to a proceeding, the FCC will decide whether the case is an appropriate one for determination without the presentation of oral testimony. If it is determined by the FCC that, notwithstanding the waivers, the presentation of oral testimony is necessary, the parties will be so notified and the case will be retained on the hearing docket. If the FCC concludes that the case can appropriately be decided without the presentation of oral testimony, the record will be considered as closed as of the date the waivers of all the parties were first on file with the FCC.*

(b) In all cases considered in accordance with this procedure, the FCC will decide the case on the basis of the information contained in the applications and in any other papers pertaining to the applicants or applications which are open to public inspection and which were on file with the FCC when the record was closed. The FCC may call upon any party to furnish any additional information which the FCC deems necessary to a proper decision. Such information shall be served upon all parties. The waiver previously executed by the parties shall be considered in effect unless within 10 days of the service of such information the waiver is withdrawn.*

(c) Any decision by the FCC rendered pursuant to this section will be in the nature of a final decision, unless otherwise ordered by the FCC.*

(d) By agreeing to the waiver procedure prescribed in this section, no party shall be deemed to waive the right to petition for reconsideration or rehearing, or to appeal to the courts from any adverse final decision of the FCC.*

(e) The waiver provided for by this section shall be in the following form:*

**Added 79-371, 7/9/79*

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

WAIVER _____

Name applicant _____

Call letters _____

Docket No. _____

The undersigned hereby requests the FCC to consider its application and grant or deny it in accordance with the procedure prescribed in § 73.3603 of the FCC's rules and regulations. It is understood that all the terms and provisions of _____ are incorporated in this waiver.*

73.3605 RETENTION OF APPLICATIONS IN HEARING STATUS AFTER DESIGNATION FOR HEARING.*

(a) After an application for a broadcast facility is designated for hearing, it will be retained in hearing status upon the dismissal or amendment and removal from hearing of any other application or applications with which it has been consolidated for hearing.*

(b) Where any applicants for a broadcast facility file a request pursuant to § 73.3525(a) for approval of an agreement to remove a conflict between their applications, the applications will be retained in hearing status pending such proceedings on the joint request as may be ordered and such action thereon as may be taken.*

- (1) If further hearing is not required on issues other than those arising out of the agreement, the proceeding shall be terminated and appropriate disposition shall be made of the applications.*
- (2) Where further hearing is required on issues unrelated to the agreement, the presiding officer shall continue to conduct the hearing on such other issues pending final action on the agreement, but the record in the proceeding shall not be closed until such final action on the agreement has been taken.*
- (3) In any case where a conflict between applications will be removed by an agreement for an engineering amendment to an application, the amended application shall be removed from hearing status upon final approval of the agreement and acceptance of the amendment.*

(c) An application for a broadcast facility which has been designated for hearing and which is amended so as to eliminate the need for hearing or further hearing on the issues specified, other than as provided for in paragraph (b) of this section, will be removed from hearing status.*

(*Added 79-371, 7/9/79)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.3612 ANNUAL EMPLOYMENT REPORT.

Each licensee or permittee of a commercially or noncommercially operated AM, FM, TV or International broadcast station with five or more fulltime employees shall file an annual employment report with the FCC on or before ~~May 31~~ September 30 of each year on FCC Form 395.

73.3613 FILING OF CONTRACTS.

Each licensee or permittee of a commercial or noncommercial AM, FM, TV or International broadcast station shall file with the FCC copies of the following contracts, instruments, and documents together with amendments, supplements, and cancellations (with the substance of oral contracts reported in writing), within 30 days of execution thereof. (Added 79-371, 7/9/79)

(a) Network service: Network affiliation contracts between stations and networks will be reduced to writing and filed as follows: (Added 79-371, 7/9/79)

- (1) All network affiliation contracts, agreements or understandings between a TV broadcast or low power TV station and a national network. For the purposes of this paragraph the term network means any person, entity, or corporation which offers an interconnected program service on a regular basis for 15 or more hours per week to at least 25 affiliated television licensees in 10 or more states; and/or any person, entity, or corporation controlling, controlled by, or under common control with such person, entity, or corporation. (Revised 85-370, 7/22/85)
- (2) Each such filing on or after May 1, 1969, initially shall consist of a written instrument containing all of the terms and conditions of such contract, agreement or understanding without reference to any other paper or document by incorporation or otherwise. Subsequent filings may simply set forth renewal, amendment or change, as the case may be, of a particular contract previously filed in accordance herewith.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (3) The FCC shall also be notified of the cancellation or termination of network affiliations, contracts for which are required to be filed by this section.

(b) Ownership or control: Contracts, instruments or documents relating to the present or future ownership or control of the licensee or permittee or of the licensee's or permittee's stock, rights or interests therein, or relating to changes in such ownership or control shall include but are not limited to the following: (Added 79-371, 7/9/79)

- (1) Articles of partnership, association, and incorporation, and changes in such instruments; (Added 79-371, 7/9/79)
- (2) Bylaws, and any instruments affecting changes in such bylaws; (Added 79-371, 7/9/79)
- (3) Any agreement, document or instrument providing for the assignment of a license or permit, or affecting, directly or indirectly, the ownership or voting rights of the licensee's or permittee's stock (common or preferred, voting or non-voting), such as: (Added 79-371, 7/9/79)
 - (i) Agreements for transfer of stock; (Added 79-371, 7/9/79)
 - (ii) Instruments for the issuance of new stock; or (Added 79-371, 7/9/79)
 - (iii) Agreements for the acquisition of licensee's or permittee's stock by the issuing licensee or permittee corporation. Pledges, trust agreements, options to purchase stock and other executory agreements are required to be filed. However, trust agreements or abstracts thereof are not required to be filed, unless requested specifically by the FCC. Should the FCC request an abstract of the trust agreement in lieu of the trust agreement, the licensee or permittee will submit the following information concerning the trust: (Added 71-371, 7/9/79)
 - (A) Name of trust;
 - (B) Duration of trust;
 - (C) Number of shares of stock owned;

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (D) Name of beneficial owner of stock;
 - (E) Name of record owner of stock;
 - (F) Name of the party or parties who have the power to vote or control the vote of the shares; and
 - (G) Any conditions on the powers of voting the stock or any unusual characteristics of the trust.
- (4) Proxies with respect to the licensee's or permittee's stock running for a period in excess of 1 year, and all proxies, whether or not running for a period of 1 year, given without full and detailed instructions binding the nominee to act in a specified manner. With respect to proxies given without full and detailed instructions, a statement showing the number of such proxies, by whom given and received, and the percentage of outstanding stock represented by each proxy shall be submitted by the licensee or permittee within 30 days after the stockholders' meeting in which the stock covered by such proxies has been voted. However, when the licensee or permittee is a corporation having more than 50 stockholders, such complete information need be filed only with respect to proxies given by stockholders who are officers or directors, or who have 1% or more of the corporation's voting stock. When the licensee or permittee is a corporation having more than 50 stockholders and the stockholders giving the proxies are not officers or directors or do not hold 1% or more of the corporation's stock, the only information required to be filed is the name of any person voting 1% or more of the stock by proxy, the number of shares voted by proxy by such person, and the total number of shares voted at the particular stockholders' meeting in which the shares were voted by proxy. (Added 79-371, 7/9/79)
- (5) Mortgage or loan agreements containing provisions restricting the licensee's or permittee's freedom of operation, such as those affecting voting rights, specifying or limiting the amount of dividends payable, the purchase of new equipment, or the maintenance of current assets. (Added 79-371, 7/9/79)
- (6) Any agreement reflecting a change in the officers, directors or stockholders of a corporation, other than the licensee or permittee, having an interest, direct or indirect, in the licensee or permittee as specified in § 73.3615. (Added 79-371, 7/9/79)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(c) Personnel:

- (1) Management consultant agreements with independent contractors; contracts relating to the utilization in a management capacity of any person other than an officer, director, or regular employee of the licensee or permittee; station management contracts with any persons, whether or not officers, directors, or regular employees, which provide for both a percentage of profits and a sharing of losses; or any similar agreements. (Added 79-371, 7/9/79)
- (2) The following contracts, agreements, or understandings need not be filed: Agreements with persons regularly employed as general or station managers or salesmen; contracts with program managers or program personnel; contracts with attorneys, accountants or consulting radio engineers; contracts with performers; contracts with station representatives; contracts with labor unions; or any similar agreements. (Added 79-371, 7/9/79)

(d) Time brokerage agreements: Time brokerage agreements involving radio stations, where the licensee (including all parties under common control) is the brokering entity, there is a principal community contour (predicted or measured 5 mV/m groundwave for AM stations and predicted 3.16 mV/m for FM stations) overlap with the brokered station, and more than 15 percent of the time of the brokered station, on a weekly basis, is brokered by that licensee. Confidential or proprietary information may be redacted where appropriate but such information shall be made available for inspection upon request by the FCC. (Revised 92-361, 9/16/92)

(e) The following contracts, agreements or understandings need not be filed but shall be kept at the station and made available for inspection upon request by the FCC: contracts relating to the sale of television broadcast time to "time brokers" for resale; subchannel leasing agreements for Subsidiary Communications Authorization operation; franchise/leasing agreements for operation of telecommunications services on the TV vertical blanking interval and in the visual signal; time sales contracts with the same sponsor for 4 or more hours per day, except where the length of the events (such as athletic contests, musical programs and special events) broadcast pursuant to the contract is not under control of the station; and contracts with chief operators.

[Next Page is No. 776.1]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.3615 OWNERSHIP REPORTS.

(a) With the exception of sole proprietorships and partnerships composed entirely of natural persons, each licensee of a commercial AM, FM, or TV broadcast station shall file an Ownership Report on FCC Form 323 once a year, on the anniversary of the date that its renewal application is required to be filed. Licensees owning multiple stations with different anniversary dates need file only one Report per year on the anniversary of their choice, provided that their Reports are not more than one year apart. A licensee with a current and unamended Report on file at the Commission may certify that it has reviewed its current Report and that it is accurate, in lieu of filing a new Report. Ownership Reports shall provide the following information as of a date not more than 60 days prior to the filing of the Report: (Revised 86-410, 2/12/87)

- (1) In the case of an individual, the name of such individual; (Added 79-371, 7/9/79)
- (2) In the case of a partnership, the name of each partner and the interest of each partner. Except as specifically noted below, the names of limited partners shall be reported. A limited partner need not be reported, regardless of the extent of its ownership, if the limited partner is not materially involved, directly or indirectly, in the management or operation of the licensee and the licensee so certifies. (Revised 85-252, 7/31/85)
 - *(i) Any change in partners or in their rights will require prior consent of the FCC upon an application for consent to assignment of license or permit. If such change involves less than a controlling interest, the application for FCC consent to such changes may be made upon FCC Form 316.
- (3) In the case of a corporation, association, trust, estate or receivership, the data applicable to each:

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(i) (A) The name, residence, citizenship, and stock-holding of every officer, director, trustee, executor, administrator, receiver, and member of an association, and any stockholder which holds stock accounting for 5 percent or more of the votes of the corporation, except that an investment company, insurance company, or bank trust department need be reported only if it holds stock amounting to 10 percent or more of the votes, provided that the licensee certifies that such entity has made no attempt to influence, directly or indirectly, the management or operation of the licensee, and that there is no representation on the licensee's board or among its officers by any person professionally or otherwise associated with the entity. (Revised 86-410, 2/12/87)

(B) A licensee shall report any separate interests known to the licensee to be held ultimately by the same individual or entity, whether those interests are held in custodial accounts, by individual holding corporations or otherwise, if, when aggregated: (Revised 85-252, 7/31/85)

(1) The sum of all interests except those held by or through "passive investors" is equal to or exceeds 5 percent; or (Added 85-252, 7/31/85)

(2) The sum of all interests held by or through "passive investors" is equal to or exceeds 10 percent; or (Added 85-252, 7/31/85)

(3) The sum of the interests computed under paragraph (a)(3)(i)(B)(1) of this section plus the sum of the interests computed under paragraph (a)(3)(i) (B)(2) of this section is equal to or exceeds 10 percent. (Added 85-252, 7/31/85)

(C) If the majority of the voting stock of a corporate licensee is held by a single individual or entity, no other stockholding need be reported for that licensee; (Added 85-252, 7/31/85)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (ii) Full information as to family relationship or business association between two or more officials and/or stockholders, trustees, executors, administrators, receivers, and members of any association; (Added 79-371, 7/9/79)

[Next Page is No. 777]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (iii) Capitalization with a description of the classes and voting power of stock authorized by the corporate charter or other appropriate legal instrument and the number of shares of each class issued and outstanding; and (Added 79-371, 7/9/79)
- (iv) Full information with respect to the interest and identity of any person having any direct, indirect, fiduciary, or beneficial interest in the licensee or in its stock accounting for 5% or more of its votes. For example: (Revised 84-115, 6/6/84)
 - (A) Where A is the trustee of stock held for beneficiary B, A shall be reported if A votes for stock or has the sole or shared power to dispose of the stock; B or any other party shall be reported if B or such party votes the stock or has sole power to dispose of the stock or has the power to revoke the trust or replace the trustee at will; (Revised 84-115, 6/6/84)

EDITOR'S NOTE: Section 73.3615(a)(3)(iv)(B) has been so completely revised by Amendment No. 84-252 that the previous wording is not shown.

- (B) Where X is not a natural person and has attributable ownership interest in the licensee under § 73.3555 of the rules, regardless of its position in the vertical ownership chain, an Ownership Report shall be filed for X which, except as specifically noted below, must contain the same information as required of a licensee. If X has a voting stockholder interest in the licensee, only those voting interests of X that are cognizable after application of the "multiplier" described in Note 2(d) of § 73.3555 of the rules, if applicable, shall be reported. If X is a corporation, whether or not its interest in the licensee is by virtue of its ownership of voting stock, the officers and directors shall be reported. With respect to those officers and directors whose duties and responsibilities are wholly unrelated to the licensee, and who wish to be relieved of attribution in the licensee, the name, title and duties of these officers and directors, with statements properly documenting that their duties do not involve the licensee, shall be reported.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (4) In the case of all licensees: (Added 79-371, 7/9/79)
- (i) A list of all contracts still in effect required to be filed with the FCC by § 73.3613 showing the date of execution and expiration of each contract; and (Added 79-371, 7/9/79)
 - (ii) Any interest which the licensee may have in any other broadcast station. (Added 79-371, 7/9/79)

(b) Except as specifically noted below, each permittee of a commercial AM, FM or TV broadcast station shall file an Ownership Report on FCC Form 323 (1) within 30 days of the date of grant by the FCC of an application for original construction permit and (2) on the date that it applies for a station license. The Ownership Report of the permittee shall give the information required by the applicable portions of paragraph (a) of this section. A permittee with a current and unamended Report on file at the Commission may certify that it has reviewed its current Report and it is accurate, in lieu of filing a new Report. (Revised 85-252, 7/31/85)

(c) Before any change is made in the organization, capitalization, officers, directors, or stockholders of a corporation other than licensee or permittee, which results in a change in the control of the licensee or permittee, prior FCC consent must be received under § 73.3540. A transfer of control takes place when an individual or group in privity, gains or loses affirmative or negative (50%) control. See instructions on FCC Form 323 (Ownership Report). (Added 84-115, 6/6/84)

(d) Each licensee of a noncommercial educational AM, FM or TV broadcast station shall file an Ownership Report on FCC Form 323-E at the time the application for renewal of station license is required to be filed. Licensees owning more than one noncommercial educational AM, FM or TV broadcast station need file only one Ownership Report at 5 year intervals for TV stations and 7 year intervals for AM and FM stations. Ownership Reports shall give the following information as of a date not more than 30 days prior to the filing of the Ownership Report: (Edit. Amdt. 2/25/88)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

- (1) The following information as to all officers, members of governing board, and holders of 1% or more ownership interest (if any): Name, residence, office held, citizenship, principal profession or occupation, and by whom appointed or elected. (Added 79-371, 7/9/79)
- (2) Full information with respect to the interest and identity of any individual, organization, corporation, association, or any other entity which has direct or indirect control over the licensee or permittee. (Added 79-371, 7/9/79)
- (3) A list of all contracts still in effect required by § 73.3613 to be filed with the FCC, showing the date of execution and expiration of each contract. (Added 79-371, 7/9/79)
- (4) Any interest which the licensee or permittee or any of its officers, members of the governing board, and holders of 1% or more ownership interest (if any) held in any other broadcast station. (Added 79-371, 7/9/79)

(e) Each permittee of a noncommercial educational AM, FM or TV broadcast station shall file an Ownership Report on FCC Form 323-E within 30 days of the date of grant by the FCC of an application for original construction permit. The Ownership Report of the permittee shall give the information required by the applicable ~~portions of paragraph (e) of this section-~~ form.

(f) A supplemental Ownership Report on FCC Form 323-E shall be filed by each licensee or permittee within 30 days after any change occurs in the information required by the Ownership Report from that previously reported. Such report should include, without limitation: (Edit. Amdt. 10/1/85)

- (1) Any change in organization; (Added 79-371, 7/9/79)
- (2) Any change in officers or directors; (Added 79-371, 7/9/79)
- (3) Any transaction affecting the ownership (direct or indirect) or voting rights with respect to the licensee or permittee (or with respect to any stock interest therein). (Added 79-371, 7/9/79)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

(g) A copy of all ownership and supplemental ownership reports and related material filed pursuant to this section shall be maintained and made available for public inspection locally as required by §§ 73.3526 and 73.3527. (Edit. Amdt. 10/1/85)

73.3617 BROADCAST INFORMATION AVAILABLE ON THE INTERNET.

The Mass Media Bureau and each of its Divisions provide information on the Internet regarding broadcast rules and policies, pending and completed rulemakings, and pending applications. These sites also include copies of public notices and texts of recent decisions. The Mass Media Bureau Internet address is <http://www.fcc.gov/mmb/>; the Audio Services Division address is <http://www.fcc.gov/mmb/asd/>; the Video Services Division address is <http://www.fcc.gov/mmb/vsd/>; the Policy and Rules Division address is <http://www.fcc.gov/mmb/prd/>; and the Enforcement Division address is <http://www.fcc.gov/mmb/enf/>.

73.3999 ENFORCEMENT OF 18 U.S.C. 1464 (RESTRICTIONS ON THE TRANSMISSION OF OBSCENE AND INDECENT MATERIAL).

(a) No licensee of a radio or television broadcast station shall broadcast any material which is obscene. (Added 93-42, 2/24/93)

(b) No licensee of a radio or television broadcast shall broadcast on any day between 6 a.m. and 10 p.m. any material which is indecent. (Revised 95-346, 8/28/95)

[Next Page is No. 791]

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.4000 LISTING OF FCC POLICIES.

The following sections list, solely for the purpose of reference and convenience, certain Policies of the FCC. The present listing of FCC policies and citations thereto should not be relied upon as an all-inclusive list, and the failure to include a policy in this list does not affect its validity. Each section bears the title of one Policy and the citations which will direct the user to the specific document(s) pertaining to that Policy. (Added 79-327, 6/29/79)

73.4005 ADVERTISING-REFUSAL TO SELL.

See 412 U.S. 94 (Supreme Court, 1973).

73.4015 APPLICATIONS FOR AM AND FM CONSTRUCTION PERMITS, INCOMPLETE OR DEFECTIVE.

See Public Notice, FCC 84-366, dated August 2, 1984, 49 FR 47331, December 3, 1984. (Edit. Amdt. 12/26/84)

73.4017 APPLICATION PROCESSING: COMMERCIAL FM STATIONS.

See Report and Order, MM Docket 84-750, FCC 85-125, adopted March 4, 1985. 50 FR 19936, May 13, 1985.

73.4045 BARTER AGREEMENTS.

See Order, FCC 72-167, adopted February 16, 1972. 33 FCC 2d 653; 37 FR 4009, February 25, 1972.

73.4050 CHILDREN'S TV PROGRAMS.

(a) See Report and Policy Statement, Docket 19142, FCC 74-1174, adopted October 24, 1974. 50 FCC 2d 1; 39 FR 39396, November 6, 1974. (Edit. Amdt. 4/3/84)

(b) See Report and Order; Policy Statement, Docket 19142, FCC 83-609, adopted December 22, 1983. ~~96 FCC 2d 634~~; 49 FR. 1704, January 13, 1984.

(c) See Report and Order, MM Dockets 90-570 and 83-670, FCC 91-113, adopted April 9, 1991. 6 FCC Rcd 2111; 56 FR 19611, April 19, 1991; Memorandum Opinion and Order, MM Dockets 90-570 and 83-670, FCC 91-248, adopted August 1, 1991. 6 FCC Rcd 5093; 56 FR 42707, August 29, 1991.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.4055 CIGARETTE ADVERTISING.

See 15 U.S.C. 1355.

73.4060 CITIZENS AGREEMENTS.

(a) See Report and Order, Docket 20495, FCC 75-1359, adopted December 10, 1975, 57 FCC 2d 42; 40 FR 49730, December 30, 1975. (Revised 79-610, 10/22/79)

(b) See Memorandum Opinion and Order, FCC 78-875, adopted December 21, 1978. 70 FCC 2d 1672. (Revised 79-610, 10/22/79)

~~**73.4065 COMBINATION ADVERTISING RATES: JOINT SALES PRACTICES.**~~

~~(a) See Report and Order, Docket 19789, FCC 76-190, adopted February 2, 1976, 59 FCC 2d 894; 41 FR 24719, June 18, 1976.~~

~~(b) See Report and Order, Docket 80-438, FCC 81-371, adopted July 30, 1981, 87 FCC 2d _____; 46 FR 43681, August 31, 1981.~~

~~(c) See Report and Order, Docket 80-438, FCC 81-371, adopted July 30, 1981, 87 FCC 2d _____; 46 FR 43681, August 31, 1981.~~

73.4075 COMMERCIALS, LOUD.

See Memorandum Opinion and Order, BC Docket 79-168, FCC 84-300, adopted June 27, 1984, 49 FR 28077, July 10, 1984. (Edit. Amdt. 9/27/84)

**73.4082 COMPARATIVE BROADCAST HEARINGS-
SPECIALIZED PROGRAMMING FORMATS.**

(a) See Memorandum Opinion and Order, FCC 80-33, adopted January 30, 1980. 75 FCC 2d 721. (Added 82-25, 3/5/82)

(b) See Report and Order, Docket 79-137, FCC 79-331, adopted June 1, 1979. 72 FCC 2d 202. (Added 82-25, 3/5/82)

(c) See Memorandum Opinion and Order, FCC 79-206, adopted March 30, 1979. 71 FCC 2d 460. (Added 82-25, 3/5/82)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.4091 DIRECT BROADCAST SATELLITES.

(a) See Report and Order, General Docket 80-603, FCC 82-285, adopted June 23, 1982. 90 FCC 2d 676; 47 FR 31555, July 21, 1982. (Edit. Amdt. 3/4/83)

(b) See Memorandum Opinion and Order, FCC 82-427, adopted September 23, 1982. 91 FCC 2d. (Edit. Amdt. 3/4/83)

(c) See Memorandum Opinion and Order, FCC 82-498, adopted November 31, 1982. 91 FCC 2d. (Edit. Amdt. 3/4/83)

73.4094 DOLBY ENCODER.

See Public Notice dated July 10, 1974, 72 FCC 2d 790. (Added 80-21, 2/8/80)

73.4095 DRUG LYRICS.

(a) See Public Notice, FCC 71-205, dated March 5, 1971. 28 FCC 2d 409; 36 FR 4901, March 13, 1971.

(b) See Memorandum Opinion and Order, FCC 71-428, adopted April 16, 1971. 31 FCC 2d 377; 36 FR 8090, April 29, 1971.

73.4097 EBS (NOW EAS) ATTENTION SIGNALS ~~TESTON~~ AUTOMATED PROGRAMMING SYSTEMS.

See Public Notice dated March 1, 1979. 72 FCC 2d 788; 44 FR 17792, March 23, 1979.

73.4099 FINANCIAL QUALIFICATIONS, CERTIFICATION OF.

See Public Notice, FCC 87-97, adopted March 19, 1987. 52 FR 17333, May 7, 1987.

73.4100 FINANCIAL QUALIFICATIONS: NEW AM AND FM STATIONS.

See Public Notice, FCC 78-556, dated August 2, 1978. 69 FCC 2d 407; 43 FR 34841, August 7, 1978.

73.4101 FINANCIAL QUALIFICATIONS, TV STATIONS.

See Public Notice, FCC 79-299, dated May 11, 1979. 72 FCC 2d 784; 44 FR 29160, May 18, 1979.

73.4102 FAA COMMUNICATIONS, BROADCAST OF.

See Public Notice, FCC 72-105, dated February 2, 1972. 37 FR 3567, February 17, 1972. (Added 80-21, 2/8/80)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.4104 FM ASSIGNMENT POLICIES AND PROCEDURES.

See Report and Order, BC Docket 80-130, FCC 82-240, adopted May 20, 1982. 90 FCC 2d, 88; 47 FR 26625, June 21, 1982. (Edit. Amdt. 11/26/82)

73.4107 FM BROADCAST ASSIGNMENTS, INCREASING AVAILABILITY OF.

(a) See, First Report and Order, MM Docket 84-231, FCC 84-640, adopted December 19, 1984. 100 FCC 2d 1332; 50 FR 3514, January 25, ~~1985~~ 1994.

(b) See, Second Report and Order, MM Docket 84-231, FCC 85-124, adopted March 14, 1985. 101 FCC 2d 630; 50 FR 15558, April 19, 1985.

(c) See Memorandum Opinion and Order, MM Docket 84-231, FCC 86-76, adopted February 10, 1986. 51 FR 9210, March 18, 1986. (Edit. Amdt. 7/22/86)

(d) See Public Notice, 51 FR 26009, July 18, 1986.

73.4108 FM TRANSMITTER SITE MAP SUBMISSIONS.

See Memorandum Opinion and Order and Public Notice, adopted October 24, 1986. 1 FCC Rcd 381 (1986); 51 FR 45945, December 23, 1986. (Edit. Amdt. 4/10/87)

73.4110 FORMAT CHANGES OF STATIONS.

See Memorandum Opinion and Order, Docket 20682, FCC 76-744, adopted July 28, 1976. 60 FCC 2d 858; 41 FR 37153, September 2, 1976.

73.4135 INTERFERENCE TO TV RECEPTION BY FM STATIONS.

See Public Notice, FCC 67-1012, dated August 30, 1967. 74 FCC 2d 619. (Added 85-328, 6/30/85)

73.4140 MINORITY OWNERSHIP; TAX CERTIFICATES AND DISTRESS SALES.

(a) See Public Notice, FCC 78-322, dated May 25, 1978. 68 FCC 2d 979; 43 FR 25188, June 9, 1978.

(b) See Public Notice, FCC 78-725, dated October 11, 1978. 43 FR 47612. October 16, 1978.

(c) See Policy Statement, General Docket ~~82-207~~ 82-797, FCC 82-523, adopted December 2, 1982; 92 FCC 849; 48 FR 5943, February 9, 1983.

(d) See Report and Order, General Docket 82-797, FCC 84-647, adopted December 21, 1984. 99 FCC 2d 1249; 50 FR 1239, January 10, 1985. (Edit. Amdt. 4/10/87)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.4154 NETWORK/AM, FM STATION AFFILIATION AGREEMENTS.

See Report, Statement of Policy and Order, Docket 20721, FCC 77-206, adopted March 10, 1977. 63 FCC 2d 674. (Edit. Amdt. 7/7/82)

73.4157 NETWORK SIGNALS WHICH ADVERSELY AFFECT AFFILIATE BROADCAST SERVICE.

See Public Notice, FCC 79-387, dated April 20, 1970. 22 FCC 2d 779. (Added 80-21, 2/8/80)

73.4160 REMOVED.

73.4163 NONCOMMERCIAL NATURE OF EDUCATIONAL BROADCAST STATIONS.

(a) See Second Report and Order, BC Docket 21136, FCC 81-204, adopted April 23, 1981. 86 FCC 2d 141; 46 FR 27944, May 22, 1981. (Edit. Amdt. 8/22/84)

(b) See Order, BC Docket 21136, FCC 82-327*, adopted July 15, 1982. 90 FCC 2d 895; 47 FR 36171, August 19, 1982 (Edit. Amdt. 7/22/86)

(c) See Memorandum Opinion and Order, BC Docket 21136, FCC 84-105, adopted March 28, 1984. 97 FCC 2d 255; 49 FR 13534, April 5, 1984. (Edit. Amdt. 7/22/86)

(d) See, Public Notice, FCC 86-161, dated April 11, 1986. 51 FR 21800, June 16, 1986. Excerpt reprinted at 7 FCC Rcd 327.

(e) See Memorandum Opinion and Order, FCC 90-111, adopted March 28, 1990. 5 FCC Rcd 4920.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.4165 INDECENT BROADCASTS.

(a) See *FCC v. Pacifica Foundation*, 438 U.S. 726, 57 L.Ed 2d 1073, 46 U.S.L.W. 5018 (1978). See also *Action for Children's Television v. FCC*, 852 F.2d 1332 (D.C. Cir. 1988).

(b) See *Action for Children's Television v. FCC*, [ACT III] 11 F.3d 170 (D.C. Cir. 1993). See also, *Action for Children's Television v. FCC*, [ACT IV] 15 F.3d 186 (D.C. Cir. 1994), rehearing granted, en banc.

(c) See Report and Order, *GC Docket 92-223*, FCC 93-42, adopted January 19, 1993. 8 FCC Rcd 704; 58 FR 5937, January 25, 1993.

(d) See Memorandum Opinion and Order, FCC 93-246, adopted May 11, 1993, 8 FCC Rcd 3600.

(e) See Letter to Rusk Corporation, dated May 6, 1993, FCC 93-229, 8 FCC Rcd 3228.

(f) See Memorandum Opinion and Order, FCC 93-4, adopted January 5, 1993. 8 FCC Rcd 498

(g) See *Branton v. FCC*, 993 F.2d 906 (D.C. Cir. 1993).

(h) See Memorandum Opinion and Order, DA 91-557, adopted April 30, 1991. 6 FCC Rcd 2560.

73.4170 OBSCENE BROADCASTS.

(a) See *Miller v. California*, 413 U.S.C. 15 (1973). See also *Pope v. Illinois*, 107 S.Ct. 1918 (1987). 18 U.S.C. 1464.

(b) See Memorandum Opinion and Order, MM Docket 83-575, FCC 88-4, adopted January 12, 1988. 3 FCC Rcd 757. See also Memorandum Opinion and Order, MM Docket 83-575, FCC 93-180, adopted April 2, 1993. 8 FCC Rcd 2753.

(c) See Memorandum Opinion and Order, FCC 87-365, adopted November 24, 1987. 3 FCC 930.

(d) See "Memorandum of Understanding between the Federal Communications Commission and the Department of Justice concerning Complaints and Cases Involving Obscenity and Indecency," released April 9, 1991. See also News Release dated April 19, 1991.

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.4180 PAYMENT DISCLOSURE: PAYOLA, PLUGOLA, KICKBACKS.

(a) See 47 U.S.C. 507. (Edit. Amdt. 5/10/84)

(b) See Public Notice, FCC 70-593, dated June 4, 1970. 23 FCC 2d 588; 35 FR 9045, June 11, 1970. (Added 79-327, 6/29/79)

(c) See Public Notice, FCC 88-175, dated May 18, 1988.

73.4185 POLITICAL BROADCASTING AND TELECASTING, THE LAW OF.

(a) See "The Law of Political Broadcasting and Cablecasting: Political Primer 1984," 100 FCC 2d 1476 (1984).

(b) See Report and Order, MM Docket 91-168, FCC 91-403, adopted December 12, 1991. 7 FCC Rcd 678; 57 FR 189, January 3, 1992; Memorandum Opinion and Order, MM Docket 91-168, FCC 92-210, adopted May 14, 1992. 7 FCC Rcd 4611; 57 FR 27705, June 22, 1992.

73.4190 POLITICAL CANDIDATE AUTHORIZATION NOTICE AND SPONSORSHIP IDENTIFICATION.

(a) See Joint Public Notice by the Federal Communications Commission and the Federal Election Commission, FCC 78-419, dated June 19, 1978, 69 FCC 2d 1129; 43 FR 30126, July 13, 1978.

(b) See Memorandum Opinion and Order, FCC 92-55, adopted February 12, 1992. 7 FCC Rcd 1616.

73.4195 POLITICAL ADVERTISING BY UHF TRANSLATORS.

See Public Notice, FCC 76936, dated October 8, 1976. 62 FCC 2d 896; 41 FR 45043, October 14, 1976. (Added 79-327, 6/29/79)

73.4210 PROCEDURE MANUAL: "THE PUBLIC AND BROADCASTING".

See FCC 74-942, dated September 5, 1974. 49 FCC 2d 1; 39 FR 32288, dated September 5, 1974. (Added 79-327, 6/29/79)

73.4215 PROGRAM MATTER: SUPPLIER IDENTIFICATION.

See Public Notice, FCC 73-595, dated June 1, 1973. 41 FCC 2d 333; 38 FR 14979, June 7, 1973. (Added 79-327, 6/29/79)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.4235 ~~[REMOVED] SHORT SPACING AGREEMENTS: FM STATIONS.~~

~~See Public Notice, FCC 75-1367, dated December 15, 1975. 57 FCC 2d 1263; 40 FR 58893, December 19, 1975.~~

73.4242 **SPONSORSHIP IDENTIFICATION RULES, APPLICABILITY OF.**

See Public Notice dated September 3, 1975, 40 FR 41936, September 9, 1975. (Edit. Amdt. 7/7/82)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.4246 STEREOPHONIC PILOT SUBCARRIER USE DURING MONOPHONIC PROGRAMMING.

See Report and Order, Docket 19571, FCC 73-680, adopted June 21, 1973. 41 FCC 2d 534; 38 FR 17021, June 28, 1973. (Added 82-25, 3/5/82)

73.4247 STV: COMPETING APPLICATIONS.

See Second Report and Order, Docket 21502, FCC 81-13, adopted January 8, 1981. 85 FCC 2d 631; 46 FR 19937, April 2, 1981. (Added 82-25, 3/5/82)

73.4250 SUBLIMINAL PERCEPTION.

(a) See Public Notice, FCC 74-78, dated January 24, 1974. 44 FCC 2d 1016; 39 FR 3714, January 29, 1974.

(b) See FCC Information Bulletin, "Subliminal Projection", dated November, 1977.

73.4255 TAX CERTIFICATES: ISSUANCE OF.

(a) See Public Notice, FCC 76-337, dated April 21, 1976, 59 FCC 2d 91; 41 FR 17605, April 27, 1976. 6 FCC Rcd 6273; 56 FR 64842, December 12, 1991.

(b) See Report and Order MM Docket 87-267, FCC 91-303 adopted, September 26, 1991.

73.4260 TEASER ANNOUNCEMENTS.

See Public Notice, FCC 62-592, dated June 1, 1962. 27 FR 5274, June 5, 1962.

73.4265 TELEPHONE CONVERSATION BROADCASTS (NETWORK AND LIKE SOURCES).

See Memorandum Opinion and Order, FCC 75-1406, adopted December 18, 1975. 57 FCC 2d 334; 41 FR 816, January 5, 1976.

73.4266 TENDER OFFER AND PROXY STATEMENTS.

See POLICY STATEMENT, MM Docket 85-218, FCC 86-67, adopted January 30, 1986. 51 FR 9794, March 21, 1986. (Edit. Amdt. 7/22/86)

FEDERAL COMMUNICATIONS COMMISSION RULES - PART 73

73.4267 TIME BROKERAGE.

(a) See Policy Statement, Docket 78-355, FCC 80-621, adopted October 21, 1980. 82 FCC 2d 107.

(b) See Report and Order, MM Docket 91-140, FCC 92-97, adopted March 12, 1992. 7 FCC Rcd 2755; 57 FR 18089, April 29, 1992.

(c) See Memorandum Opinion and Order and Further Notice of Proposed Rule Making, MM Docket 91-140, FCC 92-361, adopted August 5, 1992. 7 FCC Rcd 6387; 57 FR 42701, September 16, 1992.

73.4272 [DELETED].**73.4275 TONE CLUSTERS: AUDIO ATTENTION GETTING DEVICES.**

See Public Notice, FCC 76-610, dated July 2, 1976. 60 FCC 2d 920; 41 FR 28582, July 12, 1976.

73.4280 CHARACTER EVALUATION OF BROADCAST APPLICANTS.

(a) See Report and Order and Policy Statement, Gen. Docket 81-500, BC Docket 78-108, FCC 85-648, adopted December 10, 1985. 102 FCC 2d 1179; 51 FR 3049, January 23, 1986.

(b) See Policy Statement and Order, FCC 90-195, adopted May 10, 1990. 5 FCC Rcd 3252, 55 FR 23082, June 6, 1990.

(c) See Memorandum Opinion and Order, FCC 91-146, adopted May 1, 1991. 6 FCC Rcd 3448, 56 FR 25633, June 5, 1991.

(d) See Memorandum Opinion and Order, FCC 92-448, adopted September 18, 1992. 7 FCC Rcd 6564, 57 FR 47410, October 16, 1992.

END OF PART 73



RULES SERVICE COMPANY

7615 Standish Place Rockville, Maryland 20855
(301)424-9402, (301)762-7853 (Fax)

Please place this list in the front of your rule book.

FEDERAL COMMUNICATIONS COMMISSION RULES INFORMATION LIST

Federal Communications Commission (main office)
1919 M Street NW
Washington, DC 20554
1-202-419-0190

US Government Printing Office
Superintendent of Documents
Washington, DC 20402
1-202-512-1800 (order desk)

Office of the Federal Register
Director, National Archives
Records Administration
Washington, DC 20408
1-202-523-3517

National Association of Broadcasters
1771 N Street NW
Washington, DC 20036
1-202-429-5346

International Transcription Service
2100 M Street NW #140
Washington, DC 20037
1-202-857-3800 (Complete text of rule changes)

Frequency List Allotments
FCC Allocation Branch
1-202-776-1660

FCC Licensing Fees and Forms
1-202-418-0192 (Fees)
1-202-418-FORM (Forms)

BROADCAST PHONE NUMBERS 1-202-418-2600 (General)

AM - 1-202-418-2670 FM - 1-202-418-2720
LPTV - 1-202-418-1640 Translator - 1-202-418-1690
Rule Interpretation- 1-202-776-1653 TV - 1-202-418-1600
Policies (i.e. §73.4180, ref. to 47 USC 507) 1-202-739-0773
Auxiliary Services - 1-800-322-1117

WIRELESS TELECOMMUNICATIONS BUREAU

Licensing Questions 1-800-322-1117 Rule Questions 1-202-418-0620
Compliance Branch 1-202-418-1150

Office of Engr and Tech - 1-202-739-0700
Emergency Notification System (formally EBS) 1-202-418-1220
Satellite Uplink Licensing 1-202-739-0735