



# DX NEWS

*the magazine of the  
National Radio Club*  
— SINCE 1933 —

VOLUME 51 ISSUE 12 JANUARY 2, 1984

Welcome to 1984!! Let's hope this new year brings peace throughout the world before this year comes to an end. Onward....

THANKS WLS and KBYE for the GREAT monday morning (the 19th). Thanks to WLS for the two minute salute to the NRC, it was greatly appreciated. And thanks to KBYE for mentioning the NRC throughout the special equipment test. Thanks to Al Resnick for arranging the entire morning. Hope he didn't freeze out there while working on the equipment, hi. And thanks to the members who called KBYE and showed your support for the test and the NRC! Thanks.

50th Anniversary Shirts Word from J. Starr is that all those that ordered shirts should have theirs by the 15th. If not let us know and we shall see what happened to them. For those that have waited patiently...thanks.

From the Opps! Department: We listed a few issues back the address for RADIOPHILES, with the wrong Post Office Box. The correct address is: P.O.Box 548381, Houston, TX 77254. Sorry.

DUSTY DIALS, another new column makes its debut. Authored by Tom Farmerie, it shall run semi-regular and contain tidbits, stories, etc on radio subjects that took place back in the early radio days. Hope you enjoy it. You'll find it on page 33.

ADDITIONS/CORRECTIONS to the 50th Anniversary Book can be found on page 33.

Per Ron Schatz comes word that WKZY 770 10kw D/1kw is on the air, as of Dec 17. Their address: 3448 Marinatown Lane NW, N. Fort Myers, FL 33983

FOR SALE: Hammarlund HQ-100, little used. Asking \$250 Write to: Arlo Pelley, 1998 8th Ave., Marion, IA 52382, Or call (NO COLLECTS): 319-377-7119.

REMINDER: For those of you that write overseas, we remind you that all the clubs within ANARC, of which we are part, have agreed to protest those countries that continue to practice intentional jamming. We ask that you either not write to those countries anymore, or if you do, please send along with your correspondence a protest to their continued practice of intentional jamming. Thank you.

Below you shall find the remaining Publishing Schedule for Volume 51, I had ment to have ran it a few issues back but I forgot. Sorry. I hope everyone knew that they were not suppose to get an issue last week.

#### Publishing Schedule for Volume 51:

ISSUE	MASTHEAD DATE	PUB SESSION DATE	ISSUE	MASTHEAD DATE	PUB DATE
13	JANUARY 9	JANUARY 1	22	MARCH 12	MARCH 4
14	JANUARY 16	JANUARY 8	23	MARCH 19	MARCH 11
15	JANUARY 23	JANUARY 15	24	APRIL 2	MARCH 25
16	JANUARY 30	JANUARY 22	25	APRIL 16	APRIL 8
17	FEBRUARY 6	JANUARY 29	26	MAY 7	APRIL 29
18	FEBRUARY 13	FEBRUARY 5	27	JUNE 11	JUNE 3
19	FEBRUARY 20	FEBRUARY 12	28	JULY 16	JULY 8
20	FEBRUARY 27	FEBRUARY 19	29	AUGUST 20	AUGUST 12
21	MARCH 5	FEBRUARY 26	30	SEPTEMBER 24	SEPT 16

## LOOK INSIDE

2....AM SWITCH  
3....DDXD  
11....DXD  
14...CONTEST

15....PSSA:DILEMMA ?  
17....FCC NEWS RELEASE  
18....RAMBLIN' BACK  
19....ASSBY OF APT-2

25....USING THE APT-2  
28....AM STEREO  
33....DUSTY DIALS  
35....HQ-100 ALIGNMENT  
38....MUSINGS

**THE WORLD'S OLDEST AND LARGEST ALL MEDIUM-WAVE DX CLUB**



# AM SWITCH

JERRY STARR  
C/O WSRD RADIO  
401 N. BLAINE AVENUE  
YOUNGSTOWN, OHIO 44505

### CALL LETTER APPLICATIONS

Present call:	Seeks:
1130 WBTZ PA Waynesboro	WEED
1170 *New NC Claremont	WCXN
1280 KVOV NV Henderson	KREL
1300 WLUV TN Nashville	WNQM

### CALL LETTER GRANTS

Old call:	New call:
830 *New MI Marshall	WMMI
930 WFSR IL Aurora	WKKD
1120 WIZY GA Gordon	WQXM
1170 KQKI LA Bayou Vista	KDLP
1330 WSWL FL Milton	WAWX
1460 KWAZ TX Lubbock	KTLK

### APPLICATIONS FOR NEW STATIONS

1040 SC Columbia: 50000 D1  
1090 VI Charlotte Amalie: 250 D1

### GRANTS FOR NEW STATIONS

660 AZ Window Rock: 50000/50000 U2 (QTH: Box 308, Window Rock, AZ 86515)  
1460 NJ Mount Holly: 5000 D3 (replaces the deleted WJJZ)

### APPLICATIONS FROM EXISTING FACILITIES

860 WHRT AL Hartselle: frequency to 730 kHz, power to 500 D1  
930 WKXY FL Sarasota: to 5000/5000 U2  
1010 KRKX OR Milwaukie: power to 5000 (250 CH)  
1130 WSJP KY Murray: change day power to 2500, DA to U4  
1260 WQIS MS Laurel: frequency to 890 kHz, power to 10000 D1, move XR  
1340 WKSX NY Jamestown: day power to 500  
1550 WLUX LA Baton Rouge: add 5000 watts night, become U-2, move XR

### GRANTS TO EXISTING FACILITIES

690 KZKZ AZ Flagstaff: relocate XR  
910 WKEQ KY Burnside: relocate XR  
980 KUTI WA Selah: relocate night XR  
1010 WBIX FL Jacksonville Beach: FCC RETURNED application for fulltime  
1440 KHOG AR Fayetteville: to 1040 kHz 10000/1000 U2, move to Farmington, AR  
1480 WSDS MI Ypsilanti: increase day power to 1000, add 5000 nights, U4  
1490 WACM MA West Springfield: changes from DA to non-DA day power  
1570 KXES CA Salinas: relocate XR

### COMMENTS, CORRECTIONS, FILLER, BROADCASTING MAGAZINE MISTAKES, ETC

540 \*New CA Hesperia: is D3, not D1 as previously listed  
600 KIIIX CO Fort Collins: fulltime grant included a move to Wellington, CO  
1020 WJEP GA Ochlocknee: despite numerous entries in Broadcasting concerning this station, it is in GA, not FL. Will be Rel/Gos  
1200 \*New CA Rancho Mirage: change antenna mode to U4  
\*New KY Radcliffe: is NOT on 1220 despite what Broadcasting printed and as reported here last issue. It IS on 1200 with 5000/5000 U2  
1340 WKSX NY Jamestown: Interesting bit of history in reference to the above application for daytime power increase to 500 watts...Back in 1960 when the Class IV stations were first permitted to raise daytime power to 1000 watts, a very few stations in the country were too close together to meet the minimum interference contours. WKSX and WKRZ (now WOYL) Oil City, PA were two such stations. WKRZ took the initiative and applied for, and was granted a license to become the first DIRECTIONAL graveyard channel station. Their simple 2-tower system (which still operates today) pulled in their 1000 watt signal to the previous 250 watt contour toward Jamestown. However, WKSX would have to also install a DA to raise power. They opted to remain at 250 watts and, today, are one of the very few Class IV stations in the country to still operate with low power in the daytime. They now evidently feel that they can squeeze in an increase to 500 watts and remain non-DA.

More if it happens,

*Jerry Starr*

Jerry Starr & Buffalo K. Foonman (our 50th A.M.S.)

FLASH...BULLETIN...The FCC announced today (12/2/83) that Canada has given the go-ahead and has agreed to sign the permit necessary for the FCC to implement the Post Sunset Authority. Therefore, all stations holding PSSA licenses may start using these authorizations immediately! Look for these to be popping up soon. Any station operating with post-sunset hours with a daytime license before 12/2/83 has been in violation of the rules. I've had a chance to look at the FCC paperwork on the PSSA situation and it is, in a word, a mess! A companion piece on this situation will appear here in DX News.

# DOMESTIC DX DIGEST

DAVE SCHMIDT  
42 CREWYNNE RD.  
CASTLE HILLS  
NEW CASTLE, DE 19720

Here is the official DX column which is almost as exciting as listening to Doris Day records! When sending your items in, please keep them on one side of the paper, type or neatly write, LST, skip a line between items, etc. And after our break, a nice sized column to start off the new year!

### SPECIAL:

570 JKX NB ED MUNDSTO - 12/4 2145 w/news in french up til s/off w/Ok Canada, evidently not AN on AM or off AN sked. (VX-CT)  
700 WCAT MA ORANGES - 11/29 0649 noted w/announcement for early s/on during bad weather conditions, 0600 s/on. (KAX-M)  
1170 WXXA SC LEXINGTON - 12/17 0150-0215+ ET w/for/CA/Inter. music, no breaks other than ID 0200. Fair/good w/null on WVA. (DS-Ds)  
WAAA TN DONALDSON - Add.: 1617 Lebanon Road, Nashville 37210 per recent verie. (JA-PA)  
1200 KPNV ND F. FARGO - for v/l and program schedule, add.: Box 6038, Fargo 58108, sked. 0430-2300 7 days a week, also mentioning "We welcome visitors!" w/directions given! (DS-Ds)  
1260 WORT AL BIRMINGHAM - Add.: 244 Jooswin Great Drive, Crest Building, Suite G-1260, 35209 per v/l. (DS-Ds) ditto, per info. (JM-PA)  
1310 WNSY VA NEWPORT NEWS - Add.: 2302 S. Mercury Blvd, Hampton 23666 per v/l. (JA-MJ)  
1430 WEXN FL LAKEBLAND - 12/6 0226 very good w/PA and for music, ex-WJFD. (JX)  
1450 WJIN NJ ATLANTIC CITY - 11/27 0615-0630 on top of freq. w/gospel music CBS sports, weather, clustered ads, add.: 2707 Atlantic Avenue, 08401. (X-PA)  
WPAW PA POTTSVILLE - 11/27 0658 (Sunday AM) noted w/full data s/on, so is not on 24 hours. (XG-PA)  
WBJM CT BUCKINGHAM - 12/2 0005-0030 noted on ET w/rock music, many ID's and requesting reports. (JS-OR)  
1510 KCOV MO INDEPENDENCE - 12/4 1758-1800 fading up w/good signal o/WLAC w/religious program and lon, s/off mentioning Bible Study Radio and power of 10000 watts. (JM-PA) Log lists 1000 watts.

### DX TESTS:

1140 WJMT Heard: SP-NJ  
WASS Strong at times w/modern religious music, long ID's, period of tone noted, slight WDSL-1150 splash. (DS-Ds)

### FREQ. CHECKS:

1st Sat....KZUL-1380 w/TT 0200-0215, voice ID at start and end. (JFH-OK)  
KYCA-1490 w/TT 0218-0224, voice ID. (JFH-OK)  
1st Mon....KFGY-1260 0202-0209 w/TT, phonetic ID at end. (JFH-OK)  
KILB-1400 w/TT, ID's 0110-0126 tuneout. (JFH-OK)  
KCUZ-1490 w/TT, voice ID's 0215-0230. (JFH-OK)  
4th Mon....KPOK-1340 0200-0207 poor/fair w/TT/ID. (RK-IL)

### MIDDAY - MIDNIGHT:

540 WDMV MD POCONOKS CITY - 11/13 1634-1640 fair w/ID, ads during, break in Colts football. (BH-NJ)  
KNAK UT DELTA - 11/30 1645-1850 atop w/CW music, ID. (DKE-CA)  
KMMT IA FORT DODGE - 12/4 1738-1745 good/steady signal w/s/off, first time noted w/CBS/WARO. (JK-MB) Yeah, that was a good eve!(DS)  
WARD PA CANONSBURG - 12/3 1740 per anc't, noted on post sunset power, signal holds up well, s/off 1800. (JM-PA)  
550 WKRC OH CINCINNATI - 11/23 1721-1724 briefly atop w/Top 40 oldie and ID as "55 KRC". (BH-NJ)  
WSVA VA HARRISONBURG - 11/26 1654-1700 poor w/MOR song, ammt. of power cut then gone. (BH-NJ) Cut's like a knife! (DS)  
WDAV VT WATERBURY - 12/3 1602-1614 fair w/UPI news, Top 40/MOR music, lost at apparent power cut. (BH-NJ) Does that happen often?  
KSD MO ST LOUIS - 12/4 1740 atop freq., o/for w/ID, great conditions to west this evening! (JK-MB)  
560 WFRB ND FROSTBURG - 12/3 1621-1700 good way o/WFIL w/Top 56 Countdown of CW songs, local news, full data s/off w/mention of 105.3 FM. (BH-NJ) Fair in WFIL's null here days. (DS)  
WBBQ TN MEMPHIS - 12/4 1725 good w/Talk Radio ID and phone #. (JY-PA)  
570 WMAX SD YANKTON - 12/4 1750-1758 very nicely atop at tune in w/old CW music, time checks (CST) and ID's, faded down by news at top of hour, either UPI or AP. (DS-Ds)

WHO BROADCASTING COMPANY  
100 WALNUT STREET  
DES MOINES, IOWA 50308

# KCEY



# WKIX

RADIO 85 10,000 WATTS

ALLEGHENY  
MOUNTAIN NETWORK  
BOX 247 - TYRONE, PA. 16886



580 WDBO IL ORLANDO - 11/16 1704-1708 poor w/333 news, "Information Center" local news w/ID. (14-15)

610 WABC NY CHARLESTON - 11/30 2055 o/Top 40 w/33 music, 333 news. (10-11)

620 WDCB NC RUSSELLVILLE - 12/4 1800 fair w/TP w/"Harve" ID, local 1 and TR news. (14-15)

640 WDCB TN DURHAM - 11/21 1658-1700 good w/ads, talk, ID. (14-15)

640 WDCB TN COLLETSVILLE - 11/27 1750-1800 way o/all w/weather, ad, religious music, min.in. 1 and "Victory Radio" slogan, gone at pattern/power change. (14-15)

680 WGAN NY CHARLESTON - 12/4 1698 best signal, 3. music, ID. (14-15)

680 WPIF NY RALIGH - 11/21 1653-1656 w/333A w/talk, music, ID. (14-15)

680 WQMY GA ATLANTA - 12/4 2105-2135 w/333 news, local ad and ID, no sign of WRMO. (14-15) Does like to, "monkeys!" (14)

690 WVOX AL BIRMINGHAM - 12/4 1715-1730 2. music, ID's as "The Mighty 690". (14-15) So did EXTRA years ago! (14)

WFLD WV FISLER - 12/4 1638-1655 ads, PCHS, program from WVA University, all w/good signal. (14-15)

730 WPTT PA PITTSBURGH - 12/3 1659 very good/strong, w/KRAG w/s/off. (KAZ)

WRAK PA HANNOVER - 12/5 1700 taking advantage of new 333 post-sunset rules, only local noted doing it thus far, reg. s/off was 1645 this month. (14-15)

740 WBY2 TN HARRISBURG - 11/23 1720-1730 o/all at tun. in w/333A increasing until s/off w/Satellite sports, 3 music, ads, power given as 1000 watts, no 333. ID's as "Tri States New Tradition". (14-15)

800 WSV5 VA CROZET - 11/27 1642 very good w/ID and ad. (KAZ-14)

810 UNID 11/27 1614 briefly w/333 ending Redskins football and ad mentioning Edgemoor, INCA Almanac lists WDCB as running the skins but call to station nets "They no longer carry it". Help requested. (KAZ-14) Two doors down, make a left... (14)

WPEL VA CROZET - 12/3 1700 poor/fair w/333 w/s/off, didn't sound like WPEL but clear mention of Crozet heard. (KAZ-14) No change in my record here yet.... (14)

820 WUSU OH COLUMBUS - 12/1 1800 good w/333A promo, ID, AP news w/333A a weak second. (14-15) 333A was sort of limp, eh? (14)

860 KOSE AR OSGEOLE - 12/4 1726-1735 very good o/333A w/33 music, ID, PCH and weather report. (KZ-14)

870 WFTL NC KANAWHAH - 11/27 1606 fair w/ID w/333A/WPEL. (K Z-14)

880 WRPD OH WORTHINGTON - 12/3 1540 good o/333A w/ID and time check, this is sometimes w/333 all day! (KAZ-14)

900 WXPB FL Ocala - 12/8 1725 good w/news, weather. (14-15)

900 WXPB FL HAMILTON - 11/16 2205 w/Toronto NHL hockey. (14-15)....12/1 1757 good w/Christmas promo, pop music. (14-15)

WFLW PA PHILADELPHIA - 11/27 1638 xint, way atop w/talk line program and ID. (KAZ-14) DA favors ad, very weak w/333 here. (14)

910 WUPG TN S. PITTSBURG - 12/8 1705-1709 good w/others w/weather, ads, jingle and CW music, evidently now on 5000 watts. (14-15)

920 WBA4 IN W. LAFAYETTE - 12/8 1634-1657 very good w/fades w/local news, Historic Homes program, stock report then gone. (14-15)

WMLL FL MELBOURNE - 12/8 1722 fair w/ads, ID. (14-15)

930 WSEV TN SEVIERVILLE - 12/8 1621 very good between ENT w/local ads, CW music. (14-15) My closest unheard! (14-15)

WHTT WV HUNTINGTON - 12/8 1621-1645 xint w/fades w/local sports, ads, and CW music. (14-15)

940 WOPC MS HOUSTON - 11/27 1800 good o/333A w/legal ID just before power out. (KAZ-14)....12/4 1745 strong o/Canadian, ending "Back To The Bible" program, CST time check, sports. (14-15)

950 WQBE WV CHARLESTON - 12/3 1620-1710 CW music, ABC info. news, well atop WPEL. (14-15)

960 WSBT IN SOUTH BEND - 12/4 1705 end of news, weather from broadcast Center, promo/ID for "The Soft Hits You Like", instr. selection and gone, strong, til fading. (14-15)

980 KFWJ AZ LAKE HAVASU CITY - 12/7 1920-1931 in/out w/KUPI/XVLY w/CW gospel music, full data s/off w/instr. 558. (14-15)

990 CWV IA WINNIPESAU - 12/3 2339-2342 good mainly o/333A w/several CBC radio programs into talk program. (KAZ-14)....12/4 1850 w/CBC net. program o/WZZD/WKXK, not common at sunset. (14-15)

1040 KPBC TX DALLAS - 11/24 1830 good w/s/off, no 333. (14-15)

1050 KSTO OK TULSA - 11/24 1814 good w/s/off, no 333. (14-15)

WNN NY NEW YORK - 12/1 1753 fair o/CHAMP w/mention of space shuttle, CW music, best signal yet on this guy! (14-15)

1060 WNCI IL JOLIET - 12/4 1726 very strong w/CW music, amazing KYW, female ans'r, ID. (14-15)

WQW LA NEW ORLEANS - 12/4 1951 way o/333A w/CW music, weather and fair ground report, mix up w/power out times. (14-15)

1080 KVNI ID COUSER DALENS - 12/6 1915 atop w/Spokane ads, ID, CW music, again 12/7 1848-1852 o/333A/WKXJ w/Spokane ads. (14-15)

1080 WJII MI BOURNEMOUTH - 12/4 1718 3. music, female ans, ID's as "KX 1080" but call sounded like WJII, no 333. (14-15)

1090 KIAM VA SAFFOLD - 12/6 1907-1915 female ans'r w/news, ads o/333A/KXOZ w/333A from WFAA. (14-15)

1120 WYMG OH MANTONVILLE - 12/1 1649-1658 o/YACQ w/clustered ans, 3 music, announcement of program tests and full data s/off, no 333. (14-15)

WPGT SC COLUMBIA - 12/1 1640-1645 very good w/religious program into full data s/off on classic gospel anth. (14-15)

1150 WESJ ME ST. JOHNS - 11/23 2300 poor w/ID thru 333. (14-15)

1170 WYRK NY DOUGLASS BRIDGE - 12/3 1627 fair w/333A null'd w/ID and 333 instr. selection. (KAZ-14)

1180 WYUU GA WASSON - 11/11 2000 w/33, talk program, in the clear. (14-15)

WYUU GA JACKSONVILLE - 12/4 1703 clear in 333 null w/ad, ID, 333 type music. (14-15)

1190 WYVO IN BIRMINGHAM - 11/26 1700 poor w/UNIL TK station w/ID, 333 news. (14-15)

WYVO IN ANNAPOLIS - 12/1 1552-1628 in wall w/333A music, ads, "Happy Adams Know", fading to 333. (14-15) That cat has been on there for many years! (14)

WYVB NY NEW YORK - 12/1 1653-1654 fading in just o/333A w/local ans, mention of Brooklyn. (14-15)

WYVB NY MISSISSAUGA - 12/1 1659 sneaking thru 333 w/promo for business Opportunity show, ID. (14-15)

1200 WYUU MD S. WASSON - 12/4 1730-1745 w/ID, religious program up till pattern change. (14-15)....12/4 1728-1745 w/Christmas Hymns, ID and time check into religious program, very strong w/slight fading, gone at pattern change. (14-15) (ea, I tipped the WYU off on this one for those who are playing detective-hi! (14)

1210 WDBR GA DANLONGA - 12/3 1715-1730 in 333A partial null w/CW music, s/off, "Dixie" vocal version noted, thought they were on till 2300. (14-15) That balloon broke last week! (14)

WDBR GA SARGENT - 12/1 1659 w/ID into rock music. (14-15)....12/4 1645-1700 w/rock oldies, ID, ads and very brief s/off w/333A null'd. (14-15)

WILX IL SPRINGFIELD - 12/4 1728 noted w/s/off w/333A. (14-15)....12/4 1705-1725 w/end of AI news, weather, AI sports, 333 music, faded to UNID 3. music. (14-15)

1220 WJOC AB LECHESBURG - 11/7 1957 ID then faded down. (14-15)

WJOC GA PAGO ALTO - 11/11 1945 fair w/classical music, ID. (14-15) (14-15)

WJOC GA HAZDEN - 11/27 1630 faint but clear w/s/off after WJOC s/off.

WJOC GA SAFFORD - 12/4 1441 w/ID noted w/333A. (14-15)

12/4 1648 religious fund raiser w/mention of pledges from IN, phone # given was 883-2797. (14-15) WJOC maybe! (14)

WJOC GA AGUI - 12/4 1650 french talk, rock music, ryming french ID "OPPM 123". (14-15) Is that the correct freq. (14)

WJOC GA SHAWINGAN FALLS - 11/28 2225 alone w/ads, rock music, quick ID noted in passing. (14-15)

WJOC TN LEITCHBURG - 11/26 1807 fair/good in WJAR null w/333A football, ID, on way past sunset, new post sunset authority. (14-15) likely.

WJOC NC WITWILLS - 12/3 1700 noted w/s/off. (14-15)

1230 WJOC PA DOVER - 11/23 2338 very weak in hash w/ID. (14-15)

1240 WJOC GA SAN DIEGO - 12/6 2000 atop w/333A news, ID, ads, w/333A and 190 others! (14-15) You have a magic counter or something?

WTON VA STAUNTON - 12/15 2355 strangely atop w/basketball game promo, ID and 333 music. (14-15)

1250 WJOC PA PITTSBURGH - 11/7 2007 weather, ID, rock oldies. (14-15) My closest unheard! (14-15)

WTOX XI SAE CITY - 12/4 1700 up out of mess w/s/off, full data given, "Serving the Tri Cities from Jay City". (14-15)

1260 WJOC MO SPRINGFIELD - 11/10 1857 ID then 333 record. (14-15)

WJOC MI BLACK RIVER FALLS - 11/25 1744 good w/s/off, no 333. (14-15)

WJOC MI HURCHINSON - 12/1 1846-1852 fair w/news, ID then faded out. (14-15)

1280 WJOC PA HAZDEN - 11/22 1715-1716 fair w/333A, weather, ID. (14-15)

1290 WJOC GA SAVANNAH - 11/6 1716-1731 fair w/Top 40 music, jingle/ID. (14-15)

WJOC NY BENTON - 12/3 1742 xint w/Road Show, news and weather til s/off. (14-15)

1300 WJOC OH DAYTON - 11/23 2210 ID then 333/rock oldie. (14-15)

WJOC PA W. HAZELTON - 11/6 1526-1531 briefly atop w/Top 40 oldies and ID as "All Hit Music". (14-15) Still off freq., too! (14)

WJOC VA QUINCY - 12/3 1600 barely thru WAVE w/ID, news. (14-15)

1310 WJOC VA NEWPORT NEWS - 11/6 1633-1700 very good w/Top 40 oldies, "Good Old Rock and Roll" slogan, ID as "Newport News, Norfolk" and gone at pattern change. (14-15)

WJOC MI DARBORN - 12/3 1728 good w/ID, last heard in '63 as WJOC (14)



1320 WJEX FL JACKSONVILLE - 11/24 1803 fair w/snacks, givin' Miss and ID, ex-WFOJ. (SP-NJ)....12/7 1815-1840 strong in KAP's null w/CS music, ads, news, weather, lost son report, female anc'r, frequent ID's, KAKI-1280 had been KJIK years back! (KX-DE)

1330 WFLA SC DONALDSON - 11/16 1710-1741 fair w/3 music, ID, ad. (SP-NJ)

WFLA FL BYANNTON - 12/4 1646 religious program, bible quote, Gnicca, o area temp's, in null of stronger WJIB. (JN-NY)

WFLA FL GARDNER - 12/3 1706-1715 way o/all w/mutual network programs, clustered ads, weather from Tri Cities National Weather Service mixing, w/NEWS at s/off, no SSS. (KX-DE)

1360 WCHL NC CHAPLAIN HILL - 11/11 1553-1613 good w/Top 40 music, Mutual news, ID w/"Non Stop" slogan. (S-I-NJ)

1370 WCOA FL PENNSACOLA - 12/7 1735-1750 on top w/ads, pop music, time check, ID and editorial. (KX-PA) Used to send a bag of sand with their veries! Did wonders to postal cancelling machines! (DE)

WTKR NY ROCHESPER - 12/3 1740-1806 CW music, ID's as "1970 Country Magic", in unusually well, WFA usually top here at nite. (TF)

WALK NY PATRICKSON - 12/5 1757 in/out strong on channel w/CS music, report on road conditions, new FCC hours in effect. (HJ-PA)

1380 WTVR VA RICHMOND - 12/4 1640 CW music, request for comments written to station address, "WTVR, the AM Country". (JN-NY)

WXIC OH WAVERLY - 12/1 1720 noted w/full data s/off. (JN-PA)

WIZO TN FRANKLIN - 12/3 1751 good w/local ads, weather scan report w/tornado warning. (JN-NY)

1390 KHOB NM HIBBS - 12/1 1807-1817 fair w/local news, ID then faded to KCRC/KMRY/KXVY. (JPH-OK)

1400 WILL CT WILLIAMATIC - 11/29 2250 a complete shocker w/ID and what sounded to be Top 40 music. (KX-IL)

1410 WBLM NY ELMIRA - 11/24 1900 weak w/WDOV/WTOP w/PSA, ID. (SP-NJ)

WVEG WV N. LAS VEGAS - 12/7 1937 atop w/local traffic conditions, heavy splash from local KR3-1400. (DKK-CA)

WCOLO KS LEAVENWORTH - 12/8 1746 fair/good w/CS music, PSA, ads and "Country 1410" slogan, o/KRCS. (JPH-OK)

1420 WIMS IN MICHIGAN CITY - 12/4 1715 holding channel to itself, noted w/ID in passing. (JH-PA)

1430 WJNR NJ NEWARK - 11/30 1922-1927 clear w/ads, ID, music then suddenly gone. (POC-NJ) My closest unheard! (DE-NJ)

WVVA FL PANAMA CITY - 11/24 1849-1851 good w/ads, 3W, ID, CS music. (SP)

WDEX NC MONROE - 12/3 1747-1757 alone w/clustered ads, weather, pop music, again 12/4 1755-1803, seems to be late w/pattern changes. (KX-PA) And veries, too! (DS)

1440 UNID 11/21 2208 weak w/WRO w/time check, call sounded like WBTA, who's this? (SP-NJ)

1450 WMYB SC JYRLE BEACH - 11/15 1734-1735 good w/ad, promo for "Swap Shop", into jingle/music, only my 2nd graveyard, I don't try very hard! (SP-NJ) Yes, we've noticed! (DE)

1460 CKRB PC ST GEORGE'S DE BEAUCHE - 12/4 1943 very good w/fast talking, French female DJ, english rock music. (JN-PA)

1470 KLCI LA LAKE CHARLES - 11/28 2023 surprised to hear this u/SHOW/CKO w/ID, SSAN has no place to be heard! (JX-MD) Lucky....

1480 WANE NC CHARLOTTE - 12/1, 12/3 1800-2000 At times, strong o/local WHEB w/Christian programs, music, AP and local news, talk show and ID as "Sunlife Radio". (JN-PA)

WISL PA SHAMOKIN - 12/1 1755+ xint o/WHEB w/ads, news, weather, stock report, MoR music. (JN-PA)

1500 WFIF CT HEPFORD - 12/4 1530 clear w/religious program o/WTOP. (POC-NJ)

UNID 12/3 2209 someone here w/Spanish program taru nulled WTOP, lively Spanish music and "Boste Navidad", sounds like possible US station, did a GA or FL station go Spanish here? (KAZ-DE) No fulltimers in GA here, Key West has never been reported in this column. (DE)

1510 WKAI IL MACOMB - 12/4 1740-1745 fair, even w/WLAC w/possible religious program til s/off, fade. (JN-PA)

WJRS PQ SHERBROOK - 12/4 1930 way o/WLAC w/French ad for cigarettes and jingle/ID. (JN-PA) The unmarked variety! (DE)

1520 WGNB FL INDIAN ROCKS BEACH - 11/18 1743-1744 fair w/religious music, no mention of "Beach" in ID, did say 152 on AM Band and asked listeners to tune in 102 PM, I didn't! (SP-NJ) 810! (DE)

WARR NC WARRENTON - 12/4 1700 briefly atop w/s/off w/owner info. (SH)

1530 WFTZ VA QUANTICO - 11/22 1654 fair w/ads, talk, ID. (SP-NJ)

WASO SC SPARTANBURG - 11/15 1729 good w/s/off, no WCKY. (SP-NJ)

WOTR MD CLESTERBURN - 11/15 1730 weak w/ID after WASO s/off. (SP-NJ)

WRBX NC CHAPEL HILL - 12/4 1638-1657 fair w/CS music, female anc'r, "top of the country" slogan and "triangle area" weather. (R-I-NJ)

**KWOS RADIO**  
217 East McCarty  
P.O. Box 478  
JEFFERSON CITY, MISSOURI 65102



**KMPL AM 1520**  
**KSTG FM 97**  
100 South Kingshighway - P.O. Box 501  
Shelton, Missouri 63081

1530 WRAV GA AUGUST - 12/3 1732 jingle/ID after 533 news in WCKY null, power is 500 watts post-sunset per call. (KAZ-DE)....12/10 1713-1800 atop w/no WCKY til s/off, called station and anc'r seemed unimpressed on signal distance, said they were on new extended hours, should make it an easy log. (JN-DE)

1540 WYND GA JAYNESVILLE - 11/21 1714 weak w/s/off. (SP-NJ)

WYND NC JAYNESVILLE - 12/3 1711 fair w/mention of Charlotte in ad, possible black gospel, faded before s/off. (JN-PA)

1550 WYVA VA VIRGINIA BEACH - 12/5 1733-1800 w/rock oldies, asking for phone calls from long distance listeners of all things! What new found power will do! s/off 1800. (JN-PA) (can, one of the callers was the 233, said they weren't suppose to be on-air! (DE)

WYVA GA SHERMAN - 12/4 1600 Christmas music, Church broadcast promo, ID as 53's most powerful fulltime Christian AM, etc. (JN-NY)....11/16 1717 good w/sports, music, ID. (SP-NJ)

WYND FL CORAL GABLES - 11/21 1730 good w/dual city ID, Miami. (SP-NJ)

WYND GA JAYNESVILLE - 11/26 2247 o/3rd w/basketball. (JN-DE)

1560 WYVA VA JAYNESVILLE - 11/18 1725-1726 good w/ad, ID, mention of s/off. (SP)

WYND GA TOLLEDO - 12/4 1605 in J.N.H null w/AM news, CS music. (JN-NY)

1570 WYND TN CLEVELAND - 11/21 1714 weak w/ID noted. (SP-NJ)

WYND TN JAYNESVILLE - 11/18 1729 good w/s/off. (SP-NJ)

WYND FL OKEECHOBEE - 11/18 1731 good w/s/off w/invite to tune to 101.3 P.M. (SP-NJ) I guess you tried! (DE)

WYND SC MORIS - 11/16 1714 weak w/s/off. (SP-NJ) (SP-NJ)

WYND GA CORROON - 11/15 1731-1732 good w/ad, s/off o/religious music. (SP-NJ)

WYND GA SESTFIELD - 12/3 u/CKLI w/AM news, per call, day power is 2213 watts, post sunset is 303 watts. (KAZ-DE)....12/5 1730 noted on new extended hours, all news. (JH-PA)

WYND IN FRANKFORT - 12/16 1745 w/sports, TK Highschool basketball. (JN)

WYND IL HARVEY - 12/17 1848-1859 jazz music, ads, no ID til s/off w/good signal. (JN-PA)

1580 WSRV FL CORP LAUDERDALE - 11/18 1723-1724 good w/ads, Surf 16 ID's, rock oldies. (SP-NJ)....12/3 1750 almost sure on late power/pattern change, xint in 233 null w/Surf 16 ID's, never that strong on nite power/pattern. (KAZ-DE)

WYVA PA JAYNESVILLE - 12/13 1800 noted w/rock oldies til this time, came up channel negatly til s/off. (JN-PA) Oh, they were play bubble gum rock music! (DS)

WYTV NC ICARD - 12/4 1713-1714 fair w/anc't and full data s/off, mentioning "Beautiful Gospel". (JN-PA)

WYTN WI WAREHOUS - 12/4 1715 good w/Memory Lane music, weather and full data s/off. (JN-PA)

WYDN IL DUQUOIN - 12/17 1859 noted w/s/off. (JN-PA)

WYSA IL PITTSFIELD - 12/17 1900-1901 good w/s/off, ID. (JN-PA)

WYVA IA CHARLES CITY - 12/16 1800 NJ3 news, ID, sports. (JN-PA)

WYVA IA DAYTONPORT - 12/16 1859 noted w/s/off w/ID. (JN-PA)

1590 WYVA IA GURNEY - 11/30 1854 ID, weather in jumble. (POC-NJ)

WYVA OH AKRON - 12/1 1904 ID, news, ads, weather, heard thru WENS. (POC-NJ) WENS is on 1430, no! (DE)

WYVA GA SWAINSBORO - 12/11 1732 fair/good w/s/off, no SSS. (WPA-DE)

WYVA GA LAFAYETTE - 12/4 1730 in well ending CS music then s/off. (HWH)

WYVA KY LEBANON - 12/4 1731 xint w/full data s/off, SSS. (JN-PA)

WYVA NC WEST ABERN - 12/4 1716 very good w/full data s/off "The Amazing AM", still no answer for 9/30 report. (JN-PA) Amazing! (DS)

1600 WYVA NC HENDERSONVILLE - 11/17 1730 good w/s/off. (SP-NJ)

WYVA AL HUNTSVILLE - 11/17 1734-1735 weak w/music, ID giving address, into ad. (SP-NJ)

WYVA MI ANN ARBOR - 12/4 1550 AM Christmas events, sports watch promo, Dick Clark program, in good. (JN-NY)

WYVA NY NEW YORK - 11/20 2100 solid copy o/local WYVA w/relig. (FV-MI)

**MIENITA - WEDDAY**

560 WYVA NY BECKLEY - 11/14 0658 solid at times taru WHND PSA w/ads and ID, 9 miles from xmtr. (FV-MI)

WYVA FL MIAMI - 12/13 0188-0125 fair/good w/contest promo, CW music, WNB presumed to be u/w/talk. (FC-PA) You presume correct!

590 WYVA NC ORAMA - 12/5 2025 good w/WESI w/accuweather, 59 Country ID (DS)

600 WYVA IA CEDAR RAPIDS - 11/29 0635 poor/fair w/2 others w/weather and ID. (KAZ-DE)

WYVA FL JACKSONVILLE - 11/27 0614 fair/poor w/MOR music, ID. (KX-IL)

620 WYVA WI MILWAUKEE - 11/29 0637-0641 very good w/talk show w/local teacher, faded then returned w/Milwaukee area mentions. (KAZ)

WYVA FL ST. PETERSBURG - 12/13 0120 fair w/"Sun Country" ID, S.S. (TC)

690 WYVA FL EL PASO - 11/20 0520 w/CS music, "X-HAY" ID's, XETRA was off some splash from KNR. (BK-CA) My closest unheard! (DKK-CA)

710 WYVA MI MORTONSHEDD - 11/29 1130 w/CS music, ads w/mention of Canada turns out to be my UNID w/SOR most days. (KAZ-DE)



750 \*WSS GA ATLANTA - 12/12 0232 noted off this AM but returned 0242 to reg. axed w/no mention of being off other than "returning to air", just several MID Spanish stations noted. (JH-OK)

770 KAA SA SEATTLE - 11/28 0310-0330 w/lite pop music, ID, w/KOS. (DKK-CA)

790 WPAR VA NORFOLK - 11/14 0710 fairly good against CAL splash w/ID, music and ads. (FY-MI)

820 WAIV ID CHICAGO - 12/5 0508 w/oldies/pop music, ID, no sign of JAF, faint but clear. (POC-MI)

860 WJAS SA GREAT BARRINGTON - 11/30 0706 briefly very good w/list of local business applications, before fading to JAC/DAI. (KAZ)

880 \*WGBS NY NEW YORK - 12/12 0249 noted off in passing, leaving, several UNID Spanish stations, WBSJ was on so not their tower maintenance silent period. (JS-OK) ditto. (JS-OK)

910 CKLY OV LINDSAY - 12/3 0602 news, sports, weather, atop fire, usually just REC here. (TF-OK)

930 XSEI ID POCATELLO - 11/7 0007 in KAJ null w/contest, ID. (S-CA)

940 WJZZ FL MIAMI - 11/30 0556 good atop Cuban w/ID, news. (KAZ-LS)

950 WURL MA BOSTON - 12/3 0630-0700 the Rosary, American Indian Hour program o/u WPM/WBK on good opening to NS. (TF-CT)

960 WPCN PA MT. POCONO - 12/5 0611 w/others w/weather, ID, music. (POC-MI)

980 CKSH PC MONTREAL - 12/5 0148 very good w/rock music o/WNC. (DS-DS)

1060 \*WHPB MI BENTON HARBOR - 12/5 0040-0105 very good on AT w/continuous detailed ID's, equal w/null'd KYs. (DS-DS).....12/5 0051 fair w/KYS w/ET, repeated ID's, etc., requesting reports. (JA-P)

1080 WUFO NY AMHERST - 11/30 0702 fair/good w/ID, disco music. (KAZ-MS)

1150 XBAI CA MORRO BAY - 12/7 1030 w/ID, ads, barely atop din. (DKK-CA)

WHSU MA BOSTON - 12/12 0215 w/long dissertation on new AM Stereo, PSA, EZL/Christmas music, fair to nil. (DS-DS)

1180 WLSB IL JACKSONVILLE - 12/4 0852 u/WHAM w/sports, ads. (KAZ-MS)

1190 \*UNID KADE CO BOULDER - 12/1 0830-0845 going, KAZ w/rock music, sports, (DKK) local ads and more rock music, doubt this is their 52 watt PSA.

1200 KFNV ND WEST FARGO - 12/4 0901 good w/religious program, just missed s/on, hung on til 0952, called and said would verify. (KAZ-MS)

1210 WKNE MI SAGINAW - 11/29 0714 fair/good well o/WJAG w/ID, noted w/WJAG all days at times during December. (KAZ-MS)

1230 WKYG WV PARKERSBURG - 12/12 0400 ID, ABC news then J./oldies mix, female anc'r. (JS-OK)

1240 WENK TN UNION CITY - 12/5 0304-0315 poor w/PA promo, ID, oldies music then fade out. (JPA-OK)

1250 WNVL KY NICHOLASVILLE - 11/27 0600-0607 on top w/full data s/on and news, into program of gospel singing. (KS-PA)

KWSU WA PULLMAN - 12/2 0900 s/on atop but soon lost to KHOT. (DKK-CA)

1260 CIHI NB FREDERICTON - 12/5 0106 w/ad, weather, ID, rock music mostly o/WNDS. (DS-DS)

1270 \*WSPR MA SPRINGFIELD - 12/12 0207-0210 long talk on various levels, mention of ET, to return 0600, o/Cuean/WURL. (DS-DS)

1280 XBRQ CO DENVER - 12/11 0728-0731 ID, rock music and faded. (JFH-OK)

1290 \*WJBR DE WILMINGTON - 12/13 0045+ noted on again this AM w/Pop type TT, local. (DS-DS)

1300 KRQP CA BRAWLEY - 12/5 0055-0300 w/GJ music, ID u/KYNO/KWKA, noted til 0300 s/off. (DKK-CA)

KFMO CA MENDOCINO - 12/5 1014-1030 w/local ads, CW music, nicely atop, ID and time check also given. (DKK-CA)

KPTL NY CARSON CITY - 12/5 0324 popped up w/ID thru others. (DKK-CA)

1310 WJUZ PA TROY - 11/30 0600-0622 mostly on top w/s/on w/SSB, news w/female anc'r, weather and "American Music" (pop), ads, ID's as "AM 75". (KS-PA)

KZZP AZ MESA - 12/5 0100-0300 rock music, ID, about the 5th different call noted on this station. (DKK-CA) Send 'em another report!

KIOT CA BARSTON - 12/5 1022 briefly atop w/ads, ID. (DKK-CA)

KCRS CA PRESENT CITY - 12/5 1004-1010 female anc'r w/news, local weather, temp, caeck, ID, ads. (DKK-CA)

\*KDIA CA OAKLAND - 12/2 went off in windstorm, didn't return til late 12/5, thus logs on 1300-1310-1320. (DKK-CA) Love it! (DS)

1320 KQIC CA LENOORE - 12/5 0959 w/news in Spanish way u/KGMR, ID in Spanish and English by female then more music in Spanish. (DKK-CA)

1340 KORY CA OROVILLE - 12/8 1030 atop w/ads, ID. (DKK-CA)

KRAM NV LAS VEGAS - 12/6 0600 tara din w/ID. (DKK-CA)

1340 WVAR WV CLARKSBURG - 12/16 0101 noted w/rock music, ID as "J-burg's Best Rock" fair signal, sounded automated. (DS-DS)

1370 WZYQ MD FREDERICK - 12/3 0545-0600 humor, CW/Rock music, ID's as "Station of the Year, FM 104 WZYQ", thought they were a day timer? (TF-CT) Can't read clocks there! (DS)

1380 WBSX NH PORTSMOUTH - 12/5 0539 poor w/pop music, ID, closings. (POC-MI)

1420 WBSO MA PITTSFIELD - 12/3 0539 promotion for Caravan of Sports, rock music, heard better in PA. (TF-CT) Should have stayed! (DS)

1440 KIPA AR LITTLE ROCK - 12/11 0701 fair at s/on w/inspirational station promo, PSA, faded to J.L.L. (JFH-OK)

1460 WPD FL JACKSONVILLE - 12/5 0211-0234 weird condition: brought this in w/fair signal w/ID, B/Sol music, survey promo. (JA-P)

1480 KRED CA SUREKA - 12/8 0318 w/ID atop KJUN/KYOS, K-Rod Country. (DKK)

1490 WJCC PA LEWISTOWN - 12/12 0320-0330 w/several ID's atop free, used to be a regular. (JS-OK)

1510 KARK MA BOSTON - 11/29 0053 poor u/WJAG w/SL, ID. (KK-IL)....12/12 0225+ w/Stardust, NYL type stuff, ID. (JS-OK)

1520 KAPZ CA WHEATON - 11/29 0900 s/on w/english ID into Spanish mixing, w/EAGZ. (DS-CA)

1540 KJZZ SA BEELEWEE - 11/28 0215-0230 w/jazz music u/KZLA 12/4 0130-0220 very loud TT way o/KXIL ton into music, looping south, no ID's noted. (JM-PA)

1550 \*WVAB VA VIRGINIA BEACH - 12/10 0115-0140 AT w/rock oldies, ID's between selections, s/off then OC. (DS-DS)

WARY AL HUNTSVILLE - 12/5 0158 good w/rock music, NFL scores, ads, weather, no evidence on day power. (JK-PA)

\*WJRU TN SODDY-DANBY - 12/12 0100+ very good w/"Music in the Night" but fading w/no ID, recognized as they have done this before, never varied report. (JM-PA).....12/12 0140-0220+ AT w/PA audio and ID's as "Choo-Choo 102", using Stardust service from Satellite Music Network, still noted 0440. (JS-OK).....12/12 0143-0203 w/oldies/standards, weak/fair w/PSA's, promo's for "Choo-Choo 102", mentions of Chattanooga. BT but mothinks they left their AM side on. (DS-DS)

1560 WZAD KY PADUCAH - 12/12 0234 xint w/promo for AM Stereo radio's for listening to PAD AM Stereo then CW music. (JM-PA)

1570 WKOL NY AMSTERDAM - 12/10 0620 caught ID u/CKL et al. (JK-MD)

\*UNID 12/4 0123+ very loud TT, good w/religious music later, looping south. (JM-PA)

1580 \*UNID 12/4 0140-0201 weak w/opera like music, Christmas Chipmunks record, ID and address given w/woman's voice, barely noted, sounded to be WTTZ Mt. Dora. (JM-PA) Isn't WTTZ 100.3 in Newark, NJ? (DS)

\*WZKY NC ALBEMARLE - 12/4 0136-0217 xint at times on AT w/AOR music, repeated ID's, asking for calls, running 186 watt Post Sunset Power. (JM-PA) 12/8 0010 noted on AT w/rock/album music, many ID's and asking for reports and phone calls, o/u GJJ. (DS)

1590 WAST MS CORHALE - 12/11 0150 atop AKR/WJSD w/ID, rock oldies, again 12/16 0120 w/weather, promo and ID. (DS-DS)

DIS:

1610 ME MT. DESERT ISLE - 11/30 1815-1816 fair/good during deep Caribbean fade w/several Bar Harbor mentions. (KAZ-MS)

PIRATES:

1500 ACTIVE RADIO, AM 200 - 12/1 1700 noted atop WTOP w/B/Sol music, loops east, loud at times. (JM-PA)

1616 KPHC NY NEW YORK - 12/3 0126 w/ID during talk, folk music, good signal. (YPI-DC)

1620 WQTU OH CLEVELAND - 12/12 0020-0112 off w/AOR music, few short ID's, sounded recorded, mentioned shortwave parallel on 6640, not heard, as I the only one to hear "The North Coast Rock Pirate", never heard/reported in pirate bulletins, suspect low power. (JS-OK)

HELP DEPT., RETURNS:

KHOG-1440 still here as of 12/10 0700, call to station reveals awaiting parts to make changes, could still be another week to 10 days til move to 1030. (JFH-OK)

WPK-1010, address is Highway 78, 36843. (JM-PA)

BILL PRATERS KBTU-920 (11/28 DDXD) is indeed KYST Pasadena, TX....call KBTU used in association w/all Beatles music format which has recently been dropped after only 6 months....station sold to new people. (SP-NJ)

RANDOMS:

I'm looking forward to sunset reports on the 12/4 opening to the midwest, some in this report look very good. Thanks to all for the support to the column, especially good to see reports on a regular basis from the west coast cropping up. Let's hope the semi-good conditions continue thru 1984!





## CONTRIBUTORS:

SF-NJ/Steve Paradise, Millville, NJ/WRP, 1  
 WIS-TI/The Wizard of Poquonock, NJ/A.180, Loop  
 BR-CA/Bradford Wall, San Bernardino, CA/R1030, Loop  
 RB-IN/Ronald Rardue, Lyron, IN/BA 300, Palomar Loop  
 POC-VA/Patrick O'Connor, Hinsdale, NH/DA 300, 1  
 JR-NI/Jay Novello, Andicott, NY/SR1, 3A9  
 SE-NJ/Sob Harrison, Union, NJ/Superadio  
 EX-IL/Robert Kramer, Chicago, IL/IL.140, 1.129A, R1000, Loops  
 EG-PA/Hermit Geary, Saltwater, PA/IL.180, R390, LA, 1.2  
 BKW-CA/Don Kaskoy, San Francisco, CA/IL.140, 3M2  
 KAZ-MI/Neil Kazarski, Oganquist, MI/HR.180, 2M's  
 TP-CT/Tony Fitzherbert, Fairfield, CT/ICP35  
 JPH-OK/John Herman, Vinita, OK/Philco Portable  
 WPT-DC/Bill Townsend, Washington, DC/ICP35  
 JK-MD/John Kureth, Uniontown, MD/BA43, 3M1, 1  
 JS-OH/Jerry Starr, Hubbard, OH/HR.180, Loop  
 HJH-PA/Harry Hayes, Wilkes Barre, PA/Superadio, R.180, 542  
 TC-TN/Tom Connatner, Sevierville, TN/Superadio  
 JM-PA/John Malicky, Pittsburgh, PA/A1wa AR158  
 FV-WI/Fred Vobbe, Temperance, MI/AM75, Loop  
 DS-DE/A worn out editor/R.180, 3M2, Superadio

And as Chuck Hutton would say.... "New York, again!". 73's-Good !!!

**KTUI**  
 Radio Station  
 Box 31-Phone 124-108  
 SUL 1241-40 0300



**KADE**  
 Radio 12am  
 Boulder

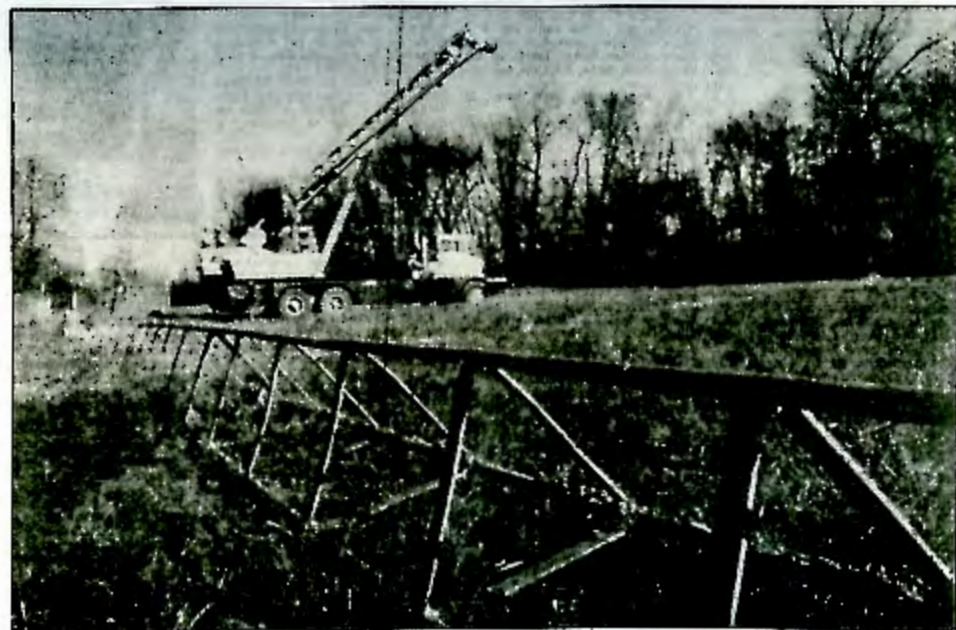


Photo by Chuck Hall Jr.

A crane was used to put part of radio station WXVW-AM's transmitting tower back up yesterday in Jeffersonville, Ind.

The station resumed broadcasting more than 14 hours after vandals apparently cut cables supporting the 165-foot tower.

## Vandals topple WXVW's radio tower

The Courier-Journal Section Section Bureau  
**JEFFERSONVILLE, Ind.** — Radio station WXVW-AM in Jeffersonville resumed broadcasting at 4:40 p.m. yesterday, more than 14 hours after vandals apparently cut cables supporting the station's 165-foot transmitting tower and sent it crashing to the ground.

Station officials removed the damaged portions of the tower yesterday and used a crane to put the remaining 100 feet up again. The station was broadcasting at reduced power pending further repairs.

The station's office manager, Katy Frank, said the incident occurred at 1:54 a.m. Jeffersonville police were notified about 3 a.m. after engineer John Bradshaw discovered the toppled tower.

Ms. Frank said announcer Charlotte Augustus, who was working the late-night shift, thought she heard an explosion at about the time the tower fell and initially assumed that an accident had put the station off the air.

But police officer Danny Rodden said the quarter-inch steel cables that supported the tower ap-

pear to have been cut—although there were no tire tracks or other markings nearby. A building housing the station's offices and broadcasting equipment is located at 215 Magnolia Ave., adjacent to the tower.

Resident said police have no suspects, but detectives are continuing to investigate.

VIA MAIL 12/12

DEC. 2, 1977

# INTERNATIONAL DX DIGEST

CHUCK HUTTON  
 1035 LATHAM ROAD  
 DECATUR, GA 30033  
 (404) 633-1198  
 BEFORE 2300 ELT

Times are GMT. For ELT subtract 5 hours. Deadlines are usually Monday.

Greetings all... It's Tuesday night and there is a lot of stuff here to type so I'm just going to start typin..

- 530 COSTA RICA PICAL Cartago 0249 11/17 poor with QRM de "NB" beacon, man with political talk de Guatemala FCR live w/applause and sung anthem—continues past 0300. (Frodge)
- 551 HAWAII KMVI Wailuku 11/27 1036-1041 loud and clear with ID, oldies music; local temp 72. (Woods)
- 580 VENEZUELA YWVZ LV de la Fe, Maracaibo 0045 11/17 poor w/beisbol o/u WTCM. (Frodge)
- 530 CUBA OMEGA Camaguey men with beisbol // 620 u/CFCO 0258 11/30. (Frodge)
- 650 ALASKA YAK Anchorage 11/25 1456 to 1508 fair to poor with ID, c&w, local news, sports, weather, fadcut at 1508. (Woods)
- 650 HAWAII KOHL Honolulu 11/27 0951 fair along with WSM, ID, MYL. (Woods)
- 666 PORTUGAL Lisboa 0236 11/2 lilty PP tunes, PP talk, fair. (Hakiel)
- 604 SPAIN Seville 2141 11/1 SS talk, pop mx, fair. (Hakiel)
- 730 TRINIDAD AND TOBAGO Port of Spain 0011 11/22 ES announcer w/accent giving political speech. Good. (Hakiel)
- 735 ECUADOR Quito HCGB1 0236 11/20 nice soft LA vocals by woman, good. (Hakiel)
- 730 SPAIN Barcelona 2156 11/1 SS talk, pop mx, fair/ (Hakiel)
- 747 HOLLAND Flevoland 2240 11/9 long DD talk by man—poor/fair. (Hakiel)
- 756 PORTUGAL Lisboa 2111 11/1 men in PP w/talk, good-fair. (Hakiel)
- 765 SENEGAL Dakar 0020 11/6 AA mx, talk. (Hakiel)
- 774 MOROCCO 0032 11/6 AA chants o/Spain, fair. (Hakiel)
- 783 PORTUGAL Porto/Hiremer 2207 10/27 PP talk, pop mx, good. (Hakiel)
- 792 SPAIN Seville 2220 11/1-SS talk poor-fair. (Hakiel)
- 800 VENEZUELA Maracaibo WTB 11/13 LA love songs, Radio Exitos ID, good. (Hakiel)
- 810 COLOMBIA HJCY Bogota 0221 11/30 fair with "escena Sutatenza mas grande potencia" and "La emisora Sutatenza" ID's and LA vocal mx. (Frodge) 0050 11/17 fair with "Cadena Sutatenza informativa" w/ fanfare and anthem o/WGY. (Frodge)
- 825 ST. KITTS Basseterre 11/24 0325 c&w hymn songs. (Purdue)
- 827 LIBYA Sabha 0412 11/3 AA talk by man, poor. (Hakiel)
- 830 DOMINICAN REPUBLIC HIJB 0033 11/17 fair, man with ID "LV de ???", sports, numero uno promo, sds w/WCCO. (Frodge)
- 834 HELIZE R. Helize 0024 11/17 fair with man with sports to 0026, prayer and tunes at 0030, man began "The world at 7" and BBC news at 0030. (Frodge) 11/11 at 0128 SS talk or news noted again 11/24 at 0326 playing c&w mx. (Purdue)
- 840 HAITI Cap Haitien 2248 11/1 PP Creole talk, fair. (Hakiel)
- 854 PERU Lima OAXIA 1025 11/8 slow tempo LA mx, SS talk, poor. (Hakiel)
- 855 SPAIN Murcia 0246 11/3 orchestral mx, SS talk, good. (Hakiel)
- 860 PANAMA Chitre HOL55 1000 11/22 sign on w/NA, H. Refirma ID. (Hakiel)
- 870 ARGENTINA Buenos Aires LRA1 0231 11/1 man in operatic aria, 3 pips at 0230, fair-good. (Hakiel)
- 891 ALGERIA Algiers 0226 11/3 AA mx, vocals, xint. (Hakiel)
- 895 COLOMBIA HJPM Santa Marta "R. Galeon le emisora" 0319 11/30 poor w/mostly LA vocals, long promos, QRM de XEW-900. (Frodge)
- 911 SURLINAM Nieuw Nickerie 0022 11/15 exitic Hindi vocal by man, good. (Hakiel)
- 915 ECUADOR Machala HCRO3 0256 11/19 LA mx, SS talk, good. (Hakiel)
- 944 HONDURAS Tegucigalpa 0254 11/19 familiar pop tunes, SS talk, good. (Hakiel)
- 945 FRANCE Toulouse 0534 11/3 PP talk by man and woman, fair-good. (Hakiel)
- 965 ECUADOR Santo Domingo de los Colorados HCOT1 0245 11/19 LA disco mx, SS talk, poor-fair. (Hakiel)
- 1000 COLOMBIA HJAW Cartagena men with game BC-Pelots involving Cartagena to 0534 sds/LA vocals-u/WCF. 0510 11/30 poor. (Frodge)
- 1040 COLOMBIA Berranquilla 0238 12/1 good, man "Geracel Berranquilla" game BC w/follow-up tx ad for Leo Heaters-QRM de HION 0238 12/1 good. (Frodge)
- 1040 DOMINICAN REPUBLIC HION Santo Domingo 0238 12/1 fair men w/MoR

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Société  
 Radio-  
 Canada



- (1040, continued) SS vocals-occasional sound like PP-Pac Man sound effects-QRM de HJAI. (Frodge)
- 1044 MOROCCO Sedas Aloun 0052 11/7 long tirado by men, AA fair-good. (Hakiel)
- 1060 MEXICO XEPP 0227 12/1 very good with woman in SS with "R-E" ID's, Indian drum chants. (Frodge)
- 1062 PORTUGAL Norte-Azurara 0046 11/7 old US pop tunes, good. (Hakiel)
- 1130 COLOMBIA Barratquilla HJAC 11/21 LA pop mx, "Emicora Rio Mar" ID, WHEW nulled, fair. (Hakiel)
- 1206 FRANCE Bordeaux 2028 11/7 FF talk, 1 1/2 hours before sunset, fair. (Hakiel) What do you want us to do-move sunset up earlier in the day???? CH
- 1215 ALBANIA Lushnje 0322 11/5 woman in Albanian talk, near eastern mx, good. (Hakiel)
- 1220 BRAZIL Rio de Janeiro 2212 11/18 men and woman in PP talk // 6035. Good. (Hakiel)
- 1320 VENEZUELA Turmero YWFP 2302 11/18 LA mx, R. Apolo ID, good. (Hakiel)
- 1375 ST. PIERRE ET MIQUELON 1949 11/23 FP talk-note time-2:49 PM local time and 2 hours before local sunset, fair. (Hakiel)
- 1395 ALBANIA Lushnje 2336 10/31 SS talk, classical mx, good. (Hakiel)
- 140L GUINEA Conakry 2033 11/9 AA mx at this early time, fair. (Hakiel)
- 1458 ALBANIA Durres 2318 10/31 Albanian talk by man and woman, fair. (Hakiel)
- 1467 MOROCCO Monte Carlo 2323 11/7 religious program w/EE preacher, good. (Hakiel)
- 1500 UNID LA w/lively mx noted beating up WTOP early evens in su cx, ID as Radio ??? and "Cnds Musical" 2400 11/18. Noted a few other dates/times. Connelly tells me that he heard a Cuban here from Oriente province last weekend on Uspe Cod w/lively mx here. Is this them? (Kaz)
- 1520 VENEZUELA La Guapa YVIC w/other LA's u/WKBW w/YV NA at 0107 s/off 11/19. (Kaz)
- 1540 BAHAMAS Nassau ZNS1 noted u/WPTR w/"of the Bahamas" mention 0014 11/19. (Kaz)
- 1550 COLOMBIA R. Exitos RGN 9/unid SS after CBE s/off 0630 11/28. (Renfrew)
- 1554 GABON Libreville commonly at least a carrier early evens 2350 11/18 putting a vicious hot on Cayman 1555. Fair-good audio w/drum and African chants. (Kaz) Has been showing up often at or before sunset; poor and just audible 2056 11/27. (Kaz)
- 1566 AZORES Santa Marta starting to fade in w/readable audio at 2045 11/27 and very good to xint peak with PP msgn then PP mx at 2054. (Kaz) 2319 10774 woman in PP, talk, rock mx poor-fair. (Hakiel) Almost a nighty pest here-rock mx and talk ID which ended in "do Atlantico" very good for mx and only fair for taped ID on fede. (Kaz)
- 1575 UNIDS 2353 11/18 two stns here in bad QRM/QRM slop 2353 and earlier. One seemed SS and the other FF and might be Gabon as 1554 was decent. Ivory Coast is another possibility but 1493 was only the weakest bit of a carrier. (Kaz)
- 1610 ANGUILLA Caribbean Beacon 11/30 0330 country flavored religious and gospel mx, ID, into "The Radio Bible Hour". Recheck at 0426: ad for an island firm, ID included "The Good News Station for the Eastern Caribbean Nations". Good modulation. (Swearingen)
- 1613 GUATEMALA RAB beacon; old friend weak (your friends sure are boring...CH), fading, in at 0316 11/30. (Swearingen)

And now, this issue's section of the Brian Vermin report.....

- 164 FRANCE Allouis 11/23 0448 man w/FF singing.
- 182 UNID 11/23 0420 male w/unid talk, probably Petropavlovsk but very early.
- 209 ICELAND Vatnsendi 11/21 0750 female snnr, no MW // found, noted 0522 w/EE rr mx.
- 227 POLAND Konsztyntynow 11/23 0121 male with talk via phone.
- 236 USSR Arkhangelsk etc. 11/23 0444 some kind of play, program One // 999, poor signal.
- 576 WEST GERMANY dunno which one-11/21 0437 male w/SS talk then male singer, no QAN.
- 630 NORWAY NRK Vigma 11/21 0533 male opera type singer // 1314, also w/IS 11/23 0456.
- 650 GREENLAND Godhavn 11/20 1139 male with Danish talk then choir mx // 750, 850. Poor signal.
- 657 USSR Murmansk 11/22 0544 female snnr, silence, 0545 female again, not // 666 also 11/23 0452 male with talk // Program One on 999, not // 666.

- 666 LITHUANIAN SSR Vilnius 11/22 0448 rapid singing w/Red Army type choir, 11/23 0453 choir type mx, not // Program One, noted 0500 pips and news sound and then Program One.
- 675 NORWAY NRK Bodo 11/22 0550 male with talk then religious type singing noted // 640 but not 1314.
- 702 NORWAY NRK Vadso 11/23 0451 TT // 675, also IS, 0456 // 630, 675, 1314, 1405 but nothing noted on 155 and 218.
- 711 LIBYA Jefren etc. 11/23 0120 AA wailing // 1251.
- 720 HAWAII Kua'i Kava'i 11/19 1521 TC and Burger King spot, 11/20 1104 female snnr w/jazz type pgm, maybe 24 hours now to combat the Soviet?
- 738 POLAND Poznan 11/21 0436 male snnr then mx, not EE but caw sounding // 1000.
- 747 UNID 11/22 0447 female snnr w/very lovely talk, could not pick out the jingo. Xint.
- 750 GREENLAND Umanak 11/19 1456 male with Danish talk topping KPOD.
- 756 WEST GERMANY DLF Braunschweig 11/21 0450 male with GG talk.
- 774 SPAIN RNE2 Ceceares etc. 11/22 0429 woman with SS talk, fair.
- 783 EAST GERMANY Burg 11/22 0415 male with GG talk, xint.
- 800 ALASKA KINY Juneau 11/21 0658 Tom Parsons with TC and all Alaska from her to Nome is on Yukon Standard time per pgm on KMDW, this is a one year trial. 0700 Hour of Decision, 0727 Country Persons Show till 2400 LT s/off.
- 801 USSR Leningrad 11/22 0500 news snnr, massive signal, 11/23 0300 USSR anthem // 999, 1350.
- 820 ALASKA KCFB Fairbanks 11/22 new ID's between football game 0302 "50,000 watt clear channel, KCFB Fairbanks", 0401 "50,000 watts at U-20, we are KCFB Fairbanks, the news center".
- 837 AUSTRALIA LR- Rockhampton 11/19 1513 probably the stn carrying rugby via BEU WS on Radio One.
- 846 USSR Moscow 11/23 0406 male with talk // 999, fair.
- 850 GREENLAND Upernavik 11/19 1443 female w/Danish talk, best from Gronlands here but OG on 24 hours.
- 873 USSR Mezen 11/21 0456 male opera singing 11/22 0435 male and female w/slow talk, maybe educational program, // 1125, all program 3. Noted w/Huyak IS 0259 listed s/off. Heard more often than this, maybe another power increase due for KSKO?
- 891 TURKEY Antslye 11/23 0207 AA mx, fair signal // 1062.
- 891 FIJI Lautoka 11/22 0720 male with weather then news item about possible independence of New Caledonia in 1985.
- 900t SASKATCHEWAN CKBI Prince Albert 11/21 0347 male w/Ukrainian sounding talk, 0358 choir mx, faded on hour but CKBI noted after.
- 900 ITALY Milano 11/21 0442 female opera singer, xint signal, // 646 just audible.
- 909 ENGLAND BBC 2 Moorside Edge 11/23 81D 0405 mentioning everything for you on BBC radio 2, // 882 good.
- 918 USSR Mezen 11/23 0259 noted w/Huyak IS // 873 Mezen also, noted earlier 0222 w/chorus type mx, // 972, poor sig w/KSRN and LPWT QNN.
- 927 BELGIUM BHT1 Wolvartem 11/22 0511 male w/Dutch talk, then female singer, KP song, good.
- 936 WEST GERMANY R. Bremen 11/21 0512 rr mx, 11/23 -114 EE rr mx, 0117 GG belled.

Eric Buensanen-Mezohwood, MO	DX200, SM2
Harold Frodge-Midland, MI	DX302, 185' LW
George Hakiel-W. Islip, NY	R70, R7A, phasing unit
Wayne Hoinen-Aurora, CO	R390A, MW1 loop
Noel Kazarska-Ogunquit, ME	R70, loops, LW's, phasing units, tuners
Ronald Perdue-Byron, MN	DX300, Palomar loop
Jim Renfrew-Rochester, NY	HQ150, SM1
Paul Swearingen-Sun Valley, CA	HQ180, Martons loop
Brian Vernon-Elsa, Yukon	FRG7000, R7A, 6 LW's
Jack Woods-Corvallis, Ore.	Hammerlund RBG, NRC loop

And those are the contributors from last time and this time. A welcome to Ronald Perdue and Jack Woods from Minnesota and Oregon respectively, states that we need reports from more often. I do hope that everyone is enjoying the holidays and finding time to do things they enjoy..... If you find some DX'ing time, drop me a line. Me, I'll DX a little and also play with my newest computer and plan a diet to remedy the effects of the holidays/parties/etc. See everyone next time.



# CONTESTS

ROBERT KRAMER  
6416 N. RICHMOND  
CHICAGO, IL 60645

## CONTEST STANDINGS as of 12/18/83

	A	B	C	D	E	F	G	H	I
Jim Renfrew, NY	240	41	0	0	0	0	7	2	04
George Sherman, NH	230	45	25	0	0	0	4	1	--
Arnie Lattok, OH	170	37	0	0	0	0	4	3	03
Bill Hardy, WA	125	20	0	0	0	0	2	5	05
Nancy Hardy, WA	97	22	0	0	0	0	1	5	05
Karl Forth, IL	62	37	0	0	0	0	1	0	--
Paul Stephan, CT	61	24	0	0	0	0	1	1	02
Bruce Conti, RI	48	35	0	0	0	0	0	1	03
Mike Hogan, IL	45	20	0	0	0	0	1	0	--
Noncontstant									
Me	429	51	46	27	0	0	3	3	--

See last contest report for what the symbols mean.

So far, the following people report the logging of new stations as a direct result of participating in this year's contest. The number of new stations logged follows their names.

Bill Hardy... 25  
Nancy Hardy... 25  
Bruce Conti... 05  
Jim Renfrew... 11  
Me... 07

You can see by the above that the contest is an aid to logging new stations. There is still time to enter. Send me the 75¢ entry fee & a list of 25 most wanted stations (they must not have been logged ever under any call letters) within 10 days that this appears in DXN. Even if you don't win a prize, you still will get new loggings just by trying for points. An indicator that this has been a great season, so far, is that I have reached level 3 in the states already. That was only done one time in the past & that took an entire year. For those of you who are far behind in the contest don't be discouraged. Each year that this contest was used previously, the person who jumped out in front early was not the winner. This contest was designed to get harder as you increase in level. This means that someone with a slow start can still catch up. I would guess that the record number of points, 482 by Mike Jesiorek, will fall.

## Texaco Metropolitan Opera Radio Network: 1983-84 Season

The Metropolitan Opera broadcasts occur Saturday afternoons from December 3 through April 21. Most broadcasts begin at 2:00 PM (EST), but ten begin earlier. The majority of the network is comprised of FM stations; here are the AM stations. The list comes from "Opera News", December 10, 1983.

WKYB 920-AB Andalusia	KGFF 690-FA Coffeyville	WDKE 1340-SC Charleston
WCOV 1170-AB Montgomery	KCCX 790-KA Colby	KUSP 690-SB Vernalilion
KBBI 1250-AK Homer ***	KMAN 1350-KA Manhattan	KIDJ 1550-TX Canyon-Amarillo
KANC 1320-AZ Yuma	KNKR 1240-ME Millinockett	KSEY 1230-TX Seymour
KMIN 1320-AR Fort Smith	WCBC 1270-MD Cumberland	KWHD 860-UT Salt Lake City
KDPC 1560-CA Sakersfield	WRDC 1410-MS Boyle	KWYT 1490-VT Brattleboro
KDIF 900-CA Fresno	KFTD 850-MO Clayton	KMSU 1250-WA Pullman
KFAC 1330-CA Los Angeles	KZIA 1580-NM Albuquerque	WABL 930-WI Auburndale
KKHI 1550-CA San Francisco	WQXR 1560-NY New York	KBBS 1450-WY Buffalo
WGMS 570-DC Washington	WIBX 950-NY Utica-Rome	
WBBB 1230-FL Baytown	WCGC 1270-NC Belmont-Charlotte	CBI 1140-NS Sydney
WDFP 1420-FL Delray Beach	WQVM 1490-NC Valdese	CHE 1010-AB Calgary
WVST 800-FL Largo	WITN 930-NC Washington	CEX 740-AB Edmonton
WFLN 1520-FL Orlando	WQUC 1340-OH Athens	CBZ 970-NH Fredericton
WGAN 1340-GA Athens	WQDA 1490-OH Marietta	CRD 1110-NH Saint John
WRCC 1420-GA Columbus	KOAC 550-OR Corvallis	CBH 860-NS Halifax
WREX 1400-GA Macon	KBPS 1450-OR Portland	CHM 940-PQ Montreal
WACL 570-GA Waycross	WBRE 1340-MA Pittsfield	COO 920-PQ Ottawa
KTOX 740-ID Boise	WRGC 1430-LA Morgan City	CSK 540-SA Regina
KSKI 1340-ID Hailley-Sun Valley	KPFO 1300-LA Shreveport	CSN 640-NF Saint Johns
WBAA 920-IN Lafayette	WFLN 900-PA Philadelphia	CBQ 800-ON Thunder Bay
WRIN 1560-IN Renaissance	WPTT 730-PA Pittsburgh	CHL 740-ON Toronto
WJGD 1390-IN Seymour	WIPR 940-PR San Juan ***	CHV 690-BC Vancouver
KWKY 1150-IA Des Moines	WDFD 1370-RI Wickford	CHZ 1550-ON Windsor

For additional CBC stations (both French and English), check local listings.  
\*\*\* Tapn delay

Barry S. Finkel

In October of 1983 the FCC mailed 2,357 daytime stations their long promised and long awaited authorizations for Post Sunset operation under Section 73.99. Most daytimers had been expecting operations to be allowed up to two hours after local sunset with moderately reduced powers. Stations with PSA (Pre Sunrise Authority) expected their PSSA powers to be substantially the same. Most got a lot less than they expected. According to James McKinney, FCC Mass Media Bureau Chief, only 87 stations got powers from 400 to 500 watts. The breakdown was:

Power in watts:	Number of stations:
400-500	87
300-400	51
200-300	152
100-200	350
75-100	218
50-75	393
25-50	500
1-25	508

There were 98 hapless stations that got NO PSSA at all. In addition to the low power, most stations were assigned different power levels for different months. Some stations got PSSA for less than 12 months per year. Several have PSSA for December only. Power levels, determined by the FCC computer using a number of complex parameters including the diurnal curves, field strengths, station spacing, etc. are very confusing. Many stations have THIRTEEN different power levels in a year. To complicate matters more, daytimers on clear channels also have Phase One powers and Phase Two powers. By FCC definition, they are:

PHASE ONE is the period beginning at licensed signoff and extending until sunset at the relevant Class 1 dominant station on your frequency.  
PHASE TWO begins at local sunset or at the end of Phase One (if authorized that month) and extends to 6:00 PM local time.

In Figure 1 you will see a partial reproduction of the notice sent to a station on 1000 kHz. Notice that each month has a different power level, plus the additional Phase Two power. The complications continue. Note that the operating schedule varies from 30 minutes to 90 minutes after normal signoff. In this case the hours get shorter in the summer. In others, the summer hours are longer. Let's count it up for our 1000 kHz station so far: That's 13 different powers, five different times. To top it all off, each station's authorization includes this warning: NO OPERATION beyond 6:00 PM local time is permitted NOTWITHSTANDING the hours listed above. Nearly all of the daytimers will be able to use their PSSA in just a few winter months despite their elaborate power and time schedules. By springtime most daytimer's normal signoff times will be after 6:00 PM anyway. An additional caveat notes that NO PSSA operations are permitted at this time.

It was my intention to publish a list of all PSSA powers in AM Switch, but that was back in the naive days when we assumed each station would have but one power and schedule. I have obtained a complete FCC computer printout for all daytime stations and it is massive, 524 pages to be exact. Figure 2 is a sample page from this printout. You'll notice that WQAP has 13 different powers and 5 times. KYMN got PSSA for only seven months with no two powers alike. The printout goes on like this page after page. Needless to say, we will not be publishing this information. To do so would require an AM Switch TWICE as thick as the NRC Log! If any member feels the need to have all this information it can be obtained from Downtown Copy Center, the company in DC that has the contract to reproduce all the FCC documents. They will charge you around \$60 for the whole mess. In an attempt to provide SOME sort of useful information, I will soon publish the list of stations that got NO PSSA. If a station is not on the list, you can assume that it has some sort of extended hours authorized. Whether all stations will use their PSSA is questionable. Many of the 508 in the lowest power category got only 1 or 2 watts and it is doubtful that such limited coverage would justify the expense of equipment modification and additional staff hours. The frustration of daytime broadcasters was expressed by Alan Moore, GM of WILY-1020. He is quoted in Broadcasting Magazine as saying "You can yell farther than that." His station got a whole 1.4 watts.

NOTE: On 12/2/83 the U.S. and Canada signed the bilateral agreement making PSSA operation possible and the FCC authorized the start-up of these operations immediately. You should be hearing some of these any day.



PHASE ONE OPERATING PARAMETERS

MONTH	ANTENNA CURRENT CONVERSION FACTOR	NOMINAL POWER	HOURS MIN. PAST NORMAL SIGN OFF
JANUARY	0.12	134.9 WATTS	0:45
FEBRUARY	0.11	126.8 WATTS	0:45
MARCH	0.11	118.8 WATTS	1:00
APRIL	0.10	106.1 WATTS	1:15
MAY	0.09	89.4 WATTS	1:15
JUNE	0.09	82.0 WATTS	1:30
JULY	0.09	84.0 WATTS	1:30
AUGUST	0.10	96.7 WATTS	1:15
SEPTEMBER	0.11	115.7 WATTS	1:00
OCTOBER	0.11	123.2 WATTS	1:00
NOVEMBER	0.11	131.7 WATTS	0:45
DECEMBER	0.12	137.8 WATTS	0:30

PHASE 2 ANTENNA CURRENT CONVERSION FACTOR 0.03 NOMINAL POWER 0.3 WATTS

ANTENNA SYSTEM USED: DAYTIME (LICENSE)

\* NOTE: Antenna current or common point current permitted during PSSA is obtained by multiplying the ANTENNA CURRENT CONVERSION FACTOR with the authorized antenna current or common point current. Antenna input power permitted during PSSA is obtained by taking the SQUARE of the ANTENNA CURRENT CONVERSION FACTOR and multiplying with the ANTENNA INPUT POWER listed on the station authorization

\* NOTE: NO PSSA OPERATION IS PERMITTED AT THIS TIME. Notice will be given by the Commission upon signing of a new bilateral agreement with Canada, which is expected in the near future. Thereafter, such operation may commence only on submission of the following information to Chief, AM Branch, Audio Services Division, Mass Media Bureau Room 342:

1. Licensee name, station call sign and location
2. Indication that PSSA operation is intended by the station
3. A description of the method whereby any necessary power reduction will be achieved

FIGURE 2

CALL: WDAF CITY: OMAHO STATE: NE AUTHORIZATION: L ANTENNA: D  
FREQUENCY: 1080KHZ

MONTH	PHASE 1 FACTOR	NOMINAL POWER	HOURS MIN	LIMITING STATION
JANUARY	0.07	4.5	1:15	WTIC
FEBRUARY	0.07	5.0	1:00	WTIC
MARCH	0.08	5.8	0:45	WTIC
APRIL	0.09	7.6	0:45	WTIC
MAY	0.10	10.7	0:30	WTIC
JUNE	0.12	13.5	0:15	WTIC
JULY	0.11	12.0	0:15	WTIC
AUGUST	0.09	8.8	0:30	WTIC
SEPTEMBER	0.08	6.5	0:45	WTIC
OCTOBER	0.07	5.4	1:00	WTIC
NOVEMBER	0.07	4.7	1:15	WTIC
DECEMBER	0.07	4.3	1:15	WTIC

PHASE 2 FACTOR 0.06 NOMINAL POWER 3.6 WATTS LIMITING STATION: WTIC

CALL: WYXN CITY: NORTHFIELD STATE: ME AUTHORIZATION: L ANTENNA: D  
FREQUENCY: 1080KHZ

MONTH	PHASE 1 FACTOR	NOMINAL POWER	HOURS MIN	LIMITING STATION
JANUARY	0.27	68.0	0:45	WTIC
FEBRUARY	0.24	56.5	0:30	WTIC
MARCH	0.27	75.4	0:15	WTIC
SEPTEMBER	0.31	94.9	0:15	WTIC
OCTOBER	0.25	64.4	0:30	WTIC
NOVEMBER	0.22	50.5	0:45	WTIC
DECEMBER	0.21	45.7	0:45	WTIC

PHASE 2 FACTOR 0.06 NOMINAL POWER 4.1 WATTS LIMITING STATION: WYXN



**NEWS**

FEDERAL COMMUNICATIONS COMMISSION  
1919 M STREET, N.W.  
WASHINGTON, D.C. 20554

News Media Information 202 / 254-7874  
Recorded listing of releases and lists  
202 / 532-0052

1272

This is a short-form announcement of Commission action. Release of the full text is Commission order continues (where applicable). See 47 CFR 1.1257 (b) and 1.1258 (b) (2) (i).

December 9, 1983

PIRATE RADIO OPERATOR SENTENCED

On November 22, 1983, Victor G. Alcorn of Sayville, New York was sentenced to 18 months of probation and ordered to pay a \$750 fine for operating an unlicensed AM radio broadcast station in violation of Section 301 of the Communications Act.

The sentence, handed down by the Federal Magistrate David Jordan of the U.S. District Court for Eastern New York, followed prosecution by the U.S. Attorney on evidence gathered by the FCC's New York District Office. Alcorn pleaded guilty to charges contained in a four count criminal information filed against him. Alcorn faced possible penalties of 4 years in prison, and a \$40,000 fine.

The charges were filed after Alcorn was arrested in July 1982, following an unlicensed broadcast. He had first been identified by the FCC New York engineers in 1981 as the operator of an unlicensed FM radio station responsible for a complaint of interference to the instrument landing system at MacArthur Airport in Islip, New York. Despite warnings and imposition of monetary forfeitures by the FCC, Alcorn continued to operate, challenging the FCC to catch him while attempting to avoid detection by repeatedly moving the location of his station, changing operating frequencies, and changing his hours of operation. These efforts were to no avail, and Alcorn was identified on several occasions by FCC engineers using sophisticated direction-finding techniques as being responsible for the unauthorized transmissions. Alcorn had generated considerable publicity for his unlicensed station, including news reports on commercial radio stations and newspapers.

The action against Alcorn was part of the FCC's continuing effort to take action against operators of unlicensed, or pirate radio stations. The operation of an unlicensed station is a violation of Federal Law, and frequently causes interference to radionavigation equipment, home entertainment receivers, and other authorized users of the radio spectrum.

An FCC spokesperson emphasized that other pirate radio operators would face stiff penalties and fines when caught by FCC enforcement engineers.

For further information, contact Alexander Zlany at (212) 620-3437.

- FCC -

FCC recalls call sign rules

Commission scraps its regulation of call letters; any disputes will now have to be settled in court; it also proposes to allow expanded use for AM carriers

Don't bother the FCC with call sign disputes any more.

From now on, the commission will still issue call signs, but it's not going to do much more. For example, it will no longer require call signs to be in "good taste." Nor will it require those requesting new calls, or call changes, to notify every station within 35 miles. And disputes over whether a new call too closely resembles another will have to be addressed in the courts.

"Basically we're getting out of the call sign business," explained Robert Hayne, an attorney for the FCC Mass Media Bureau.

The commission, at an open meeting last week, backed out of the business 3-1, with Chairman Mark Fowler concurring and Commissioner James Quello dissenting. The only issue appeared to be whether the commission should still—as the Mass Media Bureau had recommended—require calls to be in "good taste."

sign a call that had been relinquished in a community for 180 days, Hayne said.

Hayne added that, under the new order, a broadcaster who wants to challenge a call sign can in local courts under "unfair competition" statutes. If a community objects to a call, considering it indecent or obscene, it can "make its displeasure known to the station or the advertiser," Hayne said.

In other action, the FCC proposed to expand the variety of nonbroadcast services that can be offered on an AM broadcaster's carrier frequencies.

Among the proposals the FCC wants comment on is whether it should refrain from coming up with specific technical standards for the secondary use of AM carrier signals. It also proposed to require broadcasters to retain control of broadcast-related services using AM carrier signals, but proposed to exempt those offerings from statutory broadcast requirements.

Also according to the proposal, if a licensee determines the service he wants to offer is common carriage, he must seek authorization to provide that from the FCC Common Carrier Bureau and from state regulatory commissions.



## AUTOMOBILE RADIOS

## USING AN AUTOMOBILE RADIO TO DX

H.E. Robensdorf, Harvard, Illinois, apparently not lacking in ingenuity, judging from this letter, quoted herewith:

"When your magazine started with this DX corner and gave the schedules of the early morning broadcasts I didn't have what I considered to be a suitable receiver so about Christmas time I took out the set that I had in the car and started to DX with that. Up to date I have received 316 stations with it, using it upstairs in my room with a 20 foot aerial—that is 20 feet of wire strung around the room for an aerial. These include 27 stations in California, 1 in Honolulu, 2 in British Columbia, 4 in Oregon, 8 in Washington, 5 in Mexico, 10 in Canada etc."

The above offers a practical suggestion to those who have radio-equipped cars laid up for the winter. Many present-day radio sets are extremely sensitive and offer the advantage that almost any piece of wire will serve as an adequate antenna. The power supply offers no problem because the storage battery can be removed from the car also.

Mr. Robensdorf is another fan who thinks highly of the "Calavan" antenna idea. He is going to try it out and suggests that "airplane hadn't try to land around here after next week or they'll get tangled up plenty in aerial wire strung all over the vicinity."

QUESTION? What company pioneered the use of a radio in an automobile?

ANSWER—Motorola

RRR/Friday, December 10, 1993

## NRBA PLANS CHALLENGE

## Broadcasters Cool To New Call Letter Freedom

Industry reaction to the FCC's complete overhaul of its call letter rules (R&R 12-8) seems to be mixed, but leaning towards the negative. Latest word from the Commission is that the changes will probably take effect January 20.

Under the new system, FCC attorney Bob Hayes says it will take stations only one day to get new calls approved. After a quick check to make sure the letters aren't already in use, the Commission will approve new calls by telegram, with no regard for "good taste" or phonetic similarity to other calls in the market.

### Obscene Calls Too Risky, Say PDs

Program directors contacted by R&R weren't disturbed by the prospect of suggestive or obscene calls. The PDs seem convinced few stations are likely to risk hurting their position in the market by obtaining off-color call letters. "They'll receive too much aggravation from community leaders if they try something outrageous," KEZZO/Denaha PD Greg Gillespie forecast. Also unworried about good taste is WKFM/Syracuse Operations Manager Clark Lakfield. He's more concerned about similar-sounding call letters which could result in "screw-up" Arbitron tabs and diaries and really messed-up listeners.

WIOY/Montgomery PD Mark St. John commented, "Let the community decide what calls are proper or not. The broadcasters should have that on their minds." KZZL/Englewood PD Ken Martin agreed that blatantly obscene calls aren't likely, although more subtle "double entendres" may arise. He added, "All this deregulation is starting to get out of hand. I think they've opened up a can of worms and they're going to be sorry they let this get out of their control."

NRBA President Bernice Mann said his group will immediately file for partial reconsideration of the FCC action, calling the shift of disputes to local courts "extremely distressing." Mann said, "The vagaries and delays, the widely varying standards inherent in local litigation are a poor substitute for a function which rightfully rests with the Commission."

KZEL's Ken Martin agreed, saying, "Local courts aren't familiar with the types of problems that come up between broadcasters. And the courts are so overcrowded it could take months or years to settle something."

### Instant Calls Change Popular

In general, the broadcasters seem to like the idea of being able to pick up new calls almost instantly, with no 30-day delay. WKFM's Lakfield speculated, "That could open a lot of new radio wars."

One of the most controversial aspects of the FCC decision was abolition of the 30-day waiting period before dropped calls can be adopted by another station in the same market. But Arbitron spokesman Allan Coote didn't seem overly concerned. "While we see no immediate impact... there is a strong potential for isolated instances of listener confusion. These will require that Arbitron stay in closer touch with stations to be aware of call letter changes so we can continue to reliably and accurately record listening."

Coote expressed confidence that diary data like slogans and frequencies, plus close attention to the date of call changes, will enable Arbitron to credit listening accurately even under the new FCC rules.

### STATIONS CURRENTLY BROADCASTING WITH MOTOROLA C-QUAM STEREO

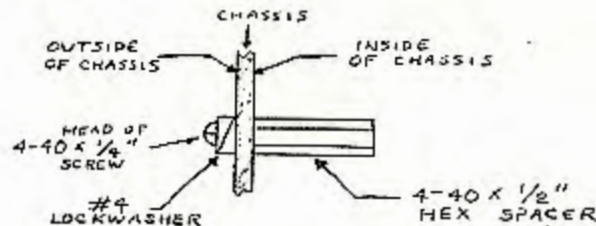
KRZY	1450	Albuquerque, NM
WASN	1470	Allentown, PA
WASG	1140	Atmore, AL
WCHL	1360	Chapel Hill, NC
KRQX	570	Dallas, TX
WJR	760	Detroit, MI
KQWB	1550	Fargo, ND
WQXT	1010	Garyville, LA
WGSW	1350	Greenwood, SC
CKOD	1150	Hamilton, ON
WIRE	1430	Indianapolis, IN
WNDE	1260	Indianapolis, IN
CKOV	630	Kelowna, BC
WITL	1010	Lansing, MI
CFPL	980	London, ON
XFI	640	Los Angeles, CA
XZLA	1540	Los Angeles, CA
WISM	1480	Madison, WI
WSM	650	Nashville, TN
CKNW	980	New Westminster, BC
KXXY	1340	Oklahoma City, OK
CKSB	540	Ottawa, ON
KGH	620	Portland, OR
CJCI	620	Prince George, BC
WHWH	1350	Princeton, NJ
KIPN	1350	Pueblo, CO
KKLS	920	Rapid City, SD
KYYX	680	San Antonio, TX
KPNB	760	San Diego, CA
KYA	1260	San Francisco, CA
KRDZ	1230	Stannboat Springs, CO
KJOY	1280	Stockton, CA
CPRB	1010	Toronto, ON
KRNC	710	Tulsa, OK
CJVB	1470	Vancouver, BC
CKMY	1130	Vancouver, BC
CKLW	800	Windsor, ON

VIA TUN  
COMMATER

## ASSEMBLY OF APT-2 TUNER

1. Read the entire article thoroughly to get an idea of how to prepare for APT-2 construction. Keep the article at the workbench, as it will be necessary to refer to it constantly.
2. Obtain necessary parts (see parts lists).
3. Organize work area: Ensure that area is comfortable, well-lighted, and sufficiently spacious. The following tools and shop supplies should be available: accurate steel ruler, calipers, or micrometer; sharp-pointed metal scribe; several sizes of Phillips and "regular" (flat) screwdrivers; nutdrivers for 4-40 and 6-32 nuts; variable-speed electric drill; drill bits (approx. dia. = 8.88 in.); small diagonal cutters; longnose pliers; slip joint pliers; soldering pencil (in the 25 to 45 watt range) with holder stand; rosin-core solder; solderwick; solder sucker; file; vise mounted on sturdy bench; X-Acto knife; hacksaw; and digital-multimeter or volt-ohmmeter.
4. Verify that hole locations and diameters in the documentation conform to the parts acquired. Adjust hold list (Table 6), if necessary, before proceeding.
5. Use ruler, scribe, and the hole list to mark hole locations on the chassis box. Push the scribe into the metal to a sufficient depth that the "pilot" drill bit will stay in place when preliminary drilling is done.
6. Drill all marked hole locations with the "pilot" bit.
7. Drill all holes with the .113 in. diameter bit.
8. Drill all holes listed as .14 in. diameter or greater with the .14 in. diameter bit.
9. Drill all holes listed as greater than .14 in. diameter and less than or equal to .25 in. diameter with the actual final size bit.
10. Drill all holes listed as being over .25 in. diameter with the .25 in. diameter with the .25 in. drill bit, and then with the actual final size drill bit.
11. Put chassis box aside (until step 18).
12. Enlarge the mounting hole of the Main Tuning Capacitor (C5) by means of drilling with a .113 in. bit.
13. Cut the perfboard (for the A1 subassembly) to correct size (1.4 in. x 1.4 in.). Cuts should be made along straight rows and columns of board holes.
14. Drill four .113 in. diameter holes at the eventual screw locations near the perfboard corners, as indicated in Figure 4 (the A1 layout drawing).
15. Mount components onto perfboard; refer to Figure 4 (layout), Figure 3 (schematic), and Tables 4 & 5 (levels 3 & 4 parts lists).
16. Connect components together on underside of perfboard; use busswire where necessary. The dashed lines in Figure 4 indicate physical locations of underside connections. The A1 schematic should also help. Solder the connections and cut off excessive leads. Screws, lockwashers, and solder lug will be added to A1 later.
17. Put the assembled A1 card aside temporarily.
18. Install hardware assemblies at TOP side chassis box holes 20, 21, 22, and 23; refer to Figure 6. The spacers thereby installed are used for subsequent mounting of the A1 card inside the chassis box.

FIGURE 4

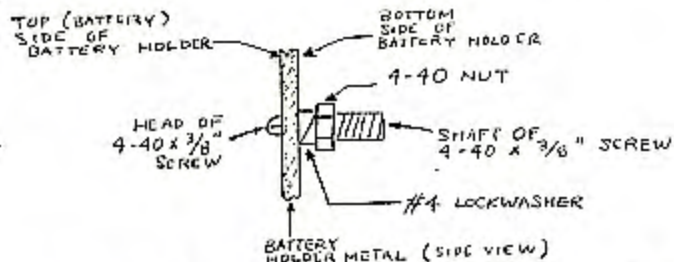


19. Four additional 4-40 x .25 screws, three #4 lock-washers, and a #4 solder lug should be kept aside for subsequent mounting of the A1 Front End Card (step 38).
20. Prepare the battery holder for mounting by installing two hardware assemblies of the type shown in Figure 7. One assembly is to be installed at each of the two holes on the battery clip. The nuts and lockwashers installed at this time are essentially being used as short spacers.

**KHOW** AM 63 /  
FM 95.7

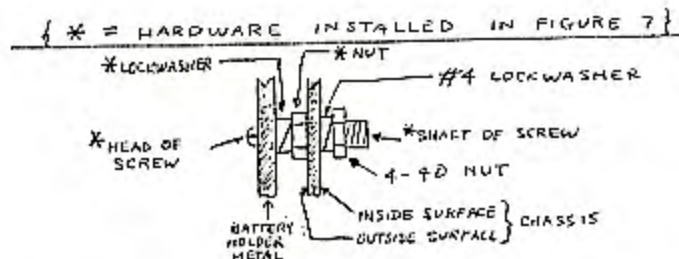


20  
FIGURE 7



21. Place the battery holder on the chassis box so that its connector clips are close to the right edge of the TOP side of the chassis. The screw shafts of Figure 7 should be inserted into TOP side holes 24 and 25.
22. Mount the battery holder to the chassis with hardware as indicated in Figure 8.

FIGURE 8



23. If desired, reduce the shaft length of S2, the 12-position switch; to about 8.75 in. (use a hacksaw, place shaft of switch in bench vise). Remove hardware from shaft (until step 26).
24. Assemble inductors onto the 12-position switch (S2): Start by locating the switch pin immediately adjacent to the locating tab (in a counterclockwise (CCW) direction, as viewed from the connection side (back) of the switch). Solder one end of the 4.7 mH inductor to that pin; leave the other lead free. To the next switch contact pin, going CCW (as viewed from back of switch), solder one lead of the 2.2 mH inductor. To subsequent (increasingly CCW) pins, install one end of each of the following inductors: 1 mH, 470uH, 220 uH, 100 uH, 47uH, 22uH, 10uH, 4.7 uH, & (finally) 2.2 uH. There will be one (outer) contact pin left open (that between 2.2 uH & 4.7 uH); the wiper arm (inner) pin will also, at present, be free of any connections.
25. Connect all of the free inductor leads together with a busswire to form a circular wire ring about an inch from the switch contact connection pins. Solder leads & cut off excessive wires.
26. Install the 12-position inductor (Freq. Range) switch S2 onto the chassis box; switch body inside box; shaft through TOP side hole 10; tab to TOP hole 11. Secure S2 by using the nut & the washer supplied with the switch.
27. Remove the OUTER of the two nuts from the shaft of the Main Tuning Capacitor. Do not disturb the INNER shaft nut. Set the outer nut aside until step 29.
28. Mount the Main Tuning Capacitor (C5) at TOP side hole 1 by using the hardware assembly depicted in Figure 9. The capacitor shaft should protrude TOP side hole 2.

FIGURE 9

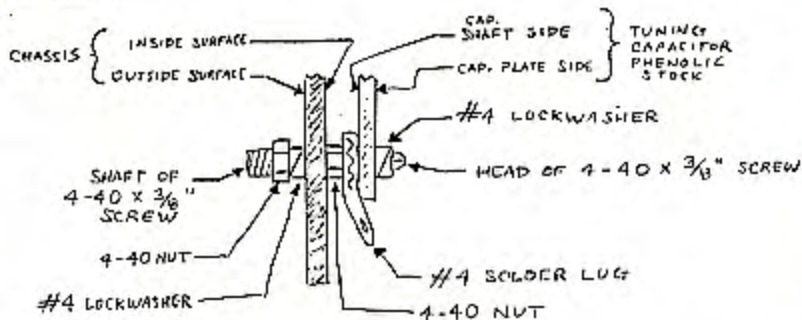
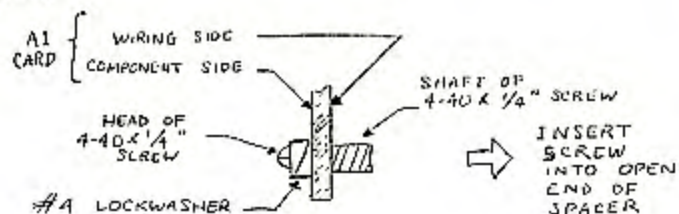
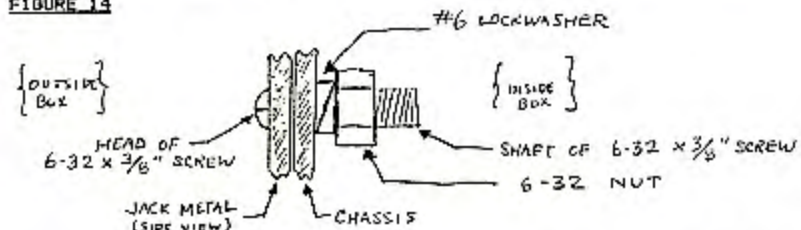


FIGURE 13



39. Install red banana binding-post Jack (J2) at LEFT side hole 5: use nut and lockwasher supplied with Jack.
40. Install black banana binding post Jack (J3) at LEFT side hole 4: use nut and lockwasher supplied with Jack.
41. Install Motorola Jack (J1) body through LEFT side hole 2. Position the screw holes on the Jack so they line up with LEFT side holes 1 and 3. Mount the Jack according to Figure 14.

FIGURE 14

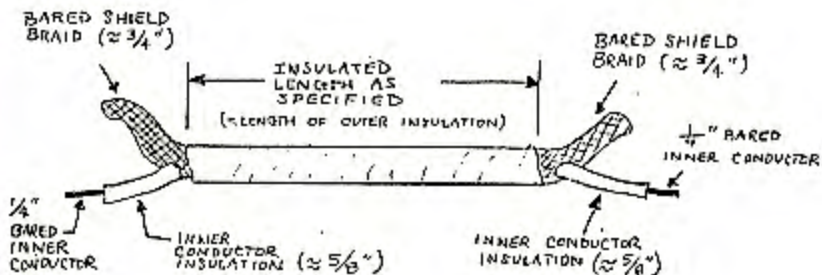


42. Install Motorola Jack (J6) body through RIGHT side hole 7. Use the same hardware scheme as employed in Figure 14; J6 is to be secured at RIGHT side holes 6 and 8.
43. Install the B+ feedthrough capacitor (C7) at RIGHT side hole 1: use hardware supplied with capacitor.
44. Install BNC Jack (J5) at RIGHT side hole 5: use hardware supplied with Jack.
45. Install the 500 ohm pot (R4) at RIGHT side hole 3 (shaft) and hole 4 (tab): use hardware supplied with pot.
46. Install (supplied) dial Knob on C5 (Main Tune Cap.).
47. Install Mouser type 42MN813 Knobs on the shafts of C6, S1, S2, R2, & R4.

Set pointers as follows:

- C6 Pointer at 3 o'clock with c' plates fully meshed
  - S1 Pointer halfway between 9 and 12 o'clock with S1 at most-counter clockwise (CCW) position
  - S2 Pointer at 6 o'clock with switch-contact at presently-open pin between the 2.2 uH and the 4.7 mH inductors.
  - R2 Pointer at 8 o'clock with pot fully CCW
  - R4 Pointer at 8 o'clock with pot fully CCW
48. Prepare five lengths of RG174 or RG188 coaxial cable in the manner shown in Figure 15. Three of the cables are each to have an insulated length of 3 inches; one should have an insulated length of 4 inches; and one should have an insulated length of 5 inches.

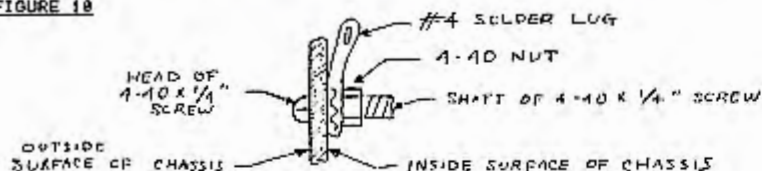
FIGURE 15





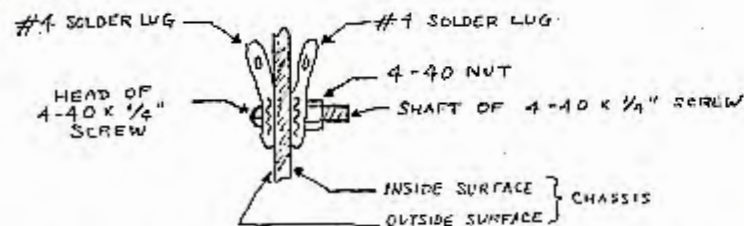
29. The shaft of the Main Tuning Capacitor should be secured by attaching the nut removed in step 27.
30. Place the Vernier Cap. (C6) inside the box so that its shaft protrudes through TOP side hole 5. The rotor lug of C6 should be pointing towards CS. Secure C6 by means of a 4-48 x .375 screw and M4 lockwasher at TOP side hole 7 and with the same type hardware at TOP side hole 6.
31. Mount the 4-position rotary switch (S1) by using the hardware supplied with the switch. The shaft should exit the chassis box at TOP side hole 7; the locating tab should be in TOP side hole B.
32. Mount the SPDT on/off/on switch (S4) at TOP hole 12 (shaft) and TOP hole 13 (tab on locating washer); use hardware supplied with the switch.
33. Mount the SPDT on/on switch (S3) at TOP hole 14 (shaft) and TOP hole 15 (tab on locating washer); use hardware supplied with the switch.
34. Mount grounding hardware assemblies: G4 at LEFT side hole 6, G1 at TOP side hole 9, and G2 at TOP side hole 17. Each assembly should resemble Figure 18.

FIGURE 18



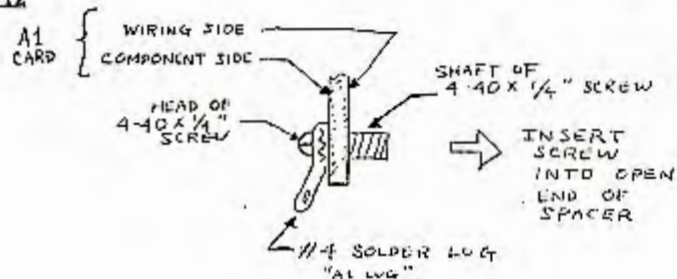
35. Mount grounding hardware assembly G3, in accordance with Figure 11, at RIGHT side hole 2.

FIGURE 11



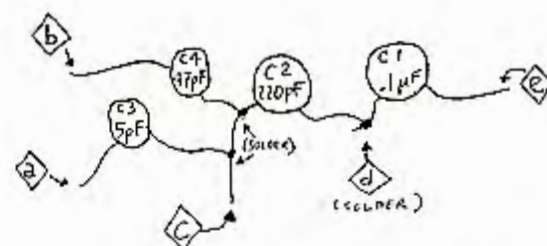
36. Install a BNC Jack (J4) at TOP side hole 14; use the nut & the lockwasher provided with the jack.
37. Install the 1K pot (R2) at TOP side hole 18 (shaft) and hole 19 (tab); use hardware supplied with pot.
38. Mount the A1 card on the four spacers installed in step 17. The component side of the card faces away from the spacers, the wiring side faces toward the spacers. The side of the A1 card with P5, the RF-out pushpin, should be oriented so that it is closest to, and parallel to, the inside of the chassis box RIGHT side (which appears to be the left side as you view the inside of the box with the bottom cover off). Figure 12 shows the hardware to be used at the 'card screw' location (the lower right corner of the A1 card if the card is observed from the underside of the box/component side of the card); this hardware mates with the spacer at chassis TOP side hole 23. Figure 13 shows the hardware used at the other three A1 card corner holes; these mate with spacers situated at TOP side holes 20, 21, & 22.

FIGURE 12



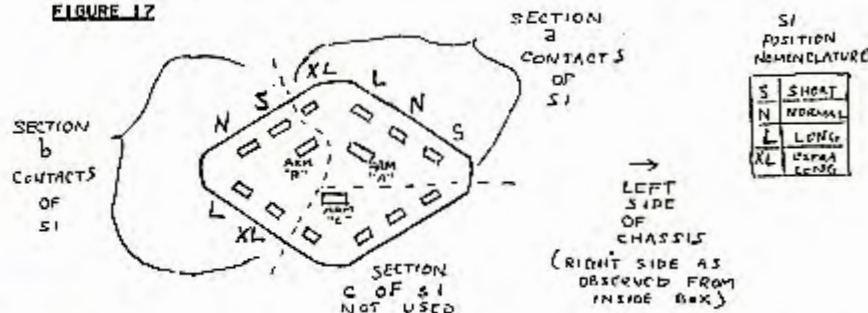
49. Use solder to 'tin' all bared leads of the above cables.
50. Fabricate the component assembly of Figure 16. Make note of the lead designations assigned.

FIGURE 16



51. Observe Figure 17, a view of the contacts of S1, the antenna Length Select switch, as seen while viewing the inside of the chassis box.

FIGURE 17



52. Connect (by soldering, then cutting excess leads) the component assembly of Figure 16 to S1 contacts of Figure 17 in accordance with the following list:  
 lead "a" to S1, section a, wiper arm  
 lead "b" to S1, section a, "N" contact  
 lead "c" to S1, section a, "S" contact  
 lead "d" to 2-inch piece of hookup wire  
 other end of "d" hookup wire to S1, section b, wiper arm  
 lead "e" to J1 (wire in Jack)
53. Connect a 47 ohm resistor (R1) from S1, section b, "XL" contact to the upper pin of S3.
54. Solder one (shortened) lead of a 150 ohm resistor (R3) to J5. Attach a .1 uF capacitor (C8) to the other lead of R3. (The lead length at the C8/R3 junction should be as short as possible). Solder the free lead end of C8 to the R4 CCW pin [the contact of the R4 pot which measures zero-ohms to the R4 wiper arm when R4 is set fully CCW as viewed from the outside (right side) of the chassis box].
55. Place a 22 pF capacitor (C18) from the upper pin of S4 to the lower pin of S4. Minimise lead lengths. Solder; then cut off excessive leads.
56. Solder the shortened lead of a 68 pF capacitor (C9) to the wiper arm of R4. Let the other C9 lead hang free, until assembly step 59.
57. Prepare eleven (11) pieces of insulated hookup wire, each with bared and solder-tinned ends of approx. 3/16 inch. The lengths of hookup wire to be prepared are as follows [lengths specified in terms of INSULATED length; add approx. 3/8 in. for total lengths]:  
 1 in. (2 pieces)  
 2 in. (5 pieces)  
 2.5 in. (3 pieces)  
 4 in. (1 piece)
58. Connect BARE SOLID BUSS WIRES (5 total); one wire (of the shortest possible length) between each following pair of points:  
 [1] J3 & G4 lug  
 [2] C6 rotor pin & C5 GND lug (that of Fig.9)  
 [3] C5 GND lug & C5 rotor lug  
 [4] upper pin, S3 & G1 lug  
 [5] R2, CW pin & G2 lug.
- Solder each connection & cut off excessive busswires.
59. Install the coaxial cables which were prepared in step 48; These should be installed in accordance with Table 7.  
 (Note: L ring is busswire ring of assembly step 25)



Insulated Length (Inches)	End 1 Innercond. to	End 1 Shield to	End 2 Innercond. to	End 2 Shield to
3	arm, S2	L ring	P1 of A1	P2 of A1
3	EXTL pin, S2	L ring	J4	G2 lug
3	P5 of A1	P6 of A1	CCW pin, R2	CW pin, R2
4	arm, R2	CW pin, R2	CCW pin, R4	G3 lug
5	arm, S4	G1 lug	C7 free end	G3 lug

All connections should be properly soldered and trimmed.

- 58/61. Install the hookup wires which were prepared in step 57.
60. The first 2 connections to be made are on the outside of the chassis box: [1] solder one end of a 2 inch hookup wire to the POSITIVE (+) battery bracket (J7) terminal; solder the other end of this wire to the external lead of feedthrough C7. [2] Solder one end of a 2 inch wire to the NEGATIVE (-) terminal of the (J7) battery bracket; solder the other end of this wire to the exterior G3 lug.
61. Connect (by soldering) 9 hookup wires on the inside of the chassis box in accordance with Table 8.

TABLE 8

Insulation Length (in.)	End 1 to	End 2 to
1	S4, upper pin	P1 of A1
1	A1 lug (Fig. 12)	P4 of A1
2	S1, section 2, arm	C6, stator pin
2	C6, stator pin	S2, arm
2	J5	J6
2.5	J1	J2
2.5	C6, stator pin	C5, stator pin
2.5	S3, arm	P3 of A1
4	S3, lower pin	C7

ASSEMBLY OF THE APT-2 TUNER IS NOW COMPLETED.

BEFORE "powering-up", check all wiring against the schematics (Figures 1 & 2 at the beginning of the article). Clean flux from all solder joints with a cotton swab dipped in alcohol. Use an air gun, if available, to blow wire, insulation, and solder scraps out of the chassis box. Screw the bottom cover onto the chassis box with the 4 sheet-metal screws provided with the box. Affix gummy labels, if desired, near controls and jacks.

You may now proceed to the section on Using the APT-2. It is best to practice using the tuner on the MW broadcast band during steady-state daytime conditions in order to gain familiarity with its operation; fading signals could confuse things in the beginning.

- 1.0 NORMAL TUNING (wire or Car whip operation)
- 1.0.0 Initialization
- 1.0.1 Set S1 to "extra-long" if wire length exceeds 300 feet in an area with no strong local stations [hereafter defined as "rural" area] or if antenna is longer than 200 feet in an area with strong local signals [hereafter defined as an "urban" area]. Set S1 to "long" if the antenna is shorter than the "extra-long" specification, but longer than 200 feet (rural) or 50 feet (urban). Set S1 to "normal" if the antenna is shorter than the "long" specifications, but longer than 20 feet. Set S1 to "short" if antenna is 20 feet or shorter. Double all length specs. if operating frequency is lower than 480 KHz.
- 1.0.2 Connect the appropriate antenna to J1 or J2.
- 1.0.3 Set S4 to center (regeneration off).
- 1.0.4 Set C5 & C6 to center (variable capacitors half-meshed).
- 1.0.5 R2 to fully counterclockwise (CCW); (maximum output level).
- 1.0.6 R4 position doesn't matter at this time.
- 1.0.7 Connect receiver, with coaxial cable, to J5 or J6. The receiver should be of a shielded (metal case) variety. A transistor portable radio can be used if its rod antenna is kept far enough from the wire aerial to prevent unwanted feedback and instability.
- 1.0.8 S3 (power) to ON (up).
- 1.0.9 S2, the frequency range switch, can be preset by referring to Table 1; this, however, is optional; S2 will be accurately set in steps 1.1.1 to 1.1.3.
- 1.1.0 Tuning
- 1.1.1 Run S2 through all of its positions; find the position which yields the maximum DESIRED FREQUENCY signal. (Don't peak on a spur!)
- 1.1.2 Adjust C5 for peak signal. If C5 yields maximum signal at fully open [16 on C5 dial], move S2 one step clockwise (CW) (=next lowest value inductor) and then repeat C5. If C5 had yielded maximum signal at fully meshed [5.3 on C5 dial], move S2 one step CCW (=next highest inductor) and repeat C5.
- 1.1.3 If, in step 1.1.2, a good peak couldn't be found, or, as the desired signal peaked, an off-channel station's audio simultaneously became clear (e.g. spur or cross-modulation overloading), set S1 one position CW (next longer-antenna position) and re-iterate steps 1.1.1. & 1.1.2.
- 2.0 REGENERATIVE TUNING for higher gain and selectivity
- NOTES: [1] With APT-2 design, regeneration is only used at frequencies lower than 2 MHz. [2] the battery must be "fresh" (7 volts minimum, loaded) for regeneration to work properly, even though "normal" tuning can be achieved with batteries running as low as 5 volts.
- 2.0.0 Initialization
- 2.0.1 Tune the antenna "normally" by performing all Part 1 steps.
- 2.0.2 Set R2 to fully CW (=minimum output level).
- 2.0.3 If operating frequency is less than 480 KHz, set S1 to "normal" and go to step 2.1.7.
- 2.0.4 Set S4 to Regenerate-A (Up) (C10 in regen. line).
- 2.0.5 Set R4 to center of range (pointer at 12 o'clock).
- 2.1.0 Tune/Regenerate
- 2.1.1 Slowly turn R2 CCW until the desired signal is just above the noise level.
- 2.1.2 Adjust C5 for peak; this will typically be at a higher dial position (lower capacitance) than had been set in the normal tuning procedure. If maximum signal occurs with C5 at min. C [= "16" on C5 dial], set S2 one step CW (next lowest inductor) and repeat C5. If, at any time, regeneration (squealing) breaks out, move R2 slightly CW until it stops.
- 2.1.3 After C5 has been peaked, gradually turn R2 slightly CCW in SMALL INCREMENTS, while simultaneously repeaking C5 after each incremental R2 adjustment.
- 2.1.4 When regeneration breaks out, or when selectivity is so tight that received audio becomes "mushy", carefully play C5 & R2 so that, to the best of your ability, you have a C5-peaked-signal condition at the 'borderline of regeneration', as set by R2.
- 2.1.5 At this point C6 (the vernier tune capacitor) and R4 (the regeneration vernier pot) can be "played" for fine adjustment of peaking and desired selectivity. Anytime R4 is adjusted, C6 (and/or C5) will have to be retweaked for a peak.

GOT A TOUGH STATION THAT WON'T ANSWER YOUR REPORT ?

OR

NOT GETTING GOOD RESULTS FROM YOUR CPC REQUESTS ?

It could be from the result that the station doesn't care about you or maybe just doesn't know why your writing to them. Your answer may be the booklet shown on the left, THE BROADCASTERS GUIDE TO DX. This tri-folded guide is for use with all your letters sent to radio stations. The guide explains the birth of DX'ing, how the National Radio Club was formed, and the importance of QSL's to DXers. This booklet is also available in French and Spanish too!!

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- 2.1.6 If, in step 2.1.4, regeneration did not occur, set R4 to min. R (fully CCW; pointer at 8 o'clock) and re-iterate steps 2.1.1 thru 2.1.5. If regeneration still doesn't occur, go to step 2.1.7.
- 2.1.7 If you could not achieve regeneration in the previous steps, or if the frequency is less than 480 KHz (from step 2.0.3), set S4 to Regenerate-B (down; C10 no longer in series with regen. line). Set R4 to center. Perform steps 2.1.1 thru 2.1.5. If, when doing step 2.1.2, a peaked condition cannot be achieved, set S1 one step clockwise (next-shortest-antenna position), redo step 2.1.2 and proceed forth from that step.

3.8 REGENERATING THE OUTPUT OF AN AMPLIFIED LOOP OR THE OUTPUT OF A PHASING UNIT (ACTIVE OR PASSIVE)

3.8.8 Active (=built in amplifier) Loop

- 3.8.8.1 Connect the loop initially to the receiver, peak desired frequency in normal manner with loop tuning capacitor. (Note that APT-2 isn't connected to anything yet.)
- 3.8.8.2 Position loop in usual manner to obtain null of "pests". Then, remove loop cable from receiver.
- 3.8.8.3 Set APT-2 S1 to "long".
- 3.8.8.4 Connect loop output HIGH (inner conductor of shielded cable from loop) to J2 of APT-2. Connect loop ground (cable shield) to J3 of APT-2.
- 3.8.8.5 Treat the loop output as if it were the signal from a wire. Perform part 1, starting at step 1.0.3.
- 3.8.8.6 Once the loop signal has been peaked through the APT-2 in the part 1 "normal tuning" manner, repeak the LOOP tuning capacitor, if necessary. Then, if necessary, touch up the loop's physical null position.
- 3.8.8.7 Regenerate by executing part 2 procedures, starting at step 2.0.2. (In step 2.0.3, don't change the position of S1).

3.1.8 Phasing Unit

- 3.1.8.1 Connect the phasing unit to the receiver and execute customary phasing procedures. Then, remove the cable from the receiver's antenna inputs.
- 3.1.8.2 If the phaser is passive, set APT-2 S1 to "normal"; if the phaser is active, set APT-2 S1 to "long".
- 3.1.8.3 Connect coaxial cable from phasing unit output and ground to J2 (HIGH) and J3 (GND) of APT-2.
- 3.1.8.4 Treat the phaser output signal as if it were the signal from a direct wire aerial connection: perform part 1, starting at step 1.0.3.
- 3.1.8.5 Regenerate by performing part 2, starting at step 2.0.2 (in step 2.0.3, don't change position of S1).

4.8 USE OF APT-2 AS LOOPHEAD TUNER/AMPLIFIER

NOTE: (1) The term "loophead", for the purposes of this discussion, refers to the actual pickup coil part of a loop antenna system.  
 (2) Two loopheads will probably be required for complete coverage of the 500 - 1700 KHz MW Band. Other heads may be fabricated for LW BC, 160 m, etc.

4.0.0 Preliminary Setup

- 4.0.0.1 Fabricate air-core or ferrite loopheads(s) to be used. These should be of a single-winding type with connections to be made at each end of the winding.
- 4.0.0.2 For each head, prepare a piece of RG174 cable of 2 foot maximum length. One end of the cable should be fitted with a BNC plug; the other end should have bared leads (shield and center conductor).
- 4.0.0.3 On each head, solder the bared center conductor of a prepared cable to one lead of the loophead winding.
- 4.0.0.4 Solder a short insulated hookup wire jumper from the prepared-cable bared shield to the other lead of the loophead winding.
- 4.0.0.5 Connect the BNC plug of the cable (whose other end goes to the loophead) to J4, the external coil input jack of the APT-2.

4.1.8 Normal Tuning of Loophead

NOTE: Receiver should preferably be of a shielded type so that unwanted feedback/undesired oscillation may be avoided.

- 4.1.8.1 Do not connect anything to J1 or J2 of APT-2.
- 4.1.8.2 If the receiver is being operated on batteries or if a cable greater than 3 feet is to connect J5 or J6 to the receiver, a ground connection to J3 is desirable. The ground chosen may be an earth ground rod or pipe, a mains ground, or a vehicle chassis ground.

4.1.3 Set APT-2 controls initially as follows:

- S1 to "long"
- S2 to EXT. L (6 o'clock pointer position)
- C6 to center (12 o'clock or 6 o'clock)
- R2 to fully CCW (=maximum output)
- S4 to center (regeneration off)
- S3 to Power On (UP)
- Position of R4 is irrelevant at this time
- C5 is to be adjusted in next step

4.1.4 Connect receiver to J5 or J6 of APT-2. Tweak C5 to obtain maximum signal at frequency of interest.

4.1.5 Position loophead for null of "pest" and/or peaking of a desired station.

4.2.0 Regenerative Tuning of Loophead

- 4.2.0.1 Perform steps 4.0.1 thru 4.1.5 as a prerequisite.
- 4.2.0.2 Perform these steps in the order indicated: 2.0.2, 2.0.4, 2.0.5, & 2.1.1
- 4.2.0.3 Adjust C5 for peak. If regeneration (squealing) breaks out, move R2 slightly CW until it stops.
- 4.2.0.4 Perform steps 2.1.3 thru 2.1.5.
- 4.2.0.5 If regeneration could not be achieved, set S4 to Regenerate-B (down) and re-iterate steps 2.0.2, 2.0.5, 2.1.1, 4.2.3, & 4.2.4.

NOTE: Frequency coverage range with a given loophead may differ in the "normal-tune" mode from that noted in the "regenerative-tune" mode. Normal-mode range is generally greater as the parallel capacitance of the regeneration circuit is not switched in.

5.0 LOOPHEAD INDIRECT COUPLER

- 5.0.1 The loophead may be placed closer to a wire, pipe, or electrical conduit to which a direct connection cannot (and/or should not) be made. One example is the conduit going to the electric meter on the outside of a house. Of course, the loophead, in this application, will not have nulling capability.
- 5.0.2 Position loophead near coupling source.
- 5.0.3 Perform "normal tuning" steps 4.1.1 thru 4.1.4.
- 5.0.4 Move loophead through various placements near the coupling source to maximize signal; then repeak C5.
- 5.0.5 Perform steps 5.0.2 to 5.0.4, then 4.2.2 to 4.2.5 if regeneration is desired.

-END-

# If the microphones in his museum could talk.

United Press International  
 MILWAUKEE — The microphones in Bob Paquette's microphone museum participated in some of the major historical events of the century, but always in a supporting role — always overshadowed by the figure standing behind them.

He has a small mike a CIA agent is said to have taken from the lectern at Hitler's hideaway at Berchtesgaden.

And there's one like President Franklin D. Roosevelt used to warm a war-chilled nation in his fireside chats.

The big black boxy one in the corner — that's a condenser microphone that traveled with Admiral Byrd on one of his Antarctic expeditions.

And over on the side is the kind that made the ladies swoon as it transmitted the silky tones of Ring Crosby to a nation huddled around their radios.

Paquette, 53, has been acquiring these since the 1950s and now has 700 — which he says is the largest collection in the country and probably in the world.

The Smithsonian Institu-



United Press International  
**BOB PAQUETTE**: Owns 700 microphones.

tion doesn't know about Paquette. They've borrowed his microphones and sent Mike Szymanski his way. That's kind of a check-for-me situation — they who started pulling up the gadget list for him.

"The Smithsonian refers a lot of people to me and that's surprising," he said. "The first time they refer-

red someone to me it scared me. It's always been a hobby for me."

His interest started with radios. As a fifth grader, Paquette beat a path to the neighborhood library, reading every book available on the talking machines.

Later he got a job with an electronics company and eventually started So-

lect Sound Service Inc., where he works today.

There are also books like "The Speaking Telephone, Talking Phonograph and other novelties," dated 1878.

He has some network microphones and microphones from motion picture studios — ones that no doubt have felt the signs of the famous. But they cannot talk, and their past have been lost forever.

"I know a lot of these mikes have been used by a lot of top people. A lot of them are NBC mikes," he said. "But how do you ever verify who used them?"

For all the information he's gathered on the micro-

phone, Paquette says he is still able to find more. The journalists "were busy chronicling the historical events — not the history of the transmitter."

"What I've gone through the years is to read all the original periodicals on the stuff and hooked up with all the people and talked to them," Paquette said. "It's amazing how little they knew about the industry. A lot of the old-timers only worked on one area."

C  
M  
C  
F



The basis for this article is actually quite old. I did a paper on the feasibility of a conversion to AM stereo when I was putting in time at CKEY-590 in late 1978. I don't know why I didn't adopt it at that time for DXB.

At that time the FCC was still up in the air on which way to go. There were five systems in competition at that time:

- Belar - AM/FM
- Magnavox - AM/PM
- Harris - CPM
- Motorola - CQUAM
- Kahn - ISB

Since Belar has dropped out of the picture, this article covers the other four. The actual realizations for the various systems may have been updated in the past five years, but as far as I know no major changes in concept have occurred. The following descriptions do not get too specific so that the material is still quite valid.

A number of features are common to all four systems. Each of the systems had its own strengths and weaknesses, as I shall try to point out.

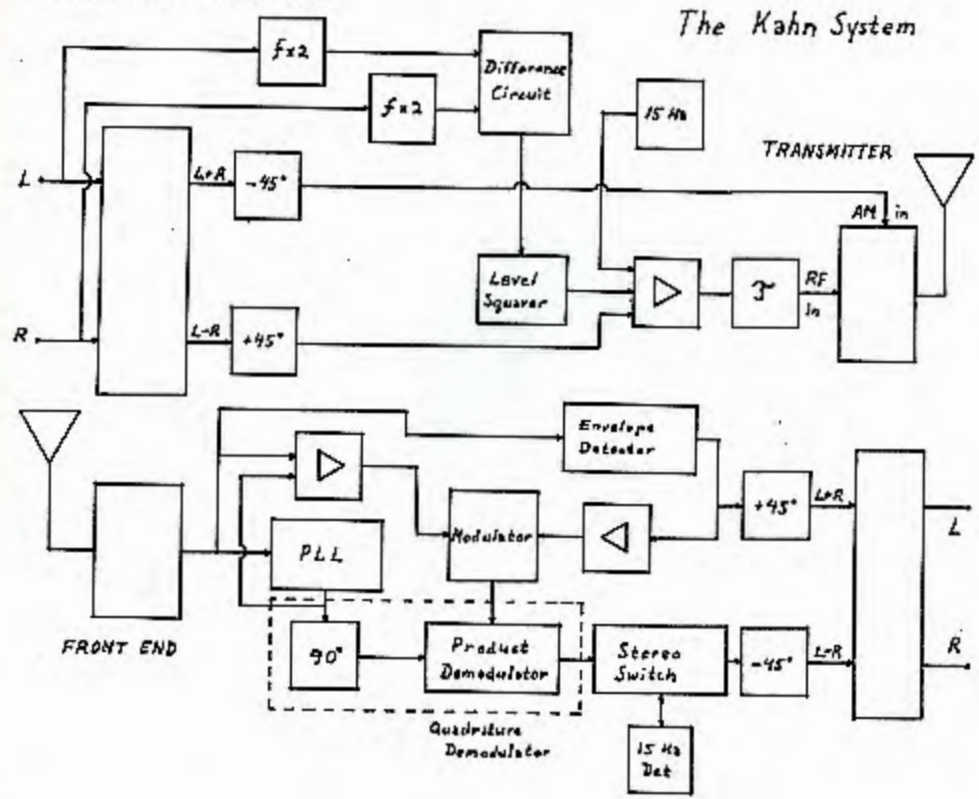
Common to all systems is the feature of matrixing. One of the initial criteria of an AM stereo system is that it must be compatible with existing AM radios on the market. In order to make a meaningful signal then, the left and right channels are summed together (L + R) and this is transmitted so that a conventional radio will receive a useable signal. The difference signal (L - R) is imposed on the transmitter in some other form to provide enough information that a receiver at the other end can once again separate the L and R signals.

In all designs the two matrixed channels go very different routes to the transmitter. This establishes a need for time correction networks to bring the L+R and L-R signals to a common time base. The time correction, which may or may not be explicitly illustrated on the block diagrams of the respective systems, restores something of the original stereo separation.

The systems all have some form of stereo indication information for the receiver. Tones varying from 5 to 25 Hz are inserted on the stereo (L-R) information and these tones are decoded at the receiver end to turn on a stereo indicator light and/or automatically switch the radio into stereo mode.

Let us turn to the individual systems:

Independent Sideband (ISB)



The Kahn System

Kahn Communications of Freeport N.Y. has been actively involved in the field of AM stereo since the late fifties (no kidding !!!) so the ISB system is the granddaddy of AM stereo.

To start with, (reference to diagrams) the L and R channels are matrixed to provide L+R and L-R. After the monaural (L+R) signal is phase-shifted  $-45$  degrees it is applied as amplitude modulation for conventional receivers. The stereo path splits - one path is phase-shifted  $+45$  degrees and sent to a summing amplifier. The other path is put through a frequency doubler and restored to the same time base as the first one before it too reaches the summing amplifier. The frequency doubling results in a dramatic increase in stereo separation, according to Kahn. This modified L-R conversion is sent to a phase modulator and impressed on the carrier at that point.

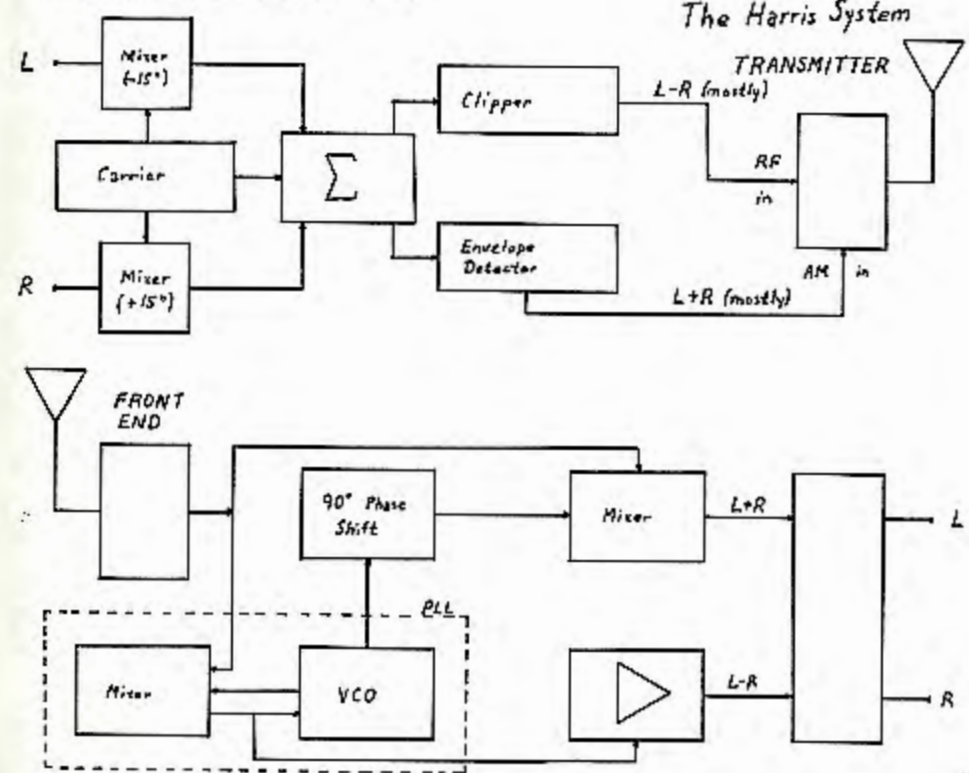
The advantage of this system is that the resulting pair of independent sidebands may be monitored by anyone with two monaural radios. (It was your Muse, erroneous, of Vol. 51 #3, Paul Swearingen, that put me onto the article in the first place...) The left channel can be monitored by tuning below centre frequency and the right channel by slightly above centre frequency.

The AM stereo receiver as proposed by Kahn is conventional from the front end through the IF stages. The monaural (L+R) signal is demodulated conventionally with an envelope detector and provided to the audio matrix. The stereo (L-R) signal is put through a phase locked loop and a quadrature demodulator before the product detector provides a useable L-R output to the audio matrix. Kahn uses a 15 Hz tone decoder to provide any stereo switching desired.

The primary difficulty inherent in this implementation stems from the numerous phase shift circuits, but a multiple IF stage design is conceivable with somewhat less phase manipulation.

The Kahn system is unique in providing independent sidebands. It has been claimed that the ISB system is relatively insensitive to ionospheric distortion, which theoretically makes it more DXable (are there any bodies out there who can substantiate this...???) and Kahn claims a relative insensitivity to full negative peak modulation, which allows those T-48 station to drive their transmitters hard and not splash onto neighbouring channels.... theoretically.

Compatible Phase Multiplex (CPM)



The Harris System



The Harris Corporation of Quincy Illinois has implemented a system it calls compatible phase multiplex. Instead of using a distinct audio matrix, the L signal is modulated onto a carrier which lags the reference by 15 degrees and the R signal modulates a carrier which leads the reference by the same amount. The linear sum of all three, including the unshifted reference is said to provide something approaching a coherent L+R signal and reduced L-R signal quadrature signal. A stereo identification tone of 20 - 25 Hz is inserted onto the L-R signal at this point. When I look at the vagueness of this description I don't wonder that Harris has been experiencing some distortion problems, as far as the FCC is concerned. I must confess, I have never sat down and taken a good look at the math behind the system.

This is a modified quadrature system, similar to techniques used to transmit two chroma signal on a subcarrier in a television signal. A conventional AM transmitter cannot handle CPM in this form, and the signal must be separated into its envelope and phase-modulated carrier components. These are then fed to the transmitter.

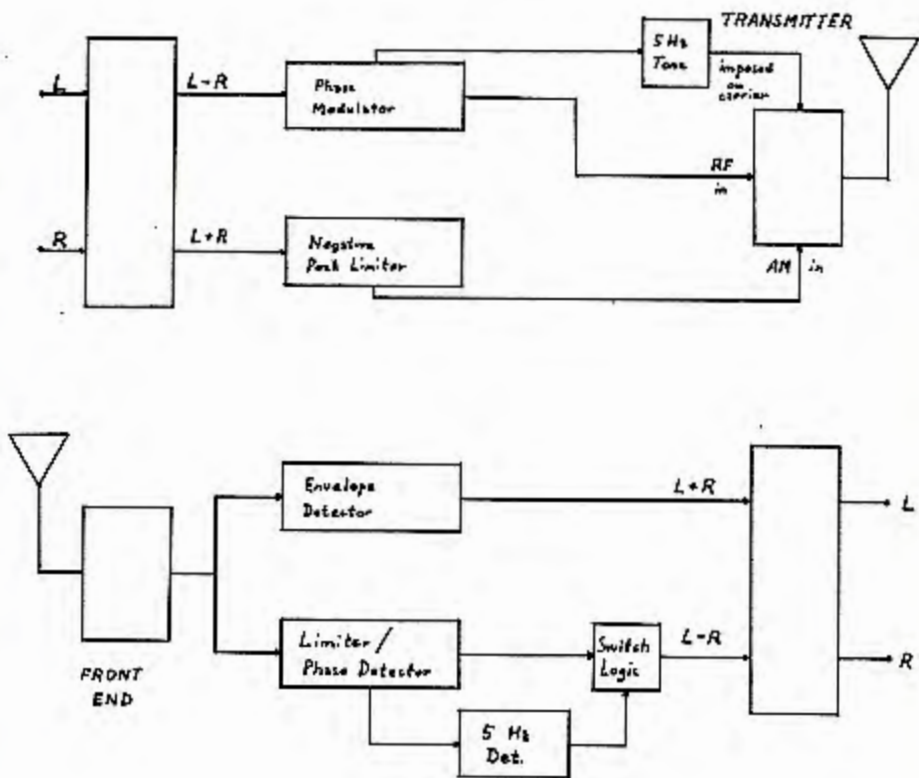
Receiver design is once again quite conventional until after the IF stages. The IF output is sent on the one hand to a phase locked loop consisting of a balanced mixer and a voltage controlled oscillator. The output of the PLL is sent to stereo tone identification circuits and to the audio matrix. Another output of the PLL is phase-shifted +90 degrees and added to another signal coming directly from the IF stages. This L+R signal provides the other input for the audio matrix.

Harris has placed an emphasis on compatibility and monaural signal quality. It has also been illustrated (by Harris) that the Harris system provides the least increase in spectrum width over a conventional signal. As it stands now, I believe the Harris system is the most popular in terms of the number of stations employing it. Correct me if I'm wrong.

AM/FM

Magnavox of Ft. Wayne Indiana came up with the system whereby the carrier is phase-modulated with the stereo (L-R) information and then amplitude modulated by the monaural (L+R) signal.

The Magnavox System



Firstly the L and R signals are matrixed to produce the requisite L+R and L-R signals. The stereo signal is time delayed and enters a phase modulator which imposes variations to a maximum of one radian (approximately 57 degrees) on the carrier. This signal is then modulated by the monaural signal.

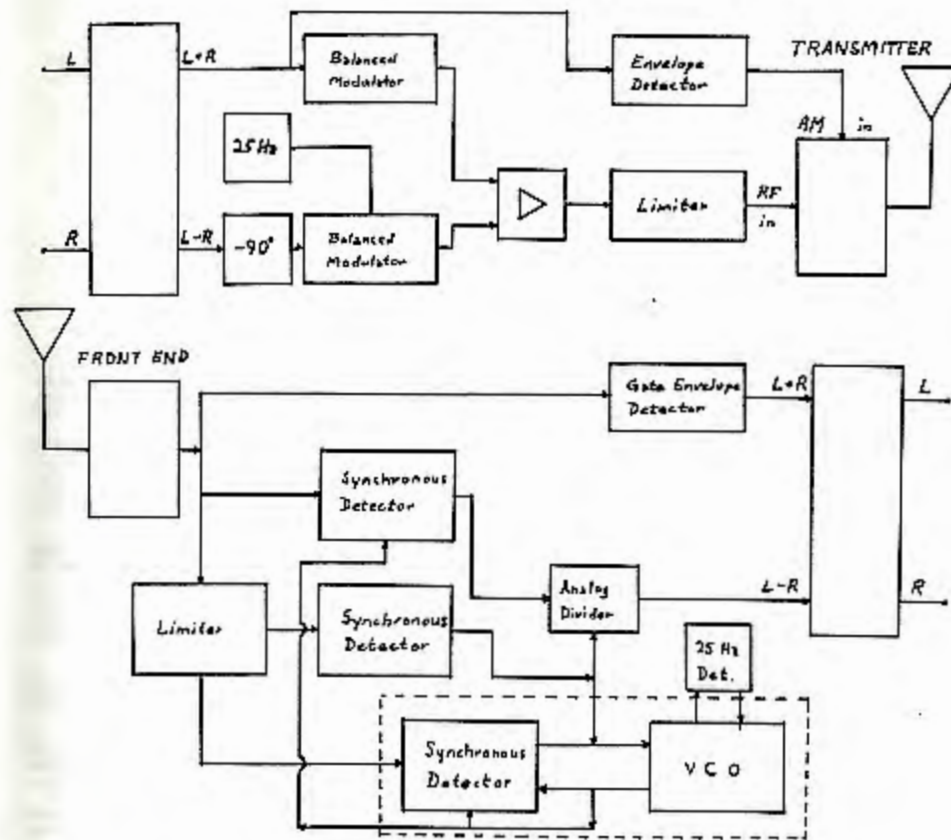
After a conventional front end and IF stages, the signal is sent to two destinations. The monaural information is detected conventionally in an envelope detector. The stereo signal is limited and demodulated in a phase detector. Part of this is used for the 5 Hz stereo signal detector and the other portion is tailored for the audio matrix after having passed the stereo switching circuitry.

As is fairly apparent Magnavox has emphasized the simplicity of implementation of the system. There is a problem with peaks of 100% negative modulation.

This was the system which the FCC decided on as the standard for the industry until the industry raised such a howl that the FCC relented and threw the market wide open.

C-QUAM

The Motorola System



Compatible quadrature amplitude modulation, as introduced by Motorola is a modified quadrature system also.

A straight quadrature system would, say, modulate the left channel 90 degrees ahead of the right. This would of course, not provide the necessary L+R compatibility to conventional monaural receiving systems. The modified quadrature system matrixes the L and R channels. The stereo signal is delayed by 90 degrees and summed to the monaural signal. The hard limiter produces a phase modulation and this is applied to the VCO of the transmitter, while the L+R provides the conventional amplitude modulation.

The decoding circuitry in the receiver is relatively complex. Naturally, up to the output of the IF stages, the receiver is of conventional design. A gated envelope detector provides the L+R signal to the matrix. Two synchronous detectors and an analog divider yield the L-R signal which is fed to the matrix also. The PLL and the 25 Hz detector extract the pilot tone which can once



again be used to switch on an indicator lamp or drive the control logic to switch into stereo mode.

Although the receiver is complex, the quadrature system does have some noise advantages over its competitors. And the complexity of the receiver, and approach to AM stereo in general throws the responsibility of fidelity squarely onto the shoulders of the receivers, which might not be a bad thing in the long run.

Of course, now that the Japanese so wisely have brought out systems to receive all four of the competing methods of transmission, the need to choose a single system is made obsolete. For the average consumer it makes little or no difference as to which system is employed by the station which he or she listens to. For us within the DX fraternity, the matter is not quite so clear cut, as the recent controversy with Harris points out.

Anim Litek

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# WGY, WGFM moves unusual

VIA XEC

By Martin Moynihan

The conventional wisdom of radio broadcasting, after stations WGYAM and WGFM-FM are doing some unconventional things.

Shortly after New Hampshire took over the two stations from General Electric Broadcasting Co., the 46 FM outlet fired its morning disc jockey and scheduled time slots for two weeks.

What the radio community is hearing about — and what some staff members admit privately has been behind — is that the major changes have come during the usual, 15-week "hurry" period.

At WGY, there it was purchased by Sky Communications of New York City, so personnel in a trade publication say in a genuine talk about the station's management.

Bob Cotnamer, inside the radio biz, as he has for several years, he said he is totally interested in keeping it in the public eye for a change for his own job. And he said he was encouraged to read in newspaper columns he had on the way out.

Personnel started changing at WGYFM even before the purchase was completed for two companies and two Tennessee GE stations by Sky Communications.

J.W. Wagner, former midday-disc jockey, who in the past year was transferred to weekend and production work, quit to take his old job as program director at WGYFM.

He may not be alone. According to one source who asked not to be identified "anybody is jumping to look over their shoulders."

Michael Neff, program director at WGYFM, doesn't see it that way at all. "What we've done is simply a management decision we'd make regardless of whether we're in a falling period or not. The old adage really doesn't apply anymore."

Neff says, "I think you'll find that people (decide) not jumping from station to station as much because pay scales will be all pretty much the same. There will be little reason to jump, except for higher ratings, maybe for a chance to get more people in hear you."

The people who bought bought WROW from Fortune 500 company Capital Cities own just two other stations, in Poughkeepsie.

Scott Communications, which owns a handful of AM-FM combinations outside the market, is now the biggest broadcasting chain in the Capital District, though Sky is a subsidiary of a company that owns 10 stations.

"So really the stations in this market are now owned by a lot of small corporations. And that's what you are going to run into," the station manager surmised.

"A lot of corporate dollars were formerly had here are going to be missing. The more talented announcers are going to be passing through the area faster, the Capital District will become a stepping stone more than ever before," he said.

At the eye of the hurricane it is quiet, Cotnamer says he feels reasonably secure from his company's assurances all is well.

"I appreciate the support I've been getting from folks, letters, etc. The ad has come upon the show," Cotnamer said.

Cotnamer said the rating for his "Contact Show" was 119 (the percent share of the metro market as measured by Arbitron) last time through, roughly the same as the last couple of rating books. That was good for a No. 2 rating overall on the top ranked adult station.

"WGY is a great radio station. I'm interested in staying as long as I can," Cotnamer said. WGY is hopeful of continuing to be the dominant station in the marketplace. "But it is a period of transition to new ownership, and the ad is a little unsettling. They are looking for a nighttime talk show host, and that's what I do."

The current rating period ends Dec. 14. Then, all bets are off once again.

(General Electric selling WGY-WGFM, Capital Cities Communications selling WROW AM and FM to smaller media chains). "You'll find less (personnel) advertising by the bigger stations, and news departments will shrink," a local station manager said.

"I think you'll find that people (decide) not jumping from station to station as much because pay scales will be all pretty much the same. There will be little reason to jump, except for higher ratings, maybe for a chance to get more people in hear you."

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# DUSTY DIALS

TOM FARMERIE  
62 SUNRISE AVENUE  
GRAFTON, MA 01519

As promised, here is the first edition of a semi-regular column that will continue documenting the histories of BCB DXing and NRC. The NRC 50th Anniversary Book was just the tip of the iceberg, so to speak.

First off, I have some minor corrections to the NRC Club History feature in the book. Kermit Geary sent these along: CPC Chairman for 1947 - 1948 was Ien Kruse, in the original slate of club officers C. G. Huber's title was Advisory Chairman, official NRC HQ was Buffalo N. Y. from October 1940 thru August 21, 1965 even though publishers were located in North Girard, Croton, Amarillo, and Kittingan. Thanks, Kermit!

After the book went to press, I discovered a complete identification list of the members in the 1939 NRC Convention photo. The list follows:

LEFT TO RIGHT BACK ROW: Elmer Wakaty, Ray Edge, Stephen Mann, Robert Breymaier, Max Dumaling, Harry Gordon, Tom Carberry, Jack Stringer, John Kalnboah, Bill Stone, Hans Jacobson, Fred Merritt, Merlin Steen, Francis Ribble, H. E. Herman.

SECOND ROW STANDING LEFT TO RIGHT: Grant Watson, Tony Evangelista, Ed Feichtner (behind Tony), Pat Reilly, Mrs. Joseph Schopmeyer (Joe Becker's daughter).

BEHIND NRC SIGN: Leo Herz, Mort Moohan, Fred Alfred, (standing) Bob Botzum, Curtis Dockweiler, William D. Stine, Dick Cooper.

SITTING LEFT TO RIGHT: Joseph Shopmeyer, (front) Harry Sands, Joe Becker, Francis Gheiner.

SITTING NEXT TO SIGN RIGHT SIDE: Nick Evangelista, Herbert Burstrom, Al Bartholomew, Harold Burstrom.

Based on my research, some ages at time of this photo were: Dick Cooper 25, Ray Edge 39, Pat Reilly 45, Joe Becker 52. Nobody in this picture is still a member, and I know of only two that are still alive.

Good friend Bill Bailey told me of a charming practice in the early days of DXing. This was faithfully practiced by both BCB DXers and amateurs. What they did was "polish their antennas", going up on the roof or wherever and using copper polish or whatever to polish the ol' skywire. Haven't tried it yet myself!!!

The beverage antenna has been around for over 60 years. Today's DXers are increasingly using it to combat the gallimaufric congestion of the band. Back in 1937, later-on club president, Harry Gordon (a.k.a. "Mr. Up Paul Knight"), mused on his spectacular set up of long wire antennae. While not long enough to properly be called beverages, they were, along with his super-quiet rural location able to haul in great DX:

Report by Harry M. Gordon in "DX NEWS", January 20, 1937:

HARRY M. GORDON, Eric, PA. - Here's the dope on my experiments with Aerials. The East Aerial is 700 ft long, tapped at the east end. The West Aerial is 1000 ft long, tapped at the west end. South Aerial is 600 ft tapped at the south end. North Aerial is 600 ft tapped at the north end. They are all 100 ft high, using No. 12 solid copper wire-enneled, with one aerial 100 ft long vertical. We have switches at the set so that we can use the directions that we want. In our past experiments we have found QRM on different frequencies, but by changing directions we can clear this QRM up, that's providing that the stations that causing the QRM are in different directions. Example: on 800 kcs at 10:30 A.M. we tuned in WTBO and could hear a station in the background, and by changing our Aerials we could log WFAA in Texas. Our East Aerial would place WTBO at an R9 signal and our South Aerial would give us an R6-7 signal, and would place WTBO enough in the background so that we could log WFAA with ease. At noon we logged WBAP by using our South Aerial. This applies to Cuban stations also. A little more on the WTBO and WFAA and WBAP experiment: by using our West Aerial our signal on WTBO would drop to an R5 and on WFAA and WBAP the signal would drop to an R3. Here's a list of stations heard on January 17: KXA 760 kc R8, KGHZ 1320 R6-7, KEHE 780 R8, KGU 750 R5-6, KFWD 950 R6-7, KFVD 1000 R5-6, KNJJ 1040 R7-8, KJBS 1070 R7-8 after CMX signed off, KIRO 710 R7-8, KYA 1230 R6-7, Focamp 1113 after 3 A.M. with their English program R6-7, and 1YA 650 R5-6. This station puts in the best signal on the West and South Aerials by using the two aerials together, giving us a large increase, although we can get them on the West Aerials. We are using a 3-stage preselector, using 135 volts on the "B" Battery



and a 6-volt "A". The preselector gives us a great increase in signal and more selectivity. Using a Philco Battery Set Model 30, 7 tubes, all-wave, with ground made off a water pump that is 25 ft deep. No power lines and telephone lines within 2 1/2 miles of the house.

The late great Joe Becker has few peers as a DXer. He was simultaneously the most beloved member in his day. Joe dropped out of the club around 1951, having given up DXing for health reasons. I managed to contact one of his children after the book went to press. Joe lived to the ripe old age of 85, passing away suddenly in 1972 while doing a crossword puzzle. Just one of his veries remains, and I obtained a copy of it. It was his most prized of all. From TJM Hamilton Bermuda only 7 1/2 watts! It will run soon in this column.

See you again soon with another edition. Send comments and suggestions on future topics you'd like to see appear.

46 San Francisco Chronicle 12/1/74

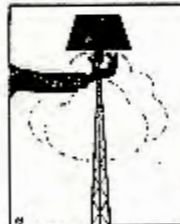
## GERALD NACHMAN

### All Out of Air

When Gerry Gordon turns out the light after signing off at KSFO one last time tonight, several listeners plan to bury their radios.

Gordon, who won't be returning when the station resumes under new ownership, was one of a dozen lifelong KSFOers who gathered Friday at Perry's for the fifth last supper that week. Gordon, who looks less like a DJ than a Hell's Angel, a big, bearded guy wearing an ivory tooth necklace, joked about working for a motorcycle magazine.

To his right was Buddy Hatton, who has been asked back. Hatton, like others at KSFO Jim Lange, Larry Jokes, Bob Holmes, has one of those chunky KSFO voices that tells you where you are on the dial.



Across from Hatton sat program director Alan Hotlen, who won't be back and was not chuckling. "It finally hit me today," said Hotlen, slouching into his seat. "I'm feeling terrible, but the day Sherwood died was worse."

At the other end of the table, next to host Perry Butler, sat beefy news director Jeff Scov, he of the booming voice, a definite Sound of the City who has never worked anywhere else. Further down sat Bob Testera, legendary longtime engineer. They're all out after 20 or 30 years, along with newsmen Aaron Edwards, who has seen 'em come and go but never thought he'd watch himself go.

It was a genial wake — not drunken, maudlin or jolly, just a bunch of colleagues having one last lunch. Perry Butler stood up and said bow, when he moved here in 1968, he tuned in 560, and "I've never had any reason to change the dial."

No one knows what will happen when King takes over. "Beats me," said Hatton. "Someone came up to me and said 'I'm your new producer' and I said 'Glad to know ya' it's a big mystery."

One rumor is that KSFO-II will be much more talk and less music, a shotgun wedding of Neil Diamond and Mel Tormé.

Apparently, the new policy will forbid playing anyone who's dead or isn't still recording, so Sirens and Sinatra will survive but Fletcher and Garland have had it, at least in this city. This also will finish Fats Waller and Hoagy Carmichael; tough luck, guys. Billie Holiday will have to stilt for herself or make the Top 40.

All is not lost. For Dan Sorokin is coming back, along with Gene Nelson, Carter B. Smith and Russ Syracuse, who passed their demographic tests.

The new owners have relied on the sage council of Magid Associates, the revered media medicine men responsible for making a joke of local TV news; they also fiddle with radio formats. Stations pay them great sums of money to do this.

Hotlen, a veteran of several "broadcast markets" (often called cities), said, "I've never been at a station that was so much a part of a city. Has anyone heard a word about KYA?" Nobody had.

The listeners are not sad, or nostalgic, just mad as hell. A cab driver told Hatton that on Tuesday he switches stations forever. A woman wrote: "I cried when Gene Nelson left and I'm crying worse that he's coming back."

Yet because KSFO isn't technically going anywhere, just being dismantled, the car personalities who are leaving — Jim Lange, primarily — have been denied departure with dignity.

Their farewell has been muted — mostly on-air innuendoes and gentle joshing, but not the sort of bitter Goodbye to All that a great tradition deserves. They've had to be good sports.

The DJs can't say what they feel, it seems, because King has bought the call letters and the good will that goes with it. Tomorrow, all that good will, to devoted KSFO listeners, will be worth about 72 cents.

It's like someone has come in and, overnight, stolen one of our hills.

CAPITAL DISTRICT'S 'GOSPEL RADIO'  
POST OFFICE BOX 384, TROY, NEW YORK 12181

### KKAR PLANS MID-1984 START L.A. Area Set For New All-News Daytimer

The News/Talk fray in Los Angeles will become more complex next year when a new all-news station begins broadcasting on 540 kHz from nearby Hesperia. The FCC has issued a construction permit for a 10x daytimer on the Mexican clear channel to the sole applicant, KKGO/Los Angeles owner Saul Levine, who expects to be on the air in mid-1984.

Levine told R&B the station will target Southern California commuters. He has applied for the call letters KKAR and plans to use the slogan "KKAR 54," playing on memories of the 1960s television show "Car 54, Where Are You?" He expects to affiliate with CNN Radio and use the ID Hesperia-Los Angeles.

Levine feels the station could reach an estimated ten million potential listeners, covering all of Orange County and large portions of Los Angeles, San Bernardino, and Riverside Counties. Owing to greater groundwave conductivity at lower frequencies, Levine contends KKAR will have the

equivalent of a signal "in excess of 50kw."

Levine, who first thought of applying for the channel 16 years ago, is convinced there's room for another all-news station in the market and adds, "We have faith in AM." Although all-news KXK covers most of KKAR's new territory, he believes "KKAR 54" will serve many areas not reached by two other News or Talk competitors, KPWB and KABC.

He continued, "I'm not at all unhappy that we have no nighttime authority. It all starts to go over to television in the late afternoon. You can probably shoot a cannon through the audience of most News/Talk stations at night." He expects KKAR to operate from 6am to at least 7pm.

Levine now uses CNN Radio on XSBIO/Healdsburg continuously from 5-8am and then hourly for the rest of the day. "It seems to be working beautifully at KSKO. I just think it's a sensational product," he commented.

By William Marvin

The following article is about aligning the HQ-188's IF stages without the use of external signal generators. Also this article was written with the non-technical person in mind who has the desire to keep his or her HQ-188 in top performance for years to come. As one progresses with the alignment steps which follow, I hope that this article will give the owner a chance to feel a sense of accomplishment and best of all the satisfaction of knowing the 188 is aligned for optimum performance.

The idea behind this article was started when I purchased a very nice HQ-188AC at a local hamfest. Upon bringing my find home and plugging it into the power source, it was apparent to me the 188 needed some tubes replaced and an IF alignment. The tubes were no problem, but IF alignment was a different story.

Being a electronic student at a local technical institute, I had access to some very sophisticated alignment equipment. The alignment almost proved as useless as the alignment instructions. Both were very time consuming and awkward to use. Who among us has the test equipment required, the patients of a saint and the arms of an octopus? Not I!!!

The first criteria on improving the alignment procedure was to exclude signal generators and voltmeters. Secondly, I wanted to omit the practice of hooking up test equipment to the circuitry located underneath the chassis. Third and most important, to make the alignment take as little time as possible and use few tools.

An idea struck me between the eyes ... Why not use the HQ-188's internal crystal calibrator as an artificial signal source and the S-meter as an output indicator.

All that is required is to tune the artificial signal through the many IF transformers for 'maximum' on the S-meter. Of course, it is important to know the many receiver knob settings.

Some lucky HQ-188 owners will find that they will not have to take the receiver out of its cabinet. The reason for this is that on some late model HQ-188's the 455 kHz transformers have tuning slugs that one can adjust both the top and bottom slugs from the top side of the receiver. My particular HQ-188 had to be taken out of its cabinet because the tuning slugs in the 455 kHz transformers have slot type tuning slugs, like a flat head screw, thus making adjustment of upper and lower slugs impossible to get at from only the top. To determine if you will have to remove your receiver from its cabinet take a light and shine it over the three 455 kHz IF transformers. (find on chart). If the 455 kHz IF tuning slugs have holes in the center to accommodate a plastic hex wrench then alignment can be made from the top for both upper and lower slugs. If the 455 kHz IF slugs have slots to accommodate a plastic screw driver then removal from the cabinet is a must, but most will find it quite easy to do so.

The alignment tools required are a small plastic hex alignment wrench that is commonly used on small TV transformers and a small plastic screwdriver both can be purchased from a radio and TV service shop.

So... all you fellow HQ-188 owner's get your 188 off the shelf or out of the closet and align its IF stages better than Mr. Hammarlund could have dreamed. But please don't blame me if you experience increased selectivity and sensitivity on the BCB DX'ing.

Believe me anyone can do this alignment quickly and quite painlessly on their HQ-188. Don't let the numerous steps bother you, they are quite simple. I have included a transformer location diagram to aid those who do not have the HQ-188 instruction booklet.... Have fun and GOOD LUCK !!

#### HQ-188 ALIGNMENT STEPS

1. Remove the 188 from its cabinet. (optional)
2. Lay the radio on its side with the power transformer nearest the table top.
3. Turn the power on and let the 188 warm-up for about a half hour.
4. Set ALL panel knobs as follows. (initially)

PANEL KNOB	POSITION
Band Selector	7.85 - 15.35 MHz Band
Bandspread Dial	180
AM-SSB-CW	AM(Mode)
Sideband	Both
Selectivity	2 KHz
Stat Frequency	9 o'clock
BFO Control	B
Noise Limiter	OFF
AVC	FAST



Antenna  
Send-Receive-Cal  
Audio & RF Gain  
Vener Tuning

Maximum Signal  
CAL  
AS NEEDED  
8 KHz (12 o'clock)

5. Attach an antenna, speaker or headphones.
6. Tune in WWV on 16 or 15 MHz for maximum S-meter reading.
7. Locate crystal calibrator trim capacitor (see location chart) near tube VII on the top side of the chassis to zero beat the calibration signal with that of WWV.
8. Set the Selectivity switch to .5 KHz position, sideband switch to U, Band Selector switch to .54 - 1.85 MHz.
9. Disconnect the antenna.
10. Tune in the calibrators signal a 1 MHz (1.8) for maximum signal indication on the S-meter. NOTE: As alignment proceeds keep the calibrators signal at half scale on the S-meter by adjusting the RF gain control, this insures maximum sensitivity.
11. Locate the 60 KHz IF transformers T6, T7, T8, T9, T10, and T11 on the location chart. Adjust the core slugs starting with T6 through T11 from the top side for maximum signal indication on the S-meter. This completes the 60 KHz IF transformers... wasn't that easy?
12. Turn the mode switch from AM to CW position.
13. Set the BFO control exactly on '8' KHz.
14. Locate T28 on location chart. Turn T28's slug for zero beat (no tone) in speaker or headphone.
15. Turn mode switch to SSB from CW position.
16. Switch the selectivity to 3 KHz from .5 KHz and put the sideband switch to Both from 'U' position.
17. Set the Vener Tuning control to the 12 o'clock position.
18. Locate and zero beat a stations carrier on 798 KHz or 1588 KHz with the Main Tuning dial. Find the location of L4 on the location chart. This transformer, L4, is for adjusting the 395 KHz oscillator. When adjusted exactly the 395 KHz oscillator will produce a beat tone or heterodyne at 798 KHz and 1588 KHz. Once the 798 or 1588 KHz stations carrier is zero beated by adjusting the main tuning dial, turn L4's slug so that the oscillators signal is zero beated with the stations carrier, for maximum background noise, on either of the two frequencies chosen. NOTE: L4's adjustment will also affect dial calibration.
19. Turn mode switch to AM from SSB.
20. Locate crystal calibrators signal at 1 MHz (1.8) on main tuning dial. Peak signal on the S-meter.
21. Locate 455 KHz IF transformers T3, T4, T5, and T1. Adjust both top and bottom slugs of T3, T4, T5, and only the TOP SLUG of T1 for maximum reading on the S-Meter.
22. Turn bandswitch to 7.85 - 15.35 MHz band and tune in the calibrators signal anywhere on this band.
23. Find the 3035 KHz transformers T1 and T2 on the location chart. Adjust the bottom slug of T1 and the single slug in T2 for maximum reading on the S-Meter. NOTE: When adjusting T2 it is a little difficult to get at from the top due to the Slot Frequency Assembly above it. Also T2 has very broad tuning, peak so adjustment isn't critical.
24. Turn power off and return the 100 to its cabinet. (optional)
25. Find Slot Frequency Assembly located behind the upper right of the front panel. Turn power back on and let the 100 warm-up for about 10 minutes.
26. Turn bandswitch to .54 - 1.85 KHz and locate the calibrators signal anywhere on this band and peak it on the S-meter.
27. Turn the Slot Frequency control on the front panel to the 12 o'clock

position. (8 KHz) Adjust L3 located behind the front panel with the plastic hex wrench for minimum on the S-Meter, be careful, it is easy to miss the exact null point, so take it slow. When maximum null is reached turn the depth control for further reduction of the S-Meter signal. It may be necessary to go back and forth till no further minimum can be achieved on the S-Meter.

28. Return the Slot Frequency control back to the 9 o'clock position and turn the crystal calibrator off. Hook-up your favorite antenna and get ready to do some top notch DX'ing.

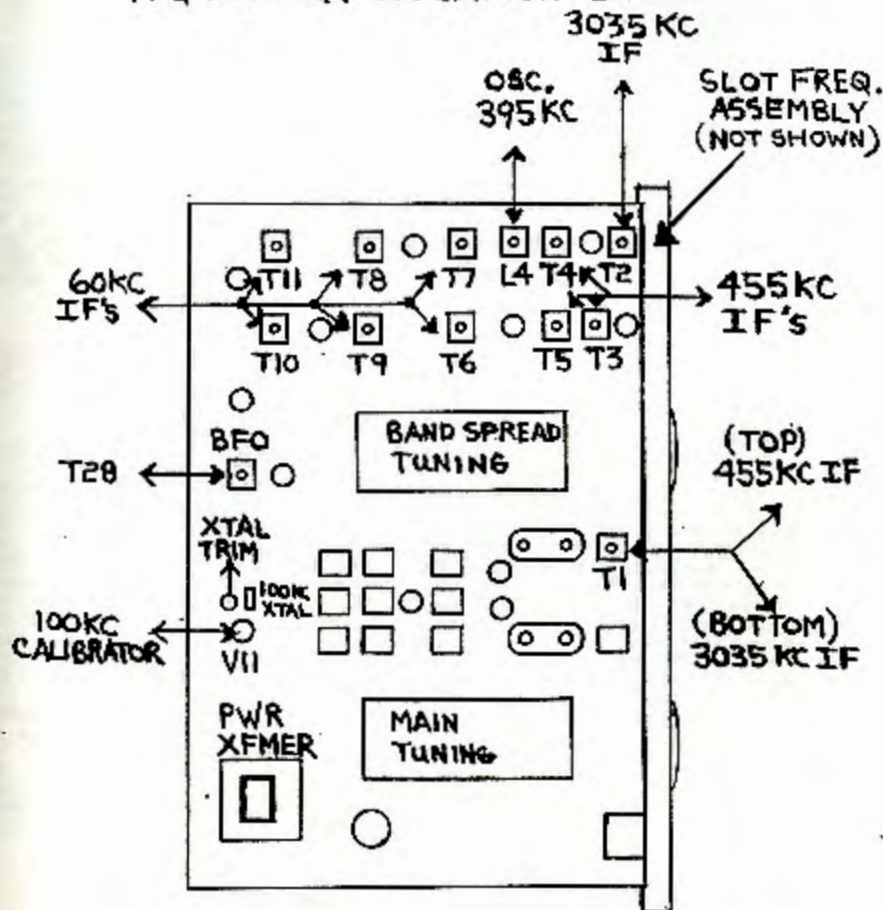
#### ADDITIONAL COMMENTS:

Congratulations for a job well done !! I hope you didn't have any problems. If a problem does arise feel free to call me in the evening at 1-715-394-5758, NO COLLECT CALLS, ask for BILL. Also I would like to mention and thank DICK TRUAX for inspiring me to write this article, testing the alignment on his HQ-188 and for re-writing many parts of the instructions that needed re-working. Again thanks Dick.

#### REFERENCES:

\* = Lankford, Dallas. A QRP DX'er's Review of Hammarlund HQ-100 Series Receivers. NRC REPRINT RR-18 (Oct. 77) p.4

### HQ-180 IF LOCATION CHART





The opinions expressed in this column are those of the individual members, and do not necessarily reflect those of the editors, publishers or NRC.

Welcome back ... after a week's vacation. I hope that Santa stuffed your stockings with the appropriate DX goodies. Deadline for the Jan. 23 issue (#15) is Jan. 7, and the #16 issue's deadline is Jan. 14. Remember that we'll be highlighting first-time Musers' contributions in the #16 issue. Now, here, we go with a record-breaking column ...

Mike Reid - 189 Arjay Cres. - Willowdale, ON M2L 1C6 (pm 11-27; rec'd 12-1)

I'd like to start off my last Musing by mentioning that I would like to have been at the convention this year but the ol' funds were getting a bit low. Even with the MTFDA convention being my cheapest ever. A record that will be broken by ANARC next year. I did send a form to Ron and a letter later on to pull out. The loss was lessened by the fact that I saw Vermont for the first time on TV in my career which started in 1962, although continuous from only 1978. This happened 9-4. I feel that ELT should be the standard time for Musings. There should be one standard. Back when IRCA used EST all year, I kept my "DX clock" on EST and had no trouble with conversions. I should explain that my departure from this club has nothing to do with the so-called "worse conditions" present today. Nor is it due to the fact I DX PM. Instead, MW DX simply lost its appeal, something that happened in 1972 also. Back then I thought I was out for good. This time, I'm not being so definite. I returned in '79. When I read the article on the Golden Age, somehow I could hear violins playing in the background. It seems every ten years or so, someone is saying how great things were 10 years before. Yet, if you look back, you'd find people complaining about the earlier time. Despite the changes, this hobby does continue to attract new people anyway. In my own case, I had a better time in the '79 to '81 period than the '67 to '72 period. It is true I was learning about the hobby in the earlier time, but in the more recent time, I almost doubled my totals (now over 800) from earlier. That first batch (around 432) included locals and posts. Almost all of my most memorable catches date from the more recent period. Some would consider these numbers small, but I consider what I got in the past few years (380a; too many to list here) to be an indication of what can be done today. There's plenty out there, folks. Now, about QSL'ing: I don't consider the amount of QSL'ing I do to be a measure of the seriousness of my DX activity. I've QSL'ed during light periods and not done it during heavy ones. I have taped on many occasions, though. In my TV career, I have not QSL'ed, taped, or photographed some of my best catches, yet I don't consider my DX there to not be serious. Getting the signal is the main idea to me. By the way, I once got a friendly negative reply to a tentative report from Gary Hill, CE of KTGR-158B. Maybe a CPC possibility? 73's.

Bill Hardy - 2301 Pacific Ave. - Aberdeen, WA 98528 (pm 11-29; rec'd 12-1)

A strong windstorm on Sat. 11-19 toppled one of the two towers at local NSP'er KXRO-132B. They stayed on the air that night and 11-20, using 1 kw nondirectional. But the FCC ordered them to leave the air at sunset 1-21 (4:45 pm PST) and stay off till sunrise 11-22, 7:15 am. They went off again from 4:45-5:38 pm 11-22 while they retuned the 1 kw night mode to reduce power to protect CHQM, which is ridiculous because CHQM is supposed to protect KXRO but has not since 1976! A new tower arrived 11-22, and the 1 kw-DA-N is supposed to be back in service by the time you read this. After the 11-19 storm, weather improved for two days and we spent Sun. 11-20 at Ocean City State Park again. Storm fronts evidently weakened conditions to the east and north, so the best DX came from points south to southeast, such as western Oregon, California, and such. Two new loggings that evening, KMJJ-1140 Nevada 4:19 pm PST, atop KRAK with an ID in the "Countdown America" show, and much-wanted KSDO-1130 San Diego, fairly good in CRWX null, "KSDO News Update" by YL 6:59 pm between NBC Talknet and CBS News, including Charger football plug and jingle ID. Also noted unun KUKK-1360 on fulltime, as mentioned last Musing. Mon 11-21: Still camping: 8:03-8:14 am KRVC-730 excellent, Oregon news by YL, local ads, several IDs into Contemporary Christian mx. 8:35-8:55 am and beyond, KZZI-1510 Utah good to poor, very little KGA, Spanish ranchera mx, definite "Kah-zeta-zeta-ee" 8:51 1/2 am. Had to sit on KBCH-1400 10:15-10:33 am to get a positive ID. Good signal, lots of standards and nostalgia mx, talkative "old" man DJ to match, lots of local ads, mentions of the ocean, tides, Oregon coast, etc. Finally 10:33 am KBCH sales manager promoted advertising on KBCH. Interestingly, KIVR near the California border was in quite late that morning along with KBCH. Sat on 1510 again 10:45 am-12-15 pm, hoping for an ID from KKNW, one of my closest unheards, but no luck. Lots of rock music back-to-back, on "Magic 15" mention, but fair to poor signal usually under KGA! So we headed home. 73 and good DX.

WTHH am WNKO fm  
STUDIO AND TRANSMITTER  
LOCATED AT  
1000 NORTH 40TH STREET  
NEWARK, OHIO 43055



John R. Malicky - 995 Shadycrest Rd. - Pittsburgh, PA 15216

Happy New Year! Is it really 1984? I hope it will be a great year for everyone and for the NRC. Now to November's DX highlights. Any new sta is underlined. On the 6th, 2 stations on 1220 snuck through WGAR, WENC Whiteville, NC signing off at 5 pm EST and WAXO-Lewisburg, TN with s/off at 5:47 pm. Also on 1050, WTSJ-Cincinnati "The Sounds of Joy" left the air at 5:31 pm; and a v/i from Chris Roberts who enjoyed my letter and thought I wrote the s/off down real fast, but I should have mentioned I used a tape recorder. He also mentions that he is an AM DX'er; I guess I should get him to join, right, Paul? (Yep; every CE a potential Muser, hi -pls) A word of warning - always have your tape player ready - I didn't for just this one time and missed the s/off of WKBY-1080 in Chatham, VA on the night of November 11. We were getting 5" of snow that night and the band was quiet, but I did hear WKBY and quickly wrote as much as I could from them at 5:13 pm. Later, WSLV-1110 in Ardmore, TN came over WBT with local nx at 5:28 pm then faded, and came back at 5:43 pm to s/off mentioning Southern Gospel. At 5:41 pm, WAMG-1130 in Gallatin, TN came in with some local nx and s/off 4 minutes later. A v/i from WAMG said my information was not correct, but the s/off was so I got the confirmation! Finally, W5JP-1130 in Murray, KY came in for 10 minutes at 5:52 pm with c/w mx, KY and AP nx and an ad before KWKH came in. Another strange night: the 15th I did not hear any eastern or western stations from 1500 to 1600, but instead in their order WBSO-1550 at 5:04 pm; WGSR-1570 at 5:12 pm; WHOQ-1570 at 5:24 pm; WSSA-1570 at 5:30 pm, WATM-1590 at 5:32 pm; WMPM-1580 at 5:48 pm; WRDN-1600 at 5:50 pm; WSDL-1560 at 6:00 pm, and WKWF-1600 at 6:06 pm. It is ONLY the 2nd time I've ever heard WKWF which is in Key West, FL; WRBN in Warner Robbins, GA, and WSDL in Slidell, LA, I needed and sent reports. Also, at 5:30 pm, Bahamas was coming in well with distortion on 1540 for more than 1/2 hour! The Caymans on 1555 at 6 pm was just heard giving nx, but not well enough. The last unusual night was on the 17th when I heard WOPJ-1880 at s/off at 5:15 pm, WZZY-1440 in Cowan, TN and by their announcement "The voice of the hogs at s/off at 5:46 pm; Nc radio 1460-WWCN in Albany, NY coming in well, but fading at 6 pm with CNN nx, and back-to-back with different nulls on 3WD-1430 in Panama City, FL, an xnt copy of c/w mx and local ads at 6 pm and WJRB-1430 in Madison, TN with c/w mx and nx at 6:24 pm. Let time I heard from WJRB was when it was WENO in June of 1971! Finally, heard the test of WLNT-1140 at 12 am on 11-21, but conditions weren't good enough, although I did call the CE and he said he might reschedule another one later as I did mention WRVA is off Sunday, but thank, T. C. I! Sorry this was so long; more stuff next week. 73's.

Jeff Kadot - W3CRH - Box 20 - Macomb, IL 61455 (pm 12-3; rec'd 12-6)

(309) 833-1889 Keep EST! Why tamper with something which has worked successfully for so long? I just got a new toy to play with. It's an ICOM-745 which is their answer to the Kenwood TS-430. It's a ham transceiver, but also a hot general coverage receiver from 100 kHz-30MHz (there's another example of stupid tampering, changing kilocycles and megacycles). The unit has a separate connection on the rear for a medium wave antenna and it seems to work very well on BCN. They put a 4 kHz am filter in this one instead of the 6 kHz one in the R70, so it's better on splits. Audio quality is quite respectable and it comes with a tone control which helps. It's also got 16 programmable memories (including mode) plus memory scan and bandscan (great if you have some time to kill and want to listen to everything between 100 kHz-30 MHz, hi. Another useful endeavor is to scan between 1600-1800 kHz at night and pretend you're in "Star Wars".) The set is also lightweight, comes with a leather-like handle, and can be used mobile. Effective passband tuning, IF shift, decent notch filter, and a noise blanker which works on the Woodpecker are other features. Only one minor problem: the notch pushbutton won't stay in. I used my Drake R7 as a trade-in (got \$610 for it; it's a shame no members wanted it). After using the R7 for about a year I decided to give it the heave-ho for a few reasons. Most importantly, it was just not that much fun to use. Only real complaints about it were its dismal notch filter (a serious problem and I'm amazed that Drake couldn't do better) and (to me) an inordinate number of internal birdies. The advantages of the R7? Decent filter options and their infamous AM passband tuning. I also liked the way it looked, hi. To Mr. ERC: The term "old man" is a form of endearment and has nothing to do with age. I was called an "OM" when I was 12. WHEN-570, the carrier current station at Western Illinois University in town, has bumper stickers. If anyone wants one send an SASE. 73.

Daniel Bartok, Jr. - 388 E. 2nd St. - Wahoo, NE 68866 (pm 12-6; rec'd 12-9)

Not much new out here! There was a bad snow and sleet storm I missed by going home to NY over Thanksgiving. Ok by me. Flew back to Omaha airport Sun. pm. Had a flat tire. Some days, etc. Such is life! To many more important things to worry about! Paul, if you mated your Dodge Colt (the older one) and a Mustang, would that make a wild pony? Humm!! (hi) (It might make the California DMV wild, hi -pls) Got here to Wahoo later Sun pm. High point of day was hearing CBL-740, ON (Toronto) on Sony Walkman AM/FM radio - excellent audio quality. Too tired to DX, though. Belated Happy Hanuka and Merry Christmas to all our NRC members worldwide! No new DX to speak of this season, though. Now if I could just verify Nibi Nibi ... 73's.



Ronald Purdue - Route #1, Box 224 - Byron, MN 55928 (pm 12-2; rec'd 12-5)

As a new member to the NRC, I'd like to muse in DX News. III, there! This is my first report to Musings. I started DX'ing in 1969 with an old Realist Astronaut-5 Portable and in 1970, I bought a Realistic DX-120 (a couple of junkers). Then in 1973, I bought a Realistic DX150B (a better-built receiver). Then in 1979, I bought the DX-300 which works quite well (except for the overloading problems) with the Palomar engineers loop antenna at 20 db attenuation. Did you know that TA reception here in MN is possible? Well, it is; I have picked up hats (sometimes loud ones, too) on 702, 1061, 1404, 1457, 1586, and 1593 in the past. Between 0100 and 1030 GMT on 11-11, a hat on 1161 came in and out several times; it wasn't TVI (the TV was on in the next room during that time). I suspect it was France. I am hoping that the A-index will stay below 5 for a week before I make any more attempts on TA's. Does anybody know where KAXI-1300 is from? It was coming in at 1910 ELT and KGLD-1300 in Mason City, IA was coming in too strong. 73 and good DX. (And welcome to you, Ron; perhaps your next Muse will have definite ID's from TA's! -pls)

Richard E. Wood, Ph.D - College of Education - P. O. Box 959 - Abha, Saudi Arabia (pm 11-30; rec'd 12-9) It appeals to my Scottish heritage (I was born in Dundee) to receive the 11-21 DXN postmarked 11-17 and marked "surface mail" in (unnecessarily?) large letters, on 11-28 - delivery was obviously by airmail anyway. And congrats to Guy Kudlemyer on an Informative Musings in that issue, with good tips on high school football as a good source of DX loggings. As I never attended a U. S. high school or played U. S. sports, any info on this is part of my education now. Also in that issue, congrats to new Hawaii resident (malihini, in Hawaiian) John T. Arthur for an akamai (on the ball) bandscan from Pahoa. Contains several which I did not catch in my old Lanikai (Kailua, Oahu) days or on my summer trip this year, notably KBAI-1150 Morro Bay, CA, KNCO-1250 Grass Valley, CA, KVAN-1550 Vancouver, WA, and KNIX-1500 Phoenix. With Mauna Loa between Pahoa and Kealahou, KABC-790 CA should be easy there, over or under KKON HI. Also, at least with a loop, things like CBU and XETRA-690, KUGN-OR 590 and others on Honolulu channels. Was surprised to see XYJC OR as the only listing for 618. I found KPFC CA more frequent. A frequency which was blank in John's list, but which provides a good example of a regional channel dominated by a state not touching the Pacific, is 638, which in Hawaii usually shows KIDO ID, with similar-sounding KIDD CA in second place. The pending move of KIPO-1350 HI to 570 should free that channel, but the new station in Lanai City, the first on "Pineapple Island", will block 1380. Rumor had it this summer that the pineapple industry on Lanai and elsewhere in HI is on the way out and will be succeeded by tourism and residential development, so DX'ers might consider buying land there, though they would probably prefer a location shielded from Honolulu, as John has wisely selected. After, Lanai, Molokai will be the only major island without an AM'er. In news from this area, Iraq is jamming about seven Iranian frequencies in Arabic, and someone is jamming Tel Aviv-730 and Syria-666, 783, and 828. An unID probably from Ethiopia is heard on 774 at dusk before Middle East Radio, Egypt, takes over 774 with its Western programming including rock and English lessons (Saturdays at 1905 UTC). Tabriz, Iran-1152 is heard in the minority language of Azerbaijani at 1810 and again 1918. Congrats to Eric Bueneman, whom I met this summer, on his "Bandscan" column. Christmas day will be a workday here, not mentioned in local EE newspapers.

Harry J. Hayes - 9 Henry St. - Wilkes-Barre, PA 18782 (pm 12-6; rec'd 12-9) EST. As of today 12-5 I noticed for the first time daytime stations staying on until 6 pm. I am assuming that today is actually the first day of this practice. I noticed WALK-1370 Patchogue, NY, a daytimer, still going strong at 1725 with c/w mx and much news about local roads and wx cx. I thought first this was on emergency or something. 1370 WLDM-1570 Springfield MA on top with all-nx format. 1731 WVAB-1550 VA. Beach, VA with oldest r/r. Other DX since I long since reported to you: 11-18: WSAY-1480 Salem VA at 1716 and at 1748 WAMY-1500 Amory, MS. 11-23 2335 CFOS-560 Owen Sound, ON. 11-25 KFI-640 Los Angeles CA up through WHLO at times with r/r mx at 0139. 11-26 WLTC-1370 NC with s/off at 1715. 1728 WTTTS-1370 Bloomington, In cut pwr. at 1729. 1739 WDEF-1370 TN good sig. 12-2 CPBK-630 Huntsville ON on top with "Customs of Christmas" feature. 12-4: 1215 WIMS-1420 IN, ID then cut pwr. at this time. 1730 WLFA-1590 Lafayette GA s/off at this time. Really not all that much netted on the band for a November, only 2 new ones for the month. This low tally was helped along by low enthusiasm to DX this month for some reason. Also SSS comes at dinnertime, and I'm more often than not, hungry. 73.

George B. Sherman - Box 2284 - Minneapolis, MN 55402 (pm 12-8; rec'd 12-10) More DX! On 11-12, 13 the Minnesota DX Club had our annual DXpedition west of Northfield, MN. Part of the time I used an NC-183 belonging to NRC member Mike Bates. Selectivity was measured at 1.3 kHz in widest crystal position. We used only 50' lw but set had been modified for 15 db gain over specs. Some of the best heard were NZ on 756 and 1035, Australia on 702, 747, and 774, and Fiji on 774 and 891, only S-5 or so compared to nearly S-9+20 from WLS! Fiji had what sounded like chanting with mx and sounded like a semi-local on 774 near their s/off about 5:05 am. Others were hrd 4-6 am or so.

11-18: I hrd KCCC-930 Carlsbad, NM very poor at s/off (in English) 6 pm after Spanish praying. WQNT-1140 Loudon, TN on DX Test 11-11 5 pm Su 11-20, ID's and country, poor due to WRVA, local WDGW-1130 and very local buzz. Good short skip on 11-24 brought 4 new ones: WFAN-940 Fort Atkinson, WI s/on with SSB at 6 am, S9+20 way o/QRN; WAKV-1470 W. Bend Twp. WI with "WBKV mx" o/ARM at 6:04 am; WMPP-1470 Chicago Hts, IL at 6:06 am with black format o/WMBD/WBKV; WIXN-1460 Dixon, IL with local ad at 6:11 am. On 11-25 I hrd WGLR-1280 Lancaster, WI at 7:02 am ID with local WWTC partly ailed; KCHD-1440 Cherokee, IA with sports and car ad w/local KGLD about 7 to 9 am but lost exact time; KCLD-1410 Leavenworth, KS on new fulltime sked ad 11:07 pm ID by w and country o/WIZ4. 11-26: heard KDKO-1510 Littleton, CO with black mx and faded up for ID at 11:06 pm o/KSTP splash and WLAC. WTCK-1300 Lexington KY 12:24 am o/WOOD on 11-29 with ID and temp: WIOT-1000 Horseheads, NY, presumed the one o/WCLF at 6:05 am with "Dax" sponsored by Easy Rider Transit System; WEEP-1080 Pittsburg, PA in mess but up for WPXI-TV ad at 6:10 am; WKAC-1080 Athens, AL at 6:22 am with ID, mx, wx, ad o/QRN, also 11-29. Now 2,054 heard. I've heard over 500 stns last 4 months and 45 of them were heard for 1st time. 73.

Brad Chappell - 49 West Ave. S. - Hamilton, ON L8N 2S2 (pm 12-6; rec'd 12-10) (319) 529-8751 On 11-30 I made a gruesome discovery. I knew that CFTR-600 will soon be going 50 kw and moving to Grimsby but I stumbled across their antenna site. It is only 3 miles from my parents' house. I do most of my DX'ing from there. WRKO-MA is suddenly my most wanted. To make things worse - CKEY-590 has been given the green light to make an identical move to Grimsby, and at 50 kw. Since they have to protect CKTB-610 they will have to be located as far west as Grimsby goes. I wonder if CFTR and CKEY will share ground systems, hi! Anyway, I took a picture of 6 completed towers and two just started with Toronto visible about 35 miles across the lake. // On the DX side of things: 10-14: WTZO-1000 WV at 6:40 pm. 10-15: CKVL-850 PQ at 6:20 pm with FP. WABJ-1490 OK at 9:12 pm with nx. 10-17: Surinam 725 at 4:25 am with DD talk and HH mx. 10-18: WBCB-1530 PA with ROK at 6:40 pm. 10-21: WJIK-1500 NC at 6:30 pm with s/off. 10-23 WB2YT-1140 PA at 4:45 pm with REL mx. 10-29: WJSC/P7-1520 at 8:12 am. Any ideas? 11-5: WGIC-1500 OH at 8:15 am with c/w. During a spectacular evening I got CKSO ON blasting local CKMW off the dial with ROK. Both orient to the north from here. Then I decided to try for CKLC-1380 ON. As I came up to 1380 I hit a hefty St. Pierre et Miquelon 1375. As if that didn't blow me away enough I got my first 4 TA's. Unfortunately, my loop/preamp wasn't available. Details are in IDXX (51-8). 11-13: WAMB-1170 TN with MYL at 5:22 pm, WSVW-1190 TN at 5:30 pm with s/off, WHYY-1190 AL at 5:40 pm with c/w, CM77-1200 at 9:45 pm with distorted mx, WDRG-1210 GA at 9 pm with c/w, WSGC-1480 GA at 9:32 pm with MYL, CMCA-590 at 10:42 pm, CM77-940 at 10:42 pm (R. Reloj). 11-14: CM??-740 at 1:57 am (R. Liberation) // I'm surprised that very few comments have been made on this time subject. I think that Musings could be sectioned off beginning with International, AST, EST --- PST ending with Paul's Muse. If everyone put their local ST at the top of their Muse, it would only require a slight bit more work for Paul. (If everyone had done that in the beginning, Brad, the time problem wouldn't have surfaced at all! -pls) 73's and happy holidays.

Patrick O'Connor - Plain Road - Hinsdale, NH 03451 (pm 12-7; rec'd 12-10) This is my first Musings, so I'll take a moment to introduce myself. I'm 27, and have been DX'ing for the last 9 years, off and on (more "off" than "on"). I've got 123 stn's logged, with 64 confirmed. (I'm a little different - I don't consider a station logged unless I get enough to try for a verbe.) Activity here has been good lately, and I've been giving my DX-302 and its 135' longwire a workout. The best frequency so far has been 1220. After semi-local WKBK-NH signed off, I've logged sign-off of WSCR-CT, WSME-ME which should have signed off earlier, but stayed on until an overtime NFL game ended, WGNV-NY was also heard, WRIB-RI got through, and WENC-NC slipped in. Strangely, WGAR-OH hasn't been heard yet. Strange ... Other catches are 1550-WMLB-CT, clear under WNTN-MA; 1430 WJNR-NJ came in quite strong. On 1590, stations logged include WSMH-NH, just an ID, but not enough to verify, and WAKR-OH, mixed all up with WENE-NY, with pop mx. Since WENE is c/w (I think), it was fairly easy to separate. On 12-4, I logged WFIP-CT, clear and coming in over WTOP-DX. That was on 1580. The best was early AM, 12-5. The first catch was WAIT-IL, 820. Apparently WBAP-TX was off. Several semi-locals were logged, and the final catch was WPCN-PA, with weather for the Poconos, and a nice, clear ID. Now, if a few of these would verify, I'd be very happy. I'll close here, and will try to report again later. 73's and the best of good DX to all, and may Santa propagate a few trans-continentals to you all. (And welcome to the fold, Patrick. Keep that DX-302 warm! -pls)

Sidney E. Marshall - 7224 Pam Dr. - Millington, TN 38053 (pm 12-12; rec'd 12-14) Only scattered time at the dials over the past 3 weeks but have added 5 new ones to the log book to bring my station total to 1,130 heard. "Newies" are: On 11-24 WMOP-900, FL was in at 4:26 pm to 4:30 pm with nx, ID, wx, and s/off announcement. On 11-26 at 5:09 pm KATT-1140, OK was in, over WRVA, with ID, report from Oklahoma Highway Patrol on death totals from accidents, and wx. On 11-29 at 5:00 pm KLTI-1560, MO surfaced with full s/off



announcement heard. There was no sign of WPAD or KOYX which is very unusual for this time of day! Next on 12-6 I finally heard WXYK-1360, TN which was in for a couple of minutes at 4:43 pm with market report, local spots, ID'ed and into mx before fading out. For a not-too-distant station this has been a tough one to log. Both their day and night patterns do not favor my area. On 12-11 KZZM-1360, LA was in and out several times, over KKOL, with mx and several ID's heard between 5:29 and 5:54 pm. This one was on late, or has the 6:00 pm s/off for "daytimers" been put into effect by the FCC? (Apparently, so, Sid -pls) I also noted a couple of other "daytimers" on past the usual December s/off on this date. All times show are CST. Will be having a rather heavy work schedule until the start of my 3-week vacation in January 1984 so I may be absent from these pages for the next few weeks. So till then, good DX'ing to all.

#### Radio Roundup

Pete Kemp - Bethel, CT (pm 12-12; rec'd 12-15)

Season's Greetings to all HRC'ers ... Beginning December 5, WJIT will simulcast WABC-TV-a 11:00 pm news in Spanish ... WTPP, in Boston, is dropping its coverage of Boston University's football games and 68 other sporting events due to money problems ... The ABC Rock Radio Network will broadcast, via satellite, the National Rock Poll on January 6 from 1:00-8:00 pm EST ... KABC radio will no longer carry the "Ken and Bob Saturday Special" due to Bob Barker's one-sided editorials on animal rights and vivisection ... The Mutual Broadcasting System and Dick Clark Productions have signed a five-year big-bucks contract to continue producing the weekly "Dick Clark National Music Survey" ... WJW's radio listeners of Bob Trumpy's Sports Talk show became ear-witnesses to the news, when a distraught woman caller threatened suicide. Trumpy talked with the caller for over two hours as police/telephone employees worked to trace the call. The woman, identified as "Sugar" was found and taken to the hospital ... Bobby Sharpe is the new overnight DJ at WORL in Orlando ... Mutual Broadcasting has sold WCFL, in Chicago, to Statewide Broadcasting Company, a Florida-based group ... In Boston, WHUE will become that city's first full-time AM-stereo station. WBZ has been experimenting with various systems over the past 18 months and is expected to go full-time AM-stereo on January 1 ... Radio listeners in Toronto seem to be enjoying the format switch of CJCL to oldies in an effort to upgrade its ratings ... Also, up north, the Canadian Broadcasting Corporation will begin 24-hour operation in January ... Dan Dierdorf is expected to announce his retirement from football and the St. Louis Cardinals and will join the KMOX sports team (I didn't think it would be to do the weather -pk) ... The FCC has announced that it will stop policing stations' call letters, thus insuring good taste, and so that they are not similar to other stations in their broadcast market. The court system will handle any problems of that nature and the FCC will just keep the records ... Uncle Ted, in Atlanta, has been busy upgrading WCNN. He plans to request an increase in power, from 25,000 to 50,000 watts, to insure a bigger audience. He was not at all happy about having to recruit fringe area AM'ers to carry the Braves games. It is difficult to compete with the mighty signal of WSB ... Dan Ingram, for 21 years the ever-popular DJ at WABC during its big years, will be returning to the airwaves in April, when he hosts the "Top 40 Satellite Survey", a weekly syndicated venture by Radioradio, the CBS Young Adult Network ... The word in the Big Apple is that Big Dan Ingram is also looking for a morning DJ slot ... Happy New Year and good DX'ing to all.

Peter V. Taylor - 2614 Jackson St. - San Francisco, CA 94115 (pm 12-13; rec'd 12-15) The long-awaited KSFO-KYA-KOIT "happening" took place at 03:00 12-13. The result? King Broadcasting now owns KSFO, and features Gene Nelson, Russ "The Moose" Syracuse, Sam Van Zandt, Carter Smith, and Al "Jazzbeaux" Collins between 6 am-2 am. The station receptionist couldn't even tell me today, 12-13, who's doing 2-6 am! They will be playing some of the MOR-type oldies, but obviously not as many as the former Gene Autry/GWB KSFO. KOIT(AM)1260 is Bonnaville EZL and will complement their 96.5 FM and put them in a stronger position against dominant KABL AM/FM. KFAM-780 is fine at night, but note that it is ID'ing North Salt Lake City, not Bountiful. KYXE-1020 Selah-Yakima logged 12-12 08:25-01:10 with caw, over (and mostly) under KTNQ-SS. Bob Reece at the stations says they are 5 kw/500w U-5, directional days to protect the forthcoming co-channel in Moses Lake, which for years tried for fulltime on 1260, but finally got it on 1020. WWL still dominates KORD-870 here; guess I better dig it out before KIEV comes on at nights! Happy (safe) New Year, everyone.

Robert Kramer - 6416 N. Richmond - Chicago, IL 60645 (pm 12-13; rec'd 12-16)

Hi out there. It's been a long time since I Mused so I'm about due. A great sunset opening hit on Dec. 10. It started with KWYR-1260 Winner, SD totally dominating the frequency at 3:15 CST. This is about an hour and 45 minutes before their local sunset. At 3:30 KLTC Dickinson, ND came blasting through on 1460. This is the earliest I have ever had an MST station in. KRBJ-1360, semi-regulars here this year, was in far stronger than usual at 5 pm. Next, about the same time was KHOL-1410 Beulah, ND coming through semi-local WRMN. 5:20 produced KWYO Sheridan, WY way u/WRMN. Things stayed quiet until 5:53 when the Big Shocker of the day, KNJJ-1080 Portland, OR popped in, 45

minutes before pattern change. They were blasting in by 6 pm. I got a good tape of their ID. This was my first PST station at sunset. At 6:01, KCGY-1060 Cladwell, ID was ID'ed coming out of religion. Unfortunately, all of the previously mentioned stations were unneeded. The only new stn was at 6:29 when KOBH-580 Hot Springs, SD was ID'ed, dominating the frequency on post-sunset authority. This one was operating with 500 watts or less. Also in this opening, but not ID'ed, KERR-750 Polson, MT and probably KING-1090 Seattle (rock mx, no ID's gone by 6:15 pattern change). In all I'd rate this the best sunset opening I ever noted. As it turned out it was another instance of what we in Chicago call Johnstown Effect. This effect is DX to a northern latitude, or other rare area, just prior to the onset of aurora. It was named after the first time we noted this type of reception, WJZR (now WMYL)-930 Johnstown, NY back in 1974. It appears that most strange openings to the NW around here indicate an upcoming aurora. Both NW sunset openings this year preceded auroras. 73 ... RK

Greg Monti - 1301 S. Cleveland - Arlington, VA 22204 (no pm; rec'd 12-16)

A somewhat belated response to some of the questions in Peter Weeks' Muse appearing in the 10-24 DXN: I think the policies in Europe regarding high-powered AM stations are twofold: (1) The high-powered provides a strong signal over a large area. Much of the problems of AM in the U. S. stem from a poor received signal to noise ratio due to station RF signal levels running out of steam amid heavy electrical noise only a few miles from their transmitters; and (2) high power provides reasonably even coverage of a country (and possibly its neighbors) without requiring the installation of networks of lower power transmitters. I doubt that most of these transmitters are directional as they operate on the European equivalent of clear channels. I guess a side benefit of high power is that it allows lower average percentage modulation of the transmitter resulting in less adjacent channel splatter. The use of low-power networks all operating on the same frequencies can be a tricky engineering problem. Most of these stations are probably nondirectional but either use precision frequency offsets (operating, say 20 Hz apart in adjacent service areas so that any "beat note" or heterodyne between transmitters is too "fast" and too "slow" to be heard as an audio tone). Alternatively, the transmitters which are all carrying the same program can be operated "synchronously," on exactly the same frequency and staying in phase, wavefront for wavefront. The disadvantage to this is that natural "peaks" and "nulls" in the composite coverage pattern will develop, making for some "holes" in the coverage area of the whole network. Perhaps a European member or a TA DXpert can fill us in further. 73's.

G. Harley DeLeurere - P. O. Box 10 - Hendricks, WV 26271 (no pm; rec'd 12-16)

Winter is here, and DX'ing has been relatively good. Radio Paradise-825 was heard for the first time the other evening. If it QSL's, Saint Kitts will be country #71 for me. What is KLSM's correct address? I had my letter to it returned. Merry Christmas, and Happy New Year.

Tom Connatser - Route 9, Box 78 - Sevierville, TN 37862 (pm 12-13; rec'd 12-16)

Hello again, and I hope you all had a Merry Christmas by the time this hits print. If I had the kind of luck I had a couple of weeks ago, this may not get to Paul before 1986 (and I'll try not to lose Muses in the Black Hole [aka John's kitchen table] -pls) Finally got a solid copy on the WCHN f/c, thanks to a tape of the Nov. check courtesy of Dave Schmidt. After hearing the tape, I'm positive I had him the last couple of months, but still no ID's have been heard so it doesn't count. Will be losing sleep the weekend of the 18th and 19th looking for tests - WAGS on the 18th and KBYE and WCHN on the 19th. For those of you looking for another shot at WLNT-1140 Loudon, TN, look for them to run another test on Sunday morning sometime early next year. Speaking of tests, am I a one-man CPC? The only other test I've seen this year is the KBYE test arranged by Al Resnick. DX should improve around here some as the old TV, which was a notorious TVI generator, has been retired; its replacement isn't nearly as obnoxious in the TVI dept. Looks like the auto manufacturers are backing the Motorola C-Quam stereo system; Chrysler has just announced it will be going with that system. (Not surprising; Chrysler has been using Motorola-manufactured rx's for many years -pls). On the transmitting end, add WAGO-1140 Almore AL to the list of Motorola C-Quam stations; per the reply to my request for a DX test, the station is currently broadcasting in Motorola stereo. In the DX department this week WKN-1050 was heard on 12-1 at 5:53 pm EST with mention of space shuttle and country mx. This is the best reception I've ever had on this guy, although CHUM was still very much in evidence. At 5:57 that night I heard CHML-900 ON with a Christmas promo and pop mx. The best catch of the evening came at 6 pm when I bagged WOSU-820 in the clear with promo for NPR into ABC mx. WAIT was nowhere to be heard and WBP was a very distant second this night. Looks like the situation with WDGR-1210 GA has finally been settled. One suggestion for the FCC: before they start granting CP's for the broken-down clears, they should study the country and determine where these new stations are really needed. It seems to me like many of the applications for these channels are for very small communities such as the one for White Pine, TN



which is listed as wanting to move from 833 to 678 kHz (probably due to WMBR). Guess I'd better get out of here and catch up on some sleep; it's going to be a long weekend. 73's and Happy New Year. (Nicholas Johnson, where are you when we need your good sense on the FCC? I still feel that another GY channel or two should have been created to serve the smaller communities, rather than to usurp the coverage afforded by the clears. Are we headed toward the pre-1927 radio chaos? -pls)

\*Florida Joins His Double-century Club\*

Ernest Cooper - 5 Anthony Street - Provincetown, MA 02657 (pm 12-13; rec'd 12-16) (617) 487-9337 EST. Three nice v/l's have arrived since the last Muse: Two from Florida give me my third 200-verse state to go with NY and PA in WSTU-1450 and WMBR-1490. Also a fine v/l from WLNT-1140 Test, for which thanks, Tom Connatserl DX: Wed 11-23: UNID TT's on 1230 and 1310 between 1 and 1:30 am. Thur. 11-24: Unn WABE-790 o/WBAN today; odd, seeing as how WABE protects WBAN, and I'm in the same direction. This is 1 am, and unid old friend CBK-990 was up top later, at 2. 11-25: R. Antilles-1450 was in again this twilight at 5:27 pm; watch for this one on AU eves. MM 11-28: A third try for a WPTM-1590 verie on his r/c - mx 12:45-1:09 am s/off. I called them and the engineer gave me his name and promised to verify. WGBS-710 was in nicely today with WOR off at 2:56 am. Unn KOA held 850 at 3:07. Tues. 11-29: France-864 was noted this morn at 1:04 and on 1206 at 1:07, with WQIK-1320 loud at 2:21 am. Wed. 11-30: TT'er on 1550 1:11-1:15, then to 1480 where a guy said, "You can get AYDS in your drugstore!" (Depends on the druggist, I guess!) Thur. 12-1: A no-speak TT'er on 960 at 1:31-1:42 am, and R. Clarin-860 in back to AN'ing; solid signal here at 2 am ID. Fri. 12-2: Rare but un WGLI-1290 was noted on top of WWSA and AN'ing at 2:15, P DJ, and MOR oldies. WICE-1290 seems to be AN only on Sat. and Sun. AM's now, in Portuguese. Sat. 12-3: Somebody on 1460 had North Carolina-Fordham BKB at 1:23 tune-in till around 2 am, N. C. announcer saying they'd be on the next night again if the Tarheels win, and they did. SM 12-4: Report sent to WZON-620, ex-WACZ, ex-WLBS. They have a fondness for the letter Z up there! I overslept MM 12-5; how about that? Tue. 12-6: Loud TT graced 1250; was it perhaps WMTR readying their night pattern? That SSS, Morocco-1844 again very strong at 4:57-5:26 pm. Fri. 12-9: "Popular" on 950 w/WBX with no sign of WPEN 1:43-2:20; I believe this is HIG, Santo Domingo; right, Cesar? Sat. 12-10: An SS on 1320 mentioning Lara often 1:42-2:39, but no ID was caught. MM 12-12: A blah morning; nothing exciting except an UNID TT w/WBSM-1420 which quit at 1:08. Tue. 12-13: Jeff Cohen called to alert me to a WBBE-1570 test, but too much CKLM here; they might have ID'ed at 1:28 - somebody did, way w/CKLM. A very loud SS was AN'ing on 900; noted at 2:35; didn't sound Cuban. Also constant TT all AM on 1140 again; I suspect 'tis CBI. C U N 7.

Jeff Lockwood - 2883 N. Sligh Ave. #612 - Tampa, FL 33614 (pm 12-13; rec'd 12-16)

First time in over a year I've been in these pages, so as the new year rolls in I'll sum up 1983. DX-wise, it was a bust, primarily due to preoccupation with computers, studies, work, and home video (my latest craze), and also the result of the shotgun loop falling off my RF-2600 one too many times. I knew that double-sided adhesive tape wouldn't hold forever, hi! In June I hit the road in the Pacific Northwest (San Francisco to Portland for a week of sightseeing and a personal visit which took me to the coastal town of Florence, OR. I almost did a bandscan there during the daytime, but the relatively poor sensitivity of the 2600 and the lack of water paths for groundwave failed to produce such hoped-for as KCBS and KGO (although the latter was audible nearly to Medford on the Delco car radio). Strongest signal was KPNW-1120 but even that was only moderate due to Coast Range. The nearby sand dunes look like a perfect spot for a beverage setup, but a lousy place for radio gear, especially in high winds. In August I monitored KTRH-740 during Hurricane Alicia. As usual, they were mixing with KRMG that night, so no indication they were using day pattern. On the local scene there are three teams with NO local radio coverage - the Rowdies (at least indoor - though WFLP will still cover them outdoors), the Sarasota Stingers of the Continental BKB Assn, and the just-revived Univ. of Tampa BKB. The Spartans are on the court for the first time since 1971. Their FB games were carried on WFLA (with the late Jim Gallogly doing play-by-play) until the FB program folded in '74 due to \$\$\$ problems. WFLP is fast becoming THE sports station here despite their signal problems in Tampa - they will even be carrying the Super Bowl here. Bill Townsend called here last month during his travels; no visit in person due to a bus foulup. Oh, well. Hope everyone has a Happy New Year.

Guy Kudlemyer - 1314 City View #1 - Eugene OR 97402 (pm 12-14; rec'd 12-16)

What's News in DX from this neck of the woods: PM DX'ers, take note: This area's newest is finally on: KDUK-FM. That's right, K-duck (quack!). They seem to be a mixture of soft rock and contemp. country crossover and other light tunes. I believe they're 100 kw and have their transmitters located near Coburg, OR. New stuff heard from here (and other pertinent data): KBUH s/off caught on 10-27 with c/w mx and ments of 500 watts. KHYV heard for first time since their ex-KBEE call change on 10-28 at 6:34 pm with "If Anyone Falls" (my favorite song!). CKOO ID'ed on 10-28 at 6:53 pm with a remote from

some sort of Home and Garden show, or something. KART is a super post here, knockig out any chance of hearing even semi-local KNND. They also seem to be on some sort of c/w mx satellite net with ex-WFL'er Charlie Douglas. On 11-19 newie KBRE ID'ed at 4:07 pm with "winter storm watch" wx and ment. of 39 degrees. On 11-25 at 4:09 pm, I heard elevator mx on 700, then, "In a class by itself, the easy music on AM 700." "Good afternoon, KFAM news ..." was then heard at 4:15 pm. Also on 11-25, I heard "KBKR AM and FM in Baker, OR" at 5:58 pm - I've been stalking this one for eysars, and, finally with persistence, I bagged it. On 12-2, I logged newie KAGT at 5:14 pm with ments. of Amacortes and a Seattle Seahawks comm. Then at 9:18 pm, I logged KREW on its new freq., doing battle with KCLG and KQYN, but having a rough time of it. Beacon "INN" has been heard recently also. Being an amateur meteorologist as well as a DX'er, I've noticed that when the barometer is lower than 29.80 in the afternoon and a storm is just off the coast and approaching, cx to the east are often excellent at sunset. Example: On 11-10, the barometer was 29.78 and falling at sunset and WCCO was in like a local at about 10 min. before LSS. 20 min. after LSS, WREN was doing battle with the 2 WA pests and killing any chance for KLLK. It faded shortly thereafter, but I've never had WREN in that early before. Now I watch the barometer very carefully every day and jump on the rx when it's falling in the afternoon. Hope everyone had happy holidays!

Stephen H. Ponder - 4105 Glen Street - Bossier City, LA 71112 (pm 12-12; rec'd 12-16)

Hello, out there in Radioland! It's been quite some time since I last Mused, and with all the excitement that I've seen in the pages of the bulletin, I figured I'd better hurry up and put my two cents' worth of before it's too late! The DX here in the swampy South has been good (at least the times that I've been at the dials it's been good). The DX fairy has allowed me some pretty good catches, some of them being KITA-1440, Little Rock, AR, and WCCO-1590, Jackson, MS. I know especially about these two because the local mail turtle has returned my letters to me because their addresses have changed since the last DX Log. Other catches include WAMB-1170, Donelson, TN; WLOS-1180, Jacksonville, IL, and KHAD-1190, DeSoto, MO. I have not received any veries since last Muse, but that doesn't mean that I have lost hope entirely! Anyway, I've really been trying to put more time into the dials, but schoolwork (both teaching and graduate computer classes) really ties up my time. The Christmas cantata at my church is getting closer, and that will take up the rest of my spare time, so, hi, looks like I'll not be spending as much time DX'ing as I'd like to. Was I rambling? I guess that means it's time to close for now. Good DX out there, and try to stay warm this winter!

Andrew Reninger - 2 Grove Street - Glen Head, NY 11545 (pm 12-12; rec'd 12-16)

This is my first Muse. Been DX'ing for about a year and a half. I vote we make up a new time zone, such as Nationalradioclub Local Time) which would be Moscow Standard Time + 1/2 hour, except alternate Thursdays, when it would be Moscow -1/2. Local superpet WNBC-660 is giving away AM stereo receivers, but I don't know for what system(s). In the meantime, not being a technical wizard or genius, I haven't got the slightest idea of how to hook up a loop antenna to my Panasonic RF-2200. Any suggestions welcome, thank. I'm also into SW and PM (horrors, aghast!). I would like to suggest that the column editors devote space once in a while to tell us how to use their columns. For instance, is a s/c something we can count on all the time, or a one-time thing? What does "s" mean in DDXD? Some of us new guys have no idea of what's going on. Thanks, guys. Everyone in my area is giving away Cabbage Patch Kids (blech!). Looks like a good season well under way. Have a good one. 73's and Good DX! [And welcome to you, too, Andrew; your humor is appreciated. I tend to agree with you in your comments on the overuse of symbols; I've tried to eliminate a lot of them in Musings to make the column more readable. However, space is at more of a premium in some of the columns. Check your new member booklet [when you receive it] for the more esoteric items -pls]

\*November 13 Was A Great Sunset\*

Bob Smolarek - RD #1, Box 63 - Whitehouse Station, NJ 08889 (pm 12-13; rec'd 12-16)

After reading Bruce Conti's Muse on Dec. 5, and seeing Rich Harrison's loggings from Ocean Grove, NJ in DDXD, I realized Nov. 13 was a great DX day. So I opened my 1983 NRC calendar to see if I heard anything that day. I write down what stations I hear in the calendar. Voila, I was down in Atlantic City, NJ that day. While my parents were gambling, I went to the top deck of the new Ocean One shopping mall that juts out into the Atlantic. I had my brand-new \$20 TRF with me and I heard a lot. I thought, boy, what a lot of stations I can hear by the sea. Here's what I ID'ed at AC. WPTM-680, WYOK-690, WGBS-710 under WOR, WYNA-730 Gretna, VA, WCPS-760, WHNC-890, WBBB-920 blasting in; I never heard this guy before; WLEM-1250, plus many others I couldn't get call signs on. What a day to be away from home. Thanks to Paul Mount, I have joined Radiophiles, another radio club. They are very good. They give format changes AM and PM, disk jockey moves, and have a Musings section like NRC. Happy Holidays too, all.



Neil G. Zank - 623 Lyncrest Dr. - Lincoln, NE 68516 (pm 12-14; rec'd 12-17)

I do believe we have ourselves a DX season this time around. d At least my DX results have been apoppin'. This is it: 10-31 WXXVI-1600 Montgomery, AL 1:35 am CST with mellow soul mx; 11-7 WFPN-1430 West Plains, MO 1:20 am with c&w mx, nx promor; KADR-1400 Eikador, IA with c&w mx, partial ID (must have been ET'ing); 11-4: KMTL-760 Sherwood, AR 4:45 pm with gospel mx, s/o/EE; 11-15: KKDA-730 Grand Prairie, TX with upbeat soul mx, AP net nx; 11-17 KRIO-910 McAllen TX with rock mx, 12:45 am, win turkey contest; 11-21: WLNT-1140 12:00 am with ID, c&w mx for a few minutes thru WRVA; KXOI-810 Crane, TX 6:55 pm with rel. mx, wx for Permian Basin; 11-23 CPQK-1370 Westlock, AB 12:54 am with c&w mx, OK country slogans; 11-24: CHOK-1070 Sarnia, ON 1:45 with c&w mx, good enough for a report this time. 11-27: KBOI-670 Boise, ID with NRC sports, rock oldies?? mixing with WMAQ; 1600-KXVI-1600 McKinney-Plano, TX 1:25 am with Christian rock mx, request line #: 11-27: KIKK-650 Pasadena, TX 5:00 pm thru WSM with ID, ads; 11-28 WKXC-1470 New Albany, MS 12:50 am with c&w mx, wx for Union County; 12-11 CKAR-1350 Oshawa, ON 1:15 am with AD. Contemp. mx, ads and 1350-CKAR ID's; 12-12: WCHU-1500 Soddy-Daisy, TN 12:40 am with MYL mx, ID for WCHU-FM "Choo-choo 102". And that is the basic new DX for me lately. Otherness noted in my book follows - not new but rare or changes: 11-1 KKKL-1440 Grand Forks, ND c&w mx at 2:10 am; 11-7 WLSQ-950 Montgomery, AL 6:00 pm with rock mx; 11-14 KUR-730 Billings, MT at 5:15 pm with tire ad, temp. check, MST time check, and ID; 12-5: WROA-1390 Gulfport, MS 1:38 am with ID and MOR mx; 12-12: WKKE-1180 Pearl, MS 1:48 am now with Music Country Network rather than MYL of last season. So you can see that my speaker has been rattling somewhat often. Veries in from WLSQ, KRDE, KWPM, KRIO, CHOK, WKXC, KXOI, WLNT. I have used my local CST in my Muse, but my attitude is that ELT should be used in Musings and DDXD; ELT is a good standard of reference and a large majority of NRC'ers are used to it.

Harry Hayes - 9 Henry St. - Wilkes-Barre, PA 18782 (pm 12-14; rec'd 12-17)

The band finally broke open at sunset again today, 12-13, after several days of being closed due to aurora cx. I am anxious to see what these new FCC rules of 6 pm sign off time for daytimers will do for or to DX. Will it hinder it or provide some interesting opportunities? The band has just not been very good to the west so far since 12-5. Most of my DX'ing has been of the informal kind; that is, DX'ing while getting supper ready or doing other such things. In this kind of instance I hope nothing really interesting shows up since I don't have my tape recorder by the radio when DX'ing in such a fashion. Sort of like playing Russian Roulette, wouldn't you say? Hi. Other things of a DX nature is that a big E skip opening showed up on TV and FM on 12-3 and lasted for several hours. This short of has my ears pricked up for this band for December at least and adds to the reason what I don't have much DX to speak of this reporting period. Here goes: 12-4: 17:15 WJMS-1420 IN somewhat rare here with usual WRK in the way. 17:30 WLFA-1590 GA hr'd with s/off at this time. 12-5: New FCC hours noted in effect for I would guess those daytimers with the resources and desires to take advantages of them. Those stations noted so far going on until 6 pm are WALK-1370 NY, WLDM-1570 MA, WVAB-1550 VA and locally WNAK-730 Nanticoke, also add to this WAJE-1500 PA. Only 2 new stations logged for the month of November which has to be an all-time low. I won't blame cx for this but myself; I just haven't been able to get myself to sit down in front of the radio much. Also bringing beer and other goodies to the radio site doesn't help much either in that I have a tendency to concentrate more on what I'm eating than what I'm hearing. A real no-no is eating potato chips at the receiver; this not only gums up the knobs of the receiver but the sound in your head is like DX'ing amid a severe thunderstorm. Happy Holidays to you, Paul (thanks! -pls) and belated wishes to my reader friends.

Karl Forth - 2714 N. LeClaire - Chicago, IL 60639 (pm 12-14; rec'd 12-17)

The first post-sunset operation noted here belong to WKKD-1500, which has been using 250 watts until 6 pm CST since December 5. (They just changed call letters, too, from WFPN.) Sunset conditions have been too erratic to check all the local and semi-local daytimers, but I've noticed WLIP-1050 and WBEE-1570 on the air until 6 pm. DX highlights for November include (CST) CHEC-1090 with pop mx and "Chec" ID's sister station CKTA-1570 had been heard a week earlier, at 1:20 am, on 11-7. New KVVA-860 with Spanish talk and PSA's, Mexican mx, first heard at 1:25 am on 11-6, noted many times since. WHEZ-1420, ex-Kentucky, heard with ID and ABC nx at 5:00 am on 11-2, and WZZZ-1310 heard with s/on at 4:59 am on 11-15. The evening of 11-15 was dominated by auroral cx, with many Latins appearing on regional frequencies. There have been several similar openings since, but not with as good reception as was noted on 11-15. The evening of 11-15 was dominated by auroral cx, with many Latins appearing on regional frequencies. There have been several similar openings since, but not with as good reception as was noted on 11-15. The WLNT-1140 DX test was heard weakly at 11:04 pm on 11-20, better later on through WRVA. Verifications have been received from KARV-610, KMTL-760, KSDN-930, WDGR-1210, WXLK-1490, and CKTA-1570. All the best to everyone in 1984.

Dave Schmidt - 42 Chelwynne Road - Castle Hills, New Castle, DE 19720 (pm 12-14; rec'd 12-17) Some strange conditions have been noted lately; they seem to vary from the finest possible to the worst in just a few hours' time! Heard/reported for this report: 11-21 WLNT-1140 12:21-12:31 am on their DX test, signal mostly w/WRVA but did note partial ID's, tone, and mx. 12-4: KPNW-1200 5:26-5:45 pm with hymns, ID/time check into religious news program, fade-free signal till pattern change. WNAX-570 5:50-6 pm with c&w mx, ID's between selections, amazing signal when I first tuned in but faded down by legal ID time (natch), never heard in the past 20+ years so a welcome catch, one of my better ones at sunset! CBW-990 was topping WZZD after 6 pm with CBC nx, very rare at that hour here (usually an early AM visitor!). By MM 12-5, auroral conditions set in and all the fine western signals were gone. 12-12: WCHU-1550 with standards, PSA's and ID's for "Choo-choo 102", 1:43-2:03 am, evidently an ET with FM audio, legal ID on hour. WHUE-1150 2:15-2:30 am with EZL Christmas songs, long ID on new AM stereo signal, good with WDEL off, last heard as WCOF back in the 60's! Verie total now stands at 1115 adding: WLNT-1140 DX v/E, WCRT-1260 nice v/l (said was an ET of new studio equipment, first report by PO), and a small v/l, program schedule and bumper sticker from KPNW-1200. The KPNW reply is the direct result of a technique Jerry Star introduced a few years back known as "The Verie Magnet", which is a special technique known by broadcasters alone! A few stations have been noted using post sunset power authority in the last few weeks, like WALK-1370 (thanks for the tip, Bill!), WLIM-1500, and WJIC-1510. WVAB-1550 was noted one night on what sounded to be full power but was not heard a week later at the same time, even announcing their extended hours but it didn't seem to last long! Once this PSSA gets into full operation, the low power levels proposed should be a real game for the DX'er! Until next time, 73's.

Paul Swearingen - 7316 Ensign Ave. - Sun Valley, CA 91352

The mild time controversy I've created has no perfect solution, of course; only a compromise is possible as NRC'ers live in time zones all across the globe. To choose a time zone simply because many NRC members live in it and have used it to report loggings in the past simply does not stand up as the best solution. Converting times twice (once by the Muser, again by the DX'er) is risky. And why bother with accuracy at all? Well, let's take Dave Schmidt's logging of WNAX-570 12-4 from 5:50-6 pm (presumably EST). SSS and SRS DX'ing times are very critical; by knowing what time Dave heard WNAX in Delaware, DX'ers from Iowa to Delaware may plan their DX'ing during a half-hour "window" time. Whether the logging is reported in EST, CST, or Zulu is unimportant; what is important is knowing the exact time so as to be able to convert it to the DX'ers local time. Converting DX times logged around midnight can be a real joke. And there's the problem; recently, Musers have used both ELT and local time, Zulu time and military time, and even 24-hour time with standard ":", causing confusion. I have no intention of attempting to convert your time to a standard when you don't state in which time you have reported your DX. And so, unless someone can convince me to change my mind, I request that, henceforth, domestic DX'ers use their local time and state what it is at the head of the Muse. Foreign DX'ers, use your local time also, but add or substitute UTC to clarify, if you wish. Therefore, the responsibility for converting times falls on the person who will be using the information: the DX'er. Now, let's get on with the DX'ing! 73.

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