FEDERAL COMMUNICATIONS COMMISSION

WASHINGTON 25, D. C. Sept. 8, 1955

8843

Direccion General de Telecomunicaciones Secretaria de Comunicaciones y Obras Publicas Mexico, D. F.

Gentlemen:

In accordance with the Agreement entered into by the Governments of the United States of America and the United States of Mexico for the assignment of television channels, notice is herewith given of the Biling of an application as follows:

100	grant
1.	Construct a new television broadcast station () Modify an existing television broadcast station (2) Other
2.	Applicant Big Soring TV. Inc. City State Series
3.	File No. and/or call letters
4.	Proposed transmitter location:
	Latitude 32° 15' 16 " N. Longitude 101° 26' bu " W.
5.	Channel Number
V1	deo Carrier Shanneza Frequency 67.24 - Mc.
7.	Effective radiated power (visual)kw.
3.	Antenna: Overall height above ground Overall height above mean sea level Antenna height above average terrain (2-10 miles) Horizontal directivity pattern: (1) Ommidirectional (2) (2) Other
	Venu tmil v voine

Mary Jane Porris
Secretary

AUGUST 8, 1955

BIG SPRING TRIEVISION, INC. RADIO STATION KEST-TV BIG SPRING, TEXAS

COMMISSION CRANTED KEST-TV BAPCT-3267 KETECTIVE RADIATED

POWER VISUAL 12.9 KILOMATTS AURAL 6.92 KILOMATTS ANTHONA

HEIGHT AROVE AVERAGE TERRAIN 380 FEET, CRITICA HEIGHT

CONDITION REQUIRING SURVEY OF TOWER LOCATION AND HEIGHT NOT

TO ELCHED 2960 FEET ABOVE MEAN SEA LEVEL, REFIRING FEBRUARY 5, 1956

MARY JANE MORRIS, SECRETARY FEDERAL COMMUNICATIONS COMMISSION

Appr. Broadcast Bureau 8-8-55 MVD:ob/lic.B 12 pm

cc: Files
Miss Iehl
Mr. Nelson
E L Burke, Atty.
Engr. Dist. # 10

DAY LETTER COLLECT



11062000

F-C-C. FORM NO. 351-_ February 1954

UNITED STATES OF AMERICA FEDERAL COMMUNICATIONS COMMISSION

File No. <u>BILCT-3267</u> Call Letters T-TY

Modified as of August 8, 1955 TELEVISION BROADCAST STATION CONSTRUCTION PERMIT

Subject to the provisions of the Communications Act of 1934, subsequent Acts, and Treaties, and Commission Rules made thereunder, and further subject to conditions set forth in this permit, 1/authority is hereby granted to

		G SPRING TELEVIS				
	struct a televisi					
1.	Station location:	: State	TRA	cit	J Big Spring	
2.	Transmitter loca	tion: State_16	X3.5	County		
	City or Town	Big Spring				
	Street and number	r_ 600 Kentucky !	Jay			
	North Latitude:	pegrees 32	Minutes_	15	Seconds16_	
	West Longitude:	Degrees 101	Minutes_	26	Seconds	
3.	Main studio loca					
		Big Spring				
	Street and numbe	r 600 Kentucky i	/by			
4.		<u> Yisual</u>			<u>Aural</u>	
	Make and type	CE TT-10A		GE_T1	-10A	
	Rated power 6.9	9_dbk(5 k	v) peak.	4.31 dh	k (2.7 kw	١.
5.	Antenna:	#			* \	, -
		GE TY-60-C, 3 see	ction Batwing			
		, -				
	Horisontal field	pattern: Omnidi	irectional			
		•				
	Antenna supporti	ng structure_45	7 foot tower		•	
	Overall height a	bove ground 49	?feet.			
	Obstruction mark	ing specification	is in accordance	e with_pe	racrapha l. 3.	_4-
			is in accordance	e with_pa	regraphs_1,_3,	-40-
		PCC Form 715 at		e with_pe	regraphs_1,_3,	-49-
8.		FCC Form 715 att		e with_p	regraphs_1,_3,	-69-
8.	13, 21 and 22 of Operating assign	rcc Form 715 att	tached.			
6.	13, 21 and 22 of Operating assign	ment: 72 y	tached. degacycles.	(Channel N	0	
8.	Operating assign frequency 66	ment: 72 y	tached. degacycles.	(Channel N	0	
8.	Operating assign frequency 66	ment: 72 y	tached. degacycles. isual 224 Mc.	(Channel N	04 Aural 71.74)
6.	Operating assign frequency	ment: 72 y 6	tached. tegscycles. tsual 7.24 tbk((Channel N	o4) MC _kw)
8.	Operating assign frequency	ment: 72 y 67 ed power 11.1 c	tached. tegscycles. tsual 7.24	Channel N	o4) M [©] _kw)
8.	Operating assign frequency 66 Carrier frequence Effective radiat Transmitter outp Antenna height a Hours of operati	ment: 72 y ed power 11.1 ut power 7 bove average term on - Unlimited.	tached. (egscycles. isual 7.24 Mc. ibk(12.9 kw) ibk(5 kw) rain 380	Channel N peak. peak. feet.	o4 Aural 71.74 8.4 _dbk(_6.22 4.3 _dbk(_2.7) Mc _kw) _kw)
7.	Operating assign frequency 66 Carrier frequence Effective radiat Transmitter outp Antenna height a Hours of operati	ment: 72 y ed power 11.1 ut power 7 bove average term on - Unlimited.	tached. (egscycles. isual 7.24 Mc. ibk(12.9 kw) ibk(5 kw) rain 380	Channel N peak. peak. feet.	o4 Aural 71.74 8.4 _dbk(_6.22 4.3 _dbk(_2.7) Mc _kw) _kw)
	Operating assign frequency66_ Carrier frequence Effective radiat Transmitter outp Antenna height a Hours of operating the of required	ment: 72 y ed power 11.1 ut power 7 bove average term	tached. fegscycles. isual 7.24 Mc. ibk(12.9 kw) ibk(5 kw) rain 380 construction	peak. peak. feet.	o) Mc _kw) _kw)
7.	Operating assign frequency66_ Carrier frequence Effective radiat Transmitter outp Antenna height a Hours of operaticate of required Date of required	rent: y ed power 11.1 bove average term on - unlimited. commencement of	tached. degacycles. isual 7.24 Mc. ibk(12.9 kw) ibk(5 kw) construction onstruction	peak. peak. feet. Septem	o4) Mc _kw) _kw)
7.	Operating assign frequency	y 69 ed power 11.1 cout power 7 completion of completion o	tached. degacycles. isual 7.24 Mc. ibk(12.9 kw) ibk(5 kw) construction onstruction	peak. peak. feet. Septem	o4) Mc _kw) _kw)
7. 8. 9.	Operating assign frequency	ment: y ed power 11.1 ut power 7 bove average term on - unlimited. commencement of completion of co ogram tests shall of the Commission l be automatical:	degacycles. degacycles. degac	peak. peak. feet. Septer Only purs	o)Mckw)kw)
7. 8. 9.	Operating assign frequency	ment: y ed power 11.1 ut power 7 bove average term on - unlimited. commencement of completion of co ogram tests shall of the Commission l be automatical; thin the time sp	tached. degacycles. isual 7.24 Mc. ibk(peak. peak. feet. Septement only pursue the state	o	Mckw)kw)ns
7. 8. 9.	Operating assign frequency	ment: y ed power 11.1 ut power on - unlimited. commencement of completion of co ogram tests shall of the Commission l be automatical; ithin the time sp	tached. tegacycles. isual 7.24 Mc. ibk(Mc. ibk(5kw) rainMo construction_ onstruction_ be conducted Rules. ly forfeited in lection of the	peak. peak. peak. feet. Septement only purse the state hin such station is	o	Mckw) _kw) _ns dy cau
7. 8. 9.	Operating assign frequency	ment: y ed power 11.1 ut power 7 bove average term on - unlimited. commencement of completion of co ogram tests shall of the Commission l be automatical; thin the time sp	tached. tegacycles. isual 7.24 Mc. ibk(Mc. ibk(5kw) rainMo construction_ onstruction_ be conducted Rules. ly forfeited in lection of the	peak. peak. peak. feet. Septement only purse the state hin such station is	o	Mckw) _kw) _ns dy cau
7. 8. 9.	Operating assign frequency	ment: y ed power 11.1 ut power on - unlimited. commencement of completion of co ogram tests shall of the Commission l be automatical; ithin the time sp allow unless comp	tached. legacycles. lsual 7.24 Mc. lbk(12.2 kw) lbk(5 kw) rain 380 construction onstruction be conducted Rules. ly forfeited in ecified or wit letion of the mittee. See S	peak. peak. peak. feet. Septement only purse the state hin such station is ection is section is section.	o	Mckw) _kw) _ns dy cau
7. 8. 9.	Operating assign frequency66_ Carrier frequence Effective radiat Transmitter outp Antenna height a Hours of operati Date of required Date of required Equipment and proceeding permit shall for operation will commission may not under the commission Rules. Subject to the	ment: y ed power 11.1 ut power 7 bove average term on - unlimited. commencement of completion of co ogram tests shall of the Commission l be automatical ithin the time sp allow unless componerol of the per	degacycles. degac	peak. peak. peak. feet. Septement only purse the state hin such station is ection is ection is ection is ection.	oAural	Mckw) _kw) _ns dy cau
7. 8. 9.	Operating assign frequency66_ Carrier frequence Effective radiat Transmitter outp Antenna height a Hours of operati Date of required Date of required Equipment and proceeding permit shall for operation will commission may not under the commission Rules. Subject to the	ment: y ed power 11.1 ut power on - unlimited. commencement of completion of co ogram tests shall of the Commission l be automatical; ithin the time sp allow unless comp	degacycles. degac	peak. peak. peak. feet. Septement only purse the state hin such station is ection is ection is ection is ection.	oAural	Mckw) _kw) _ns dy cau
7. 8. 9.	Operating assign frequency66_ Carrier frequence Effective radiat Transmitter outp Antenna height a Hours of operati Date of required Date of required Equipment and proceeded and 3.629 This permit shall for operation will commission may anot under the commission Rules. Subject to the This construction	ment: y ed power 11.1 ut power 7 bove average term on - unlimited. commencement of completion of co ogram tests shall of the Commission l be automatical ithin the time sp allow unless comp ontrol of the per attached condition on permit consist	degacycles. degac	peak. peak. peak. feet. Septer Tehrus only purs the stat hin such station is ection is. 720. and pages	oAural	Mckw) _kw) _ns dy cau
7. 8. 9.	Operating assign frequency66_ Carrier frequence Effective radiat Transmitter outp Antenna height a Hours of operati Date of required Date of required Equipment and proceeded and 3.629 This permit shall for operation will commission may anot under the commission Rules. Subject to the This construction	ment: y ed power 11.1 ut power 7 bove average term on - unlimited. commencement of completion of co ogram tests shall of the Commission l be automatical ithin the time sp allow unless componerol of the per	degacycles. degac	peak. peak. peak. feet. Septer Februa only purs the stat hin such station is ection is. 720. and page:	Aural 71.74 8.4 dbk(6.2 4.3 dbk(2.7 ber 22, 1956 xy 5, 1956 uant to section ion is not reafurther time as prevented by 314 of the Com-	Mckw)kw)ns dy _cau
7.	Operating assign frequency66_ Carrier frequence Effective radiat Transmitter outp Antenna height a Hours of operati Date of required Date of required Equipment and proceeded and 3.629 This permit shall for operation will commission may anot under the commission Rules. Subject to the This construction	ment: y ed power 11.1 ut power 7 bove average term on - unlimited. commencement of completion of co ogram tests shall of the Commission l be automatical ithin the time sp allow unless comp ontrol of the per attached condition on permit consist	degacycles. degac	peak. peak. peak. feet. Septer Pehrus only purs the stat hin such station is ection is. 720. and page:	oAural	Mc

F.C.C. Washington, D. C.

Gechtary

FCC Form 715 May 1953

🕷 نود مد د

OBSTRUCTION MARKING Call Latters: KBST-TV
ANTENNA TOWER(S) OR SUPPORTING STRUCTURE(S)

It is to be expressly understood that the issuance of these specifications is in no way to be considered as precluding additional or modified marking or lighting as may hereafter be required under the provisions of Section 303(q) of the Communications Act of 1934, as amended.

- Antenna structures shall be painted throughout their height with alternate bands of aviation surface orange and white, terminating with aviation surface orange bands at both top and bottom. The width of the bands shall be approximately one-soventh the height of the structure, provided however, that the bands shall not be more than 40 feet nor less than 1-1/2 feet in width. All towers shall be cleaned or repainted as often as necessary to maintain good visibility.
- There shall be installed at the top of the tower at least two 100- or 111-watt lamps (#100 A21/TS or #111 A21/TS, respectively) enclosed in aviation red obstruction light globes. The two lights shall burn simultaneously from sunset to sunrise and shall be positioned so as to insure unobstructed visibility of at least one of the lights from sircraft at any angle of approach. A light sensitive control device or an astronomic dial clock and time switch may be used to control the obstruction lighting in lieu of manual control. When a light sensitive device is used it should be adjusted so that the lights will be turned on at a north sky light intensity level of about thirty-five foot candles and turned off at a north sky light intensity level of about fifty-eight foot candles.
- There shall be installed at the top of the structure one 300 m/m electric code beacon equipped with two 500 or 620-watt lamps (PS-40, Code Beacon type), both lamps to burn simultaneously, and equipped with aviation red color filters. Where a rod or other construction of not more than 20 feet in height and incapable of supporting this beacon is mounted on top of the structure and it is determined that this additional construction does not permit unobstructed visibility of the code beacon from sircraft at any angle of approach, there shall be installed two such beacons positioned so as to insure unobstructed visibility of the structure unobstructed visibility of the structure of the secons shall be equipped with a flashing mechanism producing not more than 40 flashes per minute nor loss than 12 flashes per minute with a period of darkness equal to one-half of the luminous period.
- At approximately one-half of the overall height of the tower one similar flashing 300 m/m electric code beacon shall be installed in such position within the tower proper that the structural members will not impair the visibility of this beacon from aircraft at any angle of approach. In the event this beacon cannot be installed in a manner to insure unobstructed visibility of it from aircraft at any angle of approach, there shall be installed two such beacons. Each beacon shall be mounted on the outside of diagonally opposite corners or opposite sides of the tower at the prescribed height.
- 5 At approximately two-fifths of the over-all height of the tower one similar flashing 300m/m electric code beacon shall be installed in such position within the tower proper that the structural members will not impair the visibility of this beacon from sircraft at any angle of approach. In the event this heacon cannot be installed in a manner to insure unobstructed vinibility of it from sircraft at any angle of approach, there shall be installed two such beacons. Each boacon shall be mounted on the outside of diagonally opposite corners or opposite sides of the tower at the prescribed healest.
- On levels at approximately two thirds and one third of the over-all height of the tower one similar flashing 300 m/m electric code beacon shall be installed in such position within the tower proper that the structural members will not impair the visibility of this beacon from aircraft at any angle of approach. In the event these beacons cannot be installed in a manner to insure unobstructed visibility of it from aircraft at any angle of approach, there shall be installed two such beacons. Each beacon shall

- be mounted on the outside of diagonally opposite corners or opposite sides of the tower at the prescribed height.
- 7 On levels at approximately foursevenths and two-sevenths of the overall height of the tower one similar flashing 300 m/m electric code beacon shall be installed in such position within the tower proper that the structural members will not impair the visibility of this beacon from aircraft at any angle of approach. In the event these beacons cannot be installed in a manner to insure unobstructed visibility of the beacons from aircraft at any angle of approach, there shall be installed two such beacons, at each level. Each beacon shall be mounted on the outside of diagonally opposite corners or opposite sides of the tower at the prescribed height.
- 8. On levels at approximately three-fourths, one-half and one-fourth of the over-all height of the tower one similar flashing 300 m/m electric code beacon shall be installed in such position within the tower proper that the structural members will not impair the visibility of this beacon from aircraft at any angle of approach. In the event these beacons cannot be installed in a manner to insare unobstructed visibility of the beacons from aircraft at any angle of approach, there shall be installed two such beacons, at each level. Each beacon shall be mounted on the outside of diagonally opposite corners or opposite sides of the tower at the prescribed height.
- 9. On levels at approximately two-thirds, four-ninths and two-ninths of the over-all height of the tower one similar flashing 300 m/m electric code beacon shall be installed in such position within the tower proper that the structural nembers will not impair the visibility of this beacon from aircraft at any ningle of approach. In the event these beacons cannot be installed in a manner to insure unobstructed visibility of the beacons from aircraft at any angle of approach, there shall be installed two such beacons at each level. Each beacon shill be mounted on the outside of diagonally opposite corners or opposite aides of the tower at the prescribed height.
- 10. Cn levels at approximately four-fifths, three-fifths, two-fifths, and one-fifth of the over-all height of the tower one similar flashing 300 m/m electric code beacon shall be installed in such position within the tower proper that the structural members will not impair the visibility of this beacon from aircraft at any angle of approach. In the event these heacons cannot be installed in a manner to insure unobstructed visibility of the beacons from aircraft at any angle of approach, three shall be installed two such beacons at each shall be installed two such beacons at each level. Each beacon shall be mounted on the outside of diagonally opposite corners or opposite sides of the tower at the pre-cribed heights.
- 11. At the approximate mid point of the over-all height of the tower there shall be installed at least two 100- or 111-watt lamps (#100 A21/TS or #111 A21/TS, respectively) enclosed in aviation red obstruction light globes. Each light shall be mounted so as to insure anobstructed visibility of at least one light at each level from aircraft at any angle of approach.
- 12. On levels at approximately two-thirds and one-third of the over-all height of the tower, there shall be installed at least two 100-or 111-watt lamps (#100 A21/TS or #111 A21/TS, respectively) enclosed in aviation rad obstruction light globes. Each light shall be mounted so as to insure anobstructed visibility of at least one light at each level from aircraft at any angle of approach.
- 13. On levels at approximately throefourths and one-fourth of the over-all height of the tower, at least one 100- or 111-watt lamp

- (#100 A21/TS or #111 A21/TS, respectively) enclosed in an aviation red obstruction light globe shall be installed on each outside corner of the tower at each level.
- 14. On levels at approximately fourfifths, three-lifths and one-lifth of the over-all height of the tower, at least one 100- or 111-watt lamp (#100 A21/IS or #111 A21/IS, respectively) enclosed in an aviation red obstruction light globe shall be instalued on each outside corner of the tower at each level.
- 15. On levels at approximately fivesixths, one-half, and one-sixth of the over-all heightof the tower, at least one 100- or 111-wart lamp (#100 A21/TS or #111 A21/TS, reapectively) enclosed in an aviation red obatruction light globe shall be installed on each outside corner of the tower at each level.
- 16. On levels at approximately sixsevenths, five-sevenths, three-sevenths and oneseventh of the ower-sell height of the tower at least one 100- or 111-watt lamp (# 100 A21/TS or # 111 A21/TS, respectively) exclosed in an aviation red obstruction light globe shall be installed on each outside corner of the structure.
- 17. On levels at approximately severeighths, five-eighths, three-eighths, and ooseighth of the over-all height of the tower, at least one 100- or 111-watt lamp (# 100 A21/TS or # 111 A21/TS, respectively) enclosed in an aviation red obstruction light globe shall be installed on each outside corner of the structure.
- 18. On levels at approximately eightninths, seven-ninths, five-ninths, one-third and one-ninth of the over-all height of the tower, at least one 100- or 111-wait lamp (* 100 A21/TS or * 111 A21/TS, respectively) enclosed in an aviation rod obstruction light globe shall be installed on each outside corner of the tower at each level.
- 19. On levels at approximately ninetenths, seven-tenths, one-half, three-tenths, and one-tenth of the over-all height of the tower, at least one 100- or 111-watt lamp (#100 A21/TS or # 111 A21/TS, respectively) enclosed in an aviation red obstruction light globe shall be installed on each outside corner of the tower at each level.
- All lighting shall be exhibited from sunnet to sunrise unless otherwise specified.
- 21. All lights shall burn continuously or shall be controlled by a light sensitive device adjusted so that the lights will be turned or a north sky light intensity level of about 35 foot candles and turned off at a north sky light intensity level of about 55 foot candles.
- 22. During construction of an antenna structure, for which obstruction lighting is required, at least two 100 or 111-wat lamps (#100 A21/TS or # 111 A21, TS, respectively) enclosed in aviation red obstruction light globes, shall be installed at the uppermost point of the structure exceeds each level at which permanent obstruction lights will be required, two similar lights shall be installed at each such level. These temporary warning lights shall be displayed nightly from sunset to surrise until the permanent obstruction lights have been installed and placed in operation, and shall be positioned so as to insure unobstructed visibility of at least one of the lights at any angle of approach. In lies of the above temporary warning lights, the permanent obstruction lighting fixtures may be installed and operated at each required level as each such level is exceeded in height during construction.

Di 8-8-55 File No. BMCCT-3267 Call Letters: KBST-TV

FCC Form 720 April 1955

CRITICAL OBSTRUCTION

The construction of the antenna structure is subject to the following conditions:

- 1. The height of the uppermost point of the antenna structure, including the required obstruction lighting and any other attachments, shall not exceed 2960 feet above mean sea level.
- 2a. A bench mark shall be established on the tower base. The elevation above mean sea level of the bench mark shall be determined within one foot from a line of spirit levels from a Municipal, State, or Federal bench mark that is a part of the national level net.
- b. The horizontal position of the tower site shall be determined within 1/2 second of latitude and longitude by a ground survey tied to a municipal, State, or Federal control point that has previously been connected to the national geodetic network.
- engineer or surveyor shall be submitted with the license application setting forth the geographic coordinates of the structure and the over-all height (which shall include the obstruction marking) above sea level of the completed structure, and describing the survey and the reference points upon which it is based, together with a plat of the antenna site and vertical plan sketch of the antenna structure portraying pertinent details.

THIS FORM IS A PART OF AND SHALL BE ATTACHED TO THE CURRENT INSTRUMENT OF AUTHORIZATION

ENGINEER'S COPY

TELEPHONE AREA CODE 202 296-2315

A. D. RING & ASSOCIATES

CONSULTING RADIO ENGINEERS

1771 N STREET, N. W. WASHINGTON, D. C. 20036

NATIONAL ASSOCIATION OF BROADCASTERS BUILDING

A. D. RING HOWARD T, HEAD MARVIN BLUMBERG OGDEN PRESTHOLDT

June 30, 1970

BROADCAST FACILITIES

City of Washington)
District of Columbia

នន

JUL n 1970

Marvin Blumberg, being first duly sworn, upon oath deposes and says that he is a consulting radio engineer, a partner in the firm of A. D. Ring & Associates, with offices at 1771 N Street, N. W., Washington, D. C. He is a registered professional engineer (Reg. No. 4492) in the District of Columbia. His qualifications as an engineer are a matter of record with the Federal Communications Commission.

The firm of A. D. Ring & Associates has been retained by Grayson Enterprises, Inc., licensee of Television Station KWAB-TV, Big Spring, Texas, to determine whether the location of the predicted Grade A and Grade B coverage contours of Station KWAB-TV, as depicted by data presently on file with the Commission, would be changed by calculations made in accordance with the method outlined in Section 73.684(c) of the Commission's Rules, as amended by the Commission's Report and Order in Docket No. 17253 released April 3, 1970.

Station KWAB-TV presently operates on Channel 4 with an effective radiated peak visual power of 12.9 kw from an antenna having an effective height of 380 feet above the average elevation of the surrounding terrain. Station KWAB-TV utilizes a General Electric Type TY-60-C antenna. No beam tilt is employed.

Calculations made in accordance with the method outlined in Section 73.684(c) of the Commission's Rules, as amended, indicate declination angles varying from a minimum of 0.19° to a maximum of 0.37° in the various radial directions. An examination of the vertical plane radiation pattern for the authorized antenna indicates that the relative field over this range of declination angles exceeds 90% of the horizontal field. Therefore, the effective radiated peak visual power in the horizontal plane is employed throughout to determine the distances to the predicted Grade A and Grade B coverage contours, representing no change over the previous prediction method.

A review of the coverage data presently on file confirms that no change is involved in the location of the coverage contours resulting from application of the new Rules and the map showing the extent of these coverage contours is contained in the station's license file at the Commission.

Affiant states that the calculations in this report were made by him personally or under his direction and that all facts contained herein are true of his own knowledge except where stated to be on information or belief, and as to those facts, he believes them to be true.

Marvin Blumberg, Affiant

Subscribed and sworn to before me this 30 km day of June, 1970

Florence J. Mitchell
Notary Public

My Commission Expires: April 30, 1971

TRIPLICATE

LAW OFFICES

BERNARD KOTEEN
WILLIAM C.BURT
ALAN Y. NAFTALIN
PAUL Y. SELIGSON
RAINER K.KRAUS
VICTOR E. FERRALL, JR.
JEREMIAH D.LAMBERT
ANDREW L. FREY
*ADMITTED IN NEW YORK ONLY

KOTEEN & BURT
1000 VERMONT AVENUE, N.W.
WASHINGTON, D.C. 20005

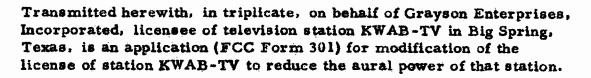
TELEPHONE
REPUBLIC 7-5566
CABLE ADDRESS
"KOBURT"

February 21, 1966



Mr. Ben F. Waple, Secretary Federal Communications Commission Washington, D. C. 20554

Dear Mr. Waple:



The Commission's attention is directed to the fact that no construction permit is either requested or required and, therefore, the Commission is requested to treat this application as an application for modification of license, which, upon being granted, will permit the station to operate immediately with reduced power without the necessity of filing any additional application.

In the event there are any questions concerning this matter, please communicate with this office.

Very truly yours,

Victor E. Ferrall, Jr.

Enclosure

RECEIVED

FEB 2 1 1966

OFFICE OF THE SECURETAR







FCC Form 301 Form Approved File No. 39 LCT-556 Nov. 1962 Budget Bureau No. 52-R 014.17 Name and post office address of applicant (See Instruction D) UNITED STATES OF AMERICA Section I FEDERAL COMMUNICATIONS COMMISSION Grayson Enterprises, Incorporated APPLICATION FOR AUTHORITY TO CONSTRUCT A NEW BROADCAST 7400 College Avenue STATION OR MAKE CHANGES IN AN EXISTING BROADCAST STATION Lubbock, Texas INSTRUCTIONS A. This form is to be used in applying for authority to construct a new AM (standard), commercial FM (frequency modulation), or television brondenst station, or to make changes in existing broadenst stations. send notices and communications to the following-named personat the post office address indicated if different than above W. M. Windsor, above: cc: Koteen & Burt. This form consists of this part, Section I, and the following sections: Legal Qualifications of Broadcast Applicant Windsor, above: cc: Koteen & Burt, 1000 Vt. Ave. N. W., Wash. D. C. Section III. Financial Qualifications of Broadcast Applicant 1. Requested Cacilities Channel Minimum hours Frequency Power in kilowatts Statement of Program Service of Broadenst Applicant No. 12". 75 ERP vis 66-72 Section V-A. Standard Broadenst Engineering Data 52 ERP aur. 17 mc Hours of operation Section V.B. FM Broadcast Engineering Data Unlimited Sharing with Other Section V-C, Tolovision Broadcast Engineering Data (Specify Stations) Daytime only (Specify) Limited Section V-G, Astenna and Site Information B. Propose three copies of this form and all exhibits. Sign one copy Type of station (as Standard, FM, Television) of Section I. Prepare two additional copies (a total of five) of Section Television V-G and associated exhibits. File all the above with Federal Communications Commission, Washington, D. C. 20554. Station location C. Number exhibits serially in the space provided in the body of the City _ State form and list each exhibit in the space provided on page 2 of this Texas Big Spring Section. Show date of preparation of each exhibit, antonna pattern, and 2. If authority to make changes in an existing station is map, and show date when each photograph was taken. requested D. The name of the applicant stated in Section I hereof shall be the (a) Present facilities exact corporate name, if a corporation; if a partnership, the names of all Frequency Call Channel Power in kilowatts Minimum hours partners and the name under which the partnership does business; if an 2gh75 PRP vis unincorporated association, the name of an executive officer, his office; 66-72 TV and the name of the association. In other Sections of the form the name mc need be only sufficient for identification of the applicant. hours of operation E. Information called for by this application which is already on file Unlimi ted Sharing with Other with the Commission (except that called for it. Section V-6) need not be (Specify Stations) Daytime only (Specify) refiled in this application provided (1) the information is now on file in Limi ted another application or FCC Form filed by or on behalf of this applicant; (2) the information is identified fully by reference to the file number (if Station location ony, the FCC form number, and the filling date of the application or other form containing the information and the page of paragraph referred to, State and (3) after making the reference, the applicant states: "No change BigSpring Texas since date of filing." Any such reference will be considered to incor-(b) If this application is for changes in an existing authorization, comporate into this application all information, confidential or otherwise, plete Section I and any other sections necessary to show all substantial contained in the application or other form referred to. The incorporated changes in information filed with the Commission in prior applications oapplication or other form will thereafter, in its entirety, be open to the reports. In the spaces below check Sections submitted herewith and as to public. Sections not submitted herewith refer to the prior application or report con-F. This application shall be personally signed by the applicant, if the taining the requested information in accordance with Instruction E. (If conapplicant is an individual; by one of the pariners, if the applicant is a templated expanditures are less than \$5,000, complete paragraph 1 of partnership; by an officer, if the applicant is a corporation; by a member Section III only. Section IV is not required for applications for minowho is an officer, if the applicant is an unincorporated association; by changes not involving change in power, change in frequency, change in such daily elected or appointed officials as may be competent to do so nours of operation, or moving from city to city.) under the laws of the applicable jurisdiction, if the applicant is an oligible government entity; or by the applicant's extorney in case of the Section No. Para. No. Reference (File or Form No. and Date) applicant's physical disability of of his absence from the United States ∃section II No change The attorney shall, in the event he signs for the applicant, separately Section III Not applicable set forth the reason why the application is not signed by the applicant. In addition, if any matter is stated on the basis of the attorney's belief Section IV Not applicable only (rather than his knowledge), he shall separately set forth his Section V reasons for believing that such statements are true. have there been any substantial ch G. Before filling out this application, the applicant should familiarize in the information incorporated in this

number of other amplication.

Not applicable CATIONS MAY BE RETURNED WITHOUT CONSIDERATION. *This application is for a modification of license to reduce aural power.

application by reference in this paragr

pending application, state name of other

If this application is contingent

himself with the Communications Act of 1934, as amended, Parts 1, 2, 3

and 17 of the Commission's Rules and Regulations and the Standards of

H. BE SURE ALL NECESSARY INFORMATION IS FURNISHED AND ALL PARAGRAPHS

ARE FULLY ANSWERED. IF ANY PORTIONS OF THE APPLICATION ARE NOT AP-PLICABLE, SPECIFICALLY SO STATE. DEFECTIVE OR INCOMPLETE APPLI-

Good Engineering Practice.

17 -4 35

Fig. 1981, LANT hereby warven any claim to the use of any particular frequency or of the other as against the regulatory power of the United States because of the previous use of the mane, whether by license or otherwise, and requests an authorization in accordance with this application. (See Section 304 of the Communications Act of 1934).

THE APPLICANT represents that this application is not filed for the purpose of impeding, obstructing, or delaying determination on any other application, with which it may be in conflict.

THE APPLICANT acknowledges that all the statements made in this application and attached exhibits are considered material representations, and that all the exhibits are a material part hereof and are incorporated herein as if set out in full in the application.

CERTIFICATION

I certify that the statements in this application are true, complete, and correct to the best of my knowledge and belief, and are made in good faith.

Signed and dated this 14th day of February 1966

EFFECTIVE JANUARY 1, 1964, INCLUDE FILING FEE WITH THIS APPLICATION. SEE PART 1 OF FCC RULES FOR AMOUNT OF FEE.

WILLFUL FALSE STATEMENTS MADE ON THIS FORM ARE PUNISHABLE BY FINE AND IMPRISONMENT.
U. S. CODE, TITLE 18, SECTION 1001.

GRAYSON ENTERPRISES INCORPORATED

(NAME OF APPLICANT)

By Cocco M. Colomature)

Title Executive Vice President

If applicant is represented by legal or engineering counsel, state name

	ished as required by t				1
xhibit No.	Section and Para. No. of Form		or employee (1) by exhibit was prepa	whom or (2) under ared (show which)	Official title
1	§v-c,				
	para. 6	Jackie D.	Burge	(1)	Chief Engineer

Broadcast Application		FEDERAL COMMUNIC	ATIONS COMMISSION			Section V-C
TELEVISION BROADCAS		e of applicant	7		_	
ENGINEERING DATA	-	rayson Ente	rprises, inc	_ \ _		
1. Purpose of authorization ap		dicate by check mark		•	* =	
(If application is for a ne change E is of a character	w station or for	r any of the changes	numbered B through D,	complete al	1 parag. a	they fithis form; if
answer all paragraphs, oth	erwise complete	only paragraphs 2 a	nd 7 and the appropriat	e other par	agraphs;	for changes F U. I,
complete only paragraph 2	and the appropri	iate other paragraph	s; for change J, comple	ete only par	agraphs 2	, 5 and 16(b).
A. Construct a new station			F. Construct or o	change auxil	iary ante	nna system
3. X Change effective radiate	-		C. Change transiti			
1 _	anterna height above average terrain				ernate	
C. Change transmitter locat	main transmitt I Other changes					
D. Change frequency E. Change antenna system	J. Change studio					
2. Facilities requested	•		7. (a) Antenna struc		o chan	
Frequency			Is the proposed construc			Yes No
	Charmel No.	4	vicinity of any other radi			
6672			any other radio station?			
Effective Radiated Power Effective Radiated Power Effective Radiated Power Effective Power Effective Radiated Power Effe	ective Radiated er (aural)	Antenna height ' above average	engineering data showing	g dotails and	effect upon	other station.
		terrain	Submit as Exhibit No.			a sketch for the proposed
	фк: 4. 074	İ	ground in feet for all sig	nificant feat	ntea.	any) giving heights above
In kw: 12,75 In 3. Station location (principal		380 feet	Overall height in feet all (Without obstruction ligh		Overall h	eight in feet above mean - (Without obstruction
State State	City or town		1	J.	lighting)	•
Texas	Big Sp	ring	Overall height in feet ab	ove second	Overell b	alabi ta fasa akan
4. Transmitter location			(With obstruction lighting		sea level	eight in feet above mean . (With obstruction lighting)
State	County					
Texas	Ho	ward	Height of antenna rad	iation cent	er	
City or town	Street Address cation)	(or other identifi-	in feet above mean se Geographical coordina		rnc (ta -	feet
Big Spring		tucky Way	North latitude	ues or ance	wa (to m west long	
				=	•	0 • •
5. Main studio location State	County		How were coordinates	_		
Texas	Howard	3	determined?			
City or town	Street address		Indicate by check mark the			
Big Spring	2500 Ker	tucky Way	zone in which structure is 1 2 3 1 1 2 3 1			
Dig Opting	2500 Rei	rucky way	(b) Antenna data No Change			
6. Transmitters See Ext	nibît No.	1	Visual Type No.			
Visual Nake	Type No. Rat	ed power	\$ made			Type No.
- 1	תז	фк: 6.99	Ì			
General Electric T	"'' 10A 1	kv: 5.0	Number of sections	Danad da		
Aural			Manager of Sections	Rated imp	•	Power gain in db
llake	• 1	ed Power dok: 0	7			:
General Electric	ו גר או החידו	kw: lk	Aural (if separate)	!		
(If the above transmitter has not	been accepted for	r licensing by the	Hake			Type No.
F.C.C., attach as Exhibit No.	-	plete showing of				
transmitter details. Showing sho	ould include scher	natic diagram and				
full details of frequency control.			Number of sections	Rated imp		Power gain in db
licensed transmitter include sch	ematic diagram an	d give full details		in à	bk	
of change.)						
(a) Describe in Exhibit No	means which will	be used for deter-	If directional ante	nna is pro	pos⊬d. gi	ive full details in-
mining and maintaining power output			cluding horizontal as Exhibit No.	and vertic	al plane	radiation patterns,
specified in this application.				entos) har-	**1**	
(b) Bultiplexer: Nake		_ Type No	Is electrical or mechanical beam tilting Yes No Droposed? If so, describe fully in Exhibit No.			
	o Change		including horizontal a	and pertiner	nt vertica	il radiation patterns.
Rated imput power	_ ďok		Will anterna be altere	d to provid	le null fi	ll-in? Yes No
Rated loss: Visual	If yes, describe fully in Exhibit No.					

TELEVISION BROADCA						T ENGINEERING DATA				Sec	tion V-C,	Page 2
8. Transmission line proposed to supply power to the antenna from						the transmitter	No	cha	nge			
(a) Visual						(b) Aural (if s	eparate)					
Make		Type !	No.	Rated in dol:	imput power	<u>Kake</u>		Type :	io.	Rate in d	d imput po bk	rwer
, ·	Size (nominal inside transverse dimensions) in inches							1 '	r loss in length	do for		
9. Proposed opera	Ation											
(a) Visual No change				(b) Aural		_						
Transmitter pa (after vestign band filter,	ial side-	hul	tiplexer le in db:		put to trans- ssion line in dbk:	Transmitter poutput	ower		iplexer los in db: 006	ss	Imput to mission I	line in
In dbk:						In lor: 1				ł		
In kw:		<u> </u>				111 43: -		<u> </u>				
Transmission line power loss in db:	Antenna in power in d		Antenna p gain in d		Effective radi- ated power	Transmission line power loss in Gb:	Antenna : power in		Antenna po gain in d		Effective ated power In dok:	er
					In dbk: In kw:	. 54	546	ó	4.62		In dox:	
10. Modulation m	onitors		No ch	ange		14. (a) Attach	s Exhibit	No.		(במבו	(s) (topogr	raphic
(a) Visual moni	tor or moni	toring	equinment			where obtainabl						
linke			·	Тур	≥ No.	for the area wi cation and show						er 10-
(b) Aural monit						1. Proposed transmitter location—accurately plotted;						
liake				Тур	≥ No.	 Transmitter location and call letters of all known radio stations (except amateur) and the location of known commercial and government receiving stations within 2 miles of the proposed transmitter location; Character of the area within 2 miles of proposed transmitter. 						
11 Promisens me	nitore	Nο	change									
(a) Visual moni		210	Change			1					•	
Make		7	Type No.	Acci	uracy	mitter location, suitably designated as to residential, business, industrial, and rural nature; 4. At least eight radials each extending to a distance of				of		
(b) Aural monit	or					ten or more						
kake		Т	Type No.	Acc	uracy	city to be s	chang	ge		Ū		
12. If the above	200 10	chirto.	as Exhibit	No.	n brief	(b) Attach	as Exhibi	t No.		prof	ile graphs	with
technical descr	iption of e	ach. I	Not ap	olica	ble	reasonably larg						
13. Will the stu and other equip	dios, camer ment propos	as, mi	icrophones, r trans—		Yes X No	ation center. proposed trans	Identify mitter loc	each g ation.	graph by it Direction	ts bea	aring from true north	the
mission of prog pliance with th	•	-				Shall be zero a			_		No ch	na na e
					hr mila distance	<u> </u>						
				_		between two and te n's Rules, supply t						maribii,
Radial bearing (degrees true)	ol t	erage ele adial (2- cer above	16 mi.) e mesa	radia avera	in feet of Litterion tion center above se elevation of int (2-10 ml.)	Effective radiated power in radial direction		Prediction of the Gra	niles		Predicted distance in mi to the Grade contour	
00	4-9844400		feet		feet	dbk			mi.			mi.
<u>45</u> 90	***************************************			b-Jo 1640-435	monormo ag lio ligo s » « « «	**********************						
125				- 77					*****			-
160	***************************************			-17.0	change							
225					**************************************	40						
270											·····	•
325		***************************************			M	*********************	*******	***********			··· ·········	• n
(0)	***					h-4						•••
Aver	-											
*Radial over prin				luded a		clude in average. St be identical with	Dewa	,b, •A				
Western HerElle	mnse creud	2 OC. 1				se ne inculticat affi	· LoreKLsi	(ک ۱۰۰				

Ropade:	ist Application	TEL	EVISION BROADCAST	ENGINEERING DATA	Section V-C, Page 3
lt. At charts lay) (a.	tach as Exhibit No. s where obtainable, pro of the area proposed to) Proposed transmitter which the profile gra) The studio location a community;) The predicted Grade A	ferably without as be served and sho location and the r phs have been pre- and boundaries of t	andrawn thereon; andials along wared; the principal	17. Attach as Exhibit No. photographs taken in clear were and angles to show the nature the vicinity of the proposed t graphs must be marked so as to graphs taken in eight differer position on the ground will be werial photographs if the area Give date photographs were taken	of the surrounding terrain in transmitter site. The photo- o show compass directions. Photo- ot directions from an elevated e acceptable in lieu of the a can be clearly shown.
2.3	above:) The required minimum	field strength cor	itour:		
) Scale of miles.	No change		No change	
				n accordance with the method pres	scribed in the Commission's Indee
be pr	ovided over the entire	principal communit	ty proposed to be s	Not applicable	Yes
	ll the main studio be l nity proposed to be ser		limits of the prin		Yes No
2). (a) Does the proposed tra the Commission's Rule		comply with the m	nimm separation requirements of Not applicable	Yes \(\) \(\)
Ь	or if other channel s such sevarations belo the location and geog	separations are pro bw. (Include exist graphical coordinate	oposed that are lest ting stations, prop tes of each antenna		parations blus Marmiles, list spear in the table of assignments: point as appropriate; the distance
				Not applicable	
	f this is an application and indicate w			ermit state briefly as Exhibit No will be completed.	o. the present status of
	·			Not applicable	
cat of	ion is submitted and the my knowledge and belie ch the information con	hat I have examine f. (This signatur	d the foregoing st e may be omitted p been obtained is a	r Consulting Engineer of the radi intement of technical information rovided the engineer's original s ttached hereto.)	and that it is true to the best

.

, •, •,

1

"م ،

Exhibit No. 1 February 14, 1966

This application is for permanent reduction of aural power.

The change will be accomplished by reducing the voltage on the final stage of the tower amplifier.

RECEIVED

FEB 2 1/366

OF THE SECRETARY

Pore BC 126

June 1984

ESCHOLD OPER TO BE THE PROPERTY OF THE

Name of Licensee KIDIAND THEORYTON CONTANT

Wilco Bidg., Martenfeld and West Wall Sta., Midland, Texas (B'37-1253 12-17-70) Warlonfield and Wall Streets, Midland, Texas (MCCF-5660, 13-13-1) Transmitter location Ecoutheast corner of Martenfield & Mall Streets, Mailans, Texas

ADVI West Wall St., Midland, Texas (RPC)-4460 I-14-72)

N Wileo Bldg., Marienfeld and West Wall Sta., Midland, Texas (NCT-1163 12-17-70)

* 3706 Rest Ball St., Midland, Texas (DNSUT-5660 16-13-61)

Main studio location Southeast corser of Martenfield & Sail Streets, Eldlaw, Texas

	and the second s	· 自由的1998年1998年1998年1	MARKET THAT CHARLES	MUST have drawn to provide a remove a con-	SAME OF A COLUMN TO SERVICE OF THE S
- 1984 - 1984	i i i i i i i i i i i i i i i i i i i		A COLUMN	1 1000	Sept. Co.
No.	Lade-er	1.00	H-PIE,	944	
	3-11-61	may dile d		\$	Franklight (Frankligher) The Control of Great
	4		V-0.531		1-11-61
		(Jan 1973)	A - 20 4 4		
7.30.10.1	a few rise was the see that	ica a di			1130.
W	B 194 3-61	CH ATS		Aw 1	
A5: 3001				***********	7 TO X 2 TO X TO X
Mod St		o et e . Si	P 64. name	State State Commission of the	
Mary Comment	The second second	" we " the first to " light			
					a contractly
Bernellander († 1865) Bernellander († 1865)			. 3		
TALL THE STATE OF	· * 1		¥	_ / 2.4	401

GAS 5-1'-62 A ACCES AND SONE FRANCE OF ACCESS ON ACCESS ON SONE FRANCE OF ACCESS ON ACCESS ON ACCESS ON SONE FRANCE OF ACCESS ON ACCESS

	3.50]		100 miles - 100 miles (100 miles 100	See and the section of the section o	Promit the deliminary of the common payment.
	e tracement and	**************************************	Free	Poste de	\$701	Frame In
	N. A.L.	£6*5+3	SELUIA	Tri 4, 1	POLICE	AN EXCEPT AND ASS.
Sun	A 13 13 12 12 12 12 12 12 12 12 12 12 12 12 12			rigio.		*45
		4-3-55	MELETAT	TY 4. W	ONIECTI	
		The same of the sa		141	\$+03.	1
I.	OF 2 4-34	7-11-07) No 11277	ettile Arrimet		he owne	
	Will.	No. No. No. No.				
		4				
	11	1.44.65		11 7 7 T	Carried to the second	A Maria Construente Santa
					4-10-6	
				t 11,		
		7*11-06 81 710:31			X 2-17 78	The second second second second second
****			ili Gilea, es		and the same and	e Bandisi, sejem, notes, frem, talasti, shoren anticis s
				45		
				1		4
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4.44	111. [#		cant sta	tor results
	*1*12			and which they have	THE THE PART OF THE PART OF THE	
			开足 法制定制	经税 医多种素	S 19824 7 2	Leculoi
11	4.4	20 - 11 - TUE				12-17-70
7			4. F. Y.	A MAG	ernia.	8-1-71
		2811 se e				the contract that the contract the
Toronto.		J*****	Panink	· KEKL	lius of s	k Kanctac
			5644) .	31.301	MP. PLY	200. her. 71
ń						HASCE WITH
		5-20-741		Si, izi		
				14. XI.		12:15-71
		The state of the s	32.41 3 3 2 1 3 3 1 3 1 3 1 3 1 3 1 3 1 3 1		1 cm, 5 2 2 12 12 12 13 13 13 13 13 13 13 13 13 13 13 13 13	
Ya Tes				w. wi		1-21-22
er i		3•16-03-01 31-4-1-1	1, 1,	• 3.3.	ku Da	3-16-7/
1				, · • • • • • • • • • • • • • • • • • •		Weite-71
7.	were the sea than	the true and the	The same and	was one seek a	m to me one de	where they have been been been so
Testes	*********	* * *				

244) 428 (545) 4 (545) 71. (54	rente, en elem systems productive	ورا واستواناتهانا	. يُشتوني داني د ديون	all Le and Egger Colonia	result resistance con a re-	
¥μn:	i Date			1 (1) (1) (1) (1) (1)	first to:	
*40.	Epicaniji waa sa sa sa sa sa	i i i i i i i i i i i i i i i i i i i	1,000		A production of the second sec	
The state of the s		Auth re	sain sile		State of the State	
		Aut h	o remain			
PANG EXCHANGE	100 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		and the time ages of			1.4
WINE.	i tagaya	MUD, COM	F. COMAT.	dan nej		
IMO LIC. APP	li. Alle.	ANT STAT	BUT HEIMS	PLATE & PAR	ia el Primere	
1 X X X X X X X X X X X X X X X X X X X	all thinks at		This feet and	A Para Winner	Sough triple Alapace	
《 通过特别方式与特别的。	JIM . ITM.			ATE OF ST	第二首 2210	
THE CA MARKET	数性 医内侧侧侧侧	MY MATE			THE WAY WE'VE	
EAGSED THAT	ANTH. IN	WHI.	HHMIT,	ávia ved	OFER ON	
MERCES PRINT	Grand State of Language of the commence of the	Annual Control of the	Na range Adams I in the last of the last o	. 2		
Wire.	2-1-7	Marke (1	AND LIE		Marie Carlotte Carlot	
TIME INC. 1-	W		是在了1011 12 ME	SELECTION OF SELECT	Carefallon of the second	
李标本本教的社会 ,严重点	FIRE AND AV	A Part of the second		3 T 568 1 (TX) 4 49 1 1	SPECIFIC SUPPLED	
建筑工程工程工程工程工程工程工程工程工程工程工程工程工程工程工程工程工程工程工程		CLERANC	PRESCRI	MAD IN SAC	. 73.(87(8)	
F. F. FARRESTATE				9		
THEOR TO	4.13.73	RESEWA		SSE (a)	8-1-14	
	and the second	des de de des		his the his cost that	the age to the second of the s	
* * * * * * * * * * * * * * * * * * *	3 -2-73	Permit in		instruc. A	ecord. Here	
		3 1 1 1 1 1 2	3 4 3 mm	Travers of the said	and the same of	Trees to the same of
	1. 40 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		A ALTON	at the same and	MAP ANY STA	
	一种 人名 一种 人名英格	F-30 80 W 5 20 50	A SOUTH AND A STATE OF THE PARTY OF THE PART	The state in some &	S. W. Ann IV	
	公司的公司		· 新原於養養 神经學	The way of the same	A 4 10 10 10 10 10 10 10 10 10 10 10 10 10	
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 2 20 20 20 20 20 20 20 20 20 20 20 20	· 野歌河南西海	2 . 3 . 2 . 2	and the second s	
	\$2.00 CO.		10.7 W 经通过工作	may not a	J GO - AZCONG ZCHOL That	
	auth. In	MTCI-//		- to an income and the contract of the contrac	en han der eine ein der eine eine eine eine eine eine eine ei	Se i
	V. W.					
						6
	į	ing direct				
4100	4.00.7%		. 0111	ile. sppli		P 1. 4
	et A Aram	tami		:10. 5 00.1 : 11-24-13		
	construct	ton ton	a e pubbat		NO WY	
100					the same and the same page.	
	week their wife done in	in the was don't	wie ware side ones des	ne Stuff Hills in a weath the	. — — — » Bi prii.,	
	The state of the s		The state of the s		203	
au i. grid.						A STATE OF THE PARTY OF THE PAR
www.reg.es	Charles " City Thenthe Santa Laboration					
TO THE REAL PROPERTY.		icye at	D. 02 4			7
lit.	5-4-0-77	iu'h.rom	ain atlep	i er andel	7,785,777.	
						*、

F444 85-121 #1

APPLICATION RECORD - BROADCASTING

Com. IT

Call

Letters 👋 4000-TV

Fame William Tistes in corporat

file No.	Dated		Nathre d	Cate
		Of for a new Cost 77 3/0 station Frag: Co #18, 604-500 Ros. Show Yis. O.000 RW ANT. C.500 RW Bours of operation! Unitarized Station Locations Sidiend, Texas Shi S Corner Authoritals & Wall Street. History, Texas	The control of the co	
	i	T-is S Corter Sarienfield & Voll Streets. Williand Jesus (Tis & Aut. Of IT-74) (46) Filed by 4. Sullians, Steetron Corporation That. Kest Traceman Amound In Change in Fileers, Mysobors and Stockholians, (Financial)	rening. The Peter Section and American Section	

APPLICATION RECORD - BROADCASTING FORM BC-121 #2 CONTROL TE Aug. 1955 Cell Letter Andrew MDIAND TELECASTING CONTACT dans Milani, lexus Action File No Cated Application for Matura 2014 BETOT-7-26-61 Mod. of OF (PPCT-COLL, with authorized a RETURNED | WILL-STITE # 519 Amin met 1 new Coss. Ti b/C Station to change Will from AT CACHESTOS ALTONOMOS Visual J.A31 aw, Apral U.JA, by IJ Piscal 0.660 kw, Aural 0.338 kw, Change TL & Ci. from Southeast corner of Marienfield & Wall Streats, Midlens, Texas TO North - Me d U.S. Ki-Way & between Milkiff Rd. & Incomer Month Midland, Texat paids chanced in acteurs system First sate was beauth there were a termin to by the First Marky, Atty. Theatres Corporations Mayor, Indias, the 18(1.1) is t c. a - Washington, D. C.

Card # 1 COM. TV 9/C Page first Heensed 3-19-57 (Aft, No. 319) Call fellers XXX-XX (Sta. Los. Luftin, Texas) STATICS ID: LUTLIB-MADININCHES, TEXAS (Lar. 1-13-76) Name of Heensee X POREST CAPITAL BROADCASTING COMPANY Transmitter location 1.4 miles Northwest of Clawson, near Lufkin, Texas KIRETV Main studio location 1.4 miles Ropthwest of Clavego, mean lockin, Texas

AS

The state of the s	Thomas Commerce with the restrict.	aglage, as + \$5 g	nun (Singraphi) in die	90.00	
Authorities	1 466	LANCE OF TOTAL	7 800 B 800 T	T. Maria	pulification
	A Company	Hill bedieved	1200 (0)	r i-r-	pustrow a l
	23(************************************	At \$ 253, X021.44	9 15 76		1-17-55
NOT-190	B 11-17-54	Ch. # 9	6 8 27m	1	7
		186-1929	TO 8		1.50
C for a	new Comm.	rv 3/6	Statloni		
	THE CONTRACTOR			je te the	
	er i mit durit i	- 4	1.4 %		
		A		To a series	
ises, IT (E)					
s save of	ast wallin	医一种 医原	· Mile · P	B DEFERENCE	elem of traffe.
A COLUMN TO SERVE	为 第95条。			de 131 · ·	
WITE GATE	Lee spa a	KANTED OF	ER COM	HASIS ACQ	ord or (most-
SOCIAL POL	the Same	W 9-1-5E	INNOIM	FECULT T	CT TREITIED
	and the B				
SOLL COLUMN SECTION	a see was some him	the same and make the		روود هروزو الحالة فيمش ال	anger, hick coming imper states action have based.
WINE	8-23-55	BIT. STA	KTRI-TV	operate	Comm. Nesis
Ascord.	CP (NOT CT-	2 988) per	d. Illip	g of lio.	aril. Auch.
emirse	10-18-85.		an see see se	الدو دښد بيس پيس	in the man is the first that was
the same with the same		1		erage.	
the same of the	· 经股份的工作的的 ·	And the second is the	arten!	gampiabid	
2 W W W		or ore	en Comm	. hasts s	coord, CP-BVICT-
7.3	344.7433	7. 7. 1.	Arms	ista are	tres 4-18-56
	6 :10. 17:71		* 7 11. * 1		ire is 4-18-56.
	A Profession of the contract of				
	Y and	100		V MINT	196
VIXI	1-2-26	Pending 1	iling of	lio. epi	11., ext. sulh.
eronted	to one at	e temp. I	or per.	'llo. epr	11., ext. suth. -1-86 Comm.
eronted	to one at	e temp. I	or per.	'lle. err eraine l'	ill., ext. suth. 11-26 Comm.
eronted	3-22-56 to one at cordT(e temp. I	or per.	'lio. ess midire l'	11 ext. euth. -1-86 Comm.
eronted	to one at	e temp. I	or per.	'lio. epp endire 10	11 ext. euth.
eronted	to one at	e temp. I	or per.	'llo. epr ending 10	11., ext. ext
eronted	to one at	e temp. I	or per.	'lio. epp ending 10	11., ext. evil.
grantel Rasis_s	to one at	e temp. I	or per.	'lio. epp ending 10	11., ext. ***
grantel Rasis_s	to ope at corë. P(e temp. I	or per.	'lio. epp ending 10	11. ext. evil.
granted Rests se	to ope at cordP(10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2		11., ext. evih.
granted Rests se	to ope at corë. P(2		Li, ext. evin.
granted Resta se	to ope at				
granted Resta es	to ope at				
granted Resta es	to ope at				11., ext. ****
granted Resistant Macrines	to one et cord2(NCCT-38			0-1-59/0-1-4/2
gronted Restales IMAGE-319	to me et cord2(NCCT - 8	Salle	enting to	U-1-39/8-I-02
grouted Restricts 1992 - 119	to me et	SINTE SINTE SELL WALL			S-1-59/8-I-// Purol of Ilem-
grouted Restricts 1992 - 119	to me et	SINTE SINTE SELL WALL			S-1-59/8-I-// Purol of Ilem-
granted Resistant American Ame	to one et cord2(SINTE SINTE SELL WALL			S-1-59/8-I-// Purol of Ilem-
granted Resistant American Ame	to me et	SINTE SINTE SELL WALL			S-1-59/8-I-// Purol of Ilem-

	punganan manan dalam	oj de estado en mando s	e dang panjakanah la	ini contra anteriore. Lista	egene signe i erelaktronspitterer Yasar bjark
Appl 1	linte Install	rea.	estant est	DEV.	श्विरतम्। <u>दे</u> क
anct-319	martines are considerable	lander strade or f	29.10	sine	Secretaria de la composition della composition d
HENSWAL OF	LICENSE	}		on the sign who had not been the sign who	ago para nasa nasa ngan tang mga kana nasar dipa nasar naga mananga
BAICT-245 FOREST CAPT	11-13-64 114400 147	Volunts TCATION	ry assi CORP.	tament of EFF:	licesse to
	1.10.65		and the same		The second secon
	3	1-1-107	5. TV, 1	L	2
MIGT-IN	2-10-5A		A-5.5 K	Same	2-10-66 8-1-68
Mod. of 1	أبير فحديث بساميمة بشاحا أعرارة	reduce A	ural ER	a	
BRUTE NO.	7-29-68	() RENE	AL OF L	CESSE	and the special states
BPC1-4270	8-27-69 (F to chi	type t	tangmillar	a 10-27- 89 4-27-70
and the same are now a	y . y . 70		ED IIC.	APPLIAU	
on Pia acci	2. O.B. 1. 1.				
M.C7+1971			PCI-922	o for she	. 24.71
IMC1-319	7-29-77	TENNA	of Lic	tass (s)	
TRACE	5 . 19 . 72	-	- Company of the Company		
		111.			ager was some and are some star
W ire	7,7,7				of lie. to my to consum.
				r end Lume	
		Comme.			
(Fig. 1)					i i i i i i i i i i i i i i i i i i i
inci-ii	7.21.2	RENIA	1. 9 <u>1.</u> 1.1	in i	1.4.1.41
8RCT~ 800331K0	7-18-80	RENEWA	OF L	ENSC(S)	A-T-AZ
10002315V	· · · · · · · · · · · · · · · · · · ·	-	discount description of		
6					
				1	
				İ	
The second of the second property and	The second second second second	mental and section and the			

Cart # FORM A-128
FORMERLY FCC FORM 94

APPLICATION REGORD - BROADCASTING

Comm IV D/G

Call

Name (P.	d. Box 701	DROADOASTIAG COMPAST LUIKID. TARREY	Acti	in the state of th
File No.	Dated	Application for	Balure	Date
EPOT-1905 Racd & file	9-30-54 1 10-13-54	CP for a new Come IV t/c station: Freq: Oh # 9- 126-193 Nos.	CONTEARS]]~]?~写
		RRP: Vis. 11 kw Aur. 5.6 kw Hours of operation: Unlimited T-L: 1.4 miles NF of Clawson, Texas S-L: 1.4 miles NF of Clawson, Texas (Lufkin, (Vis & Aur. RCA-TY-2AH) (570') Texas) Filed by Faul Dobin, Atty (Inal-Frogramming with Apac-TV, Houston, Texas)		
BNPOT-2988 lect & file	the second of th	Mod. of CP (BPCP-)305 which mut. a new comm. IV b/c station) to change ERP from Via. 10.7 kw. Aur. 5.37 kw. to Via. 25.1 kw. Aur. 12.5 kw. install new transmitters and antenna system and make other equipment changes.		4-l5
		Change in lescription of transmitter and studio location (not a sove) from 1.4 m NV of Clawson, near Enfrir. Texas to 1.4 miles FV of Clawson, Rest of Highway \$ 59, near Durkin, Texas. (F. A. A. GE-TT-6-7) 654)		

colst. TV B/C

Tokm A-170

APPLICATION RECORD - BROADCASTING

FORMERLY FOR FORM 94

Gal. Laures Mint-Cv

		新发现, 保险 的外部和10年上海。		
_Hecd.&file &&t.# >		a new Comm. TV B/C Sta.) to extend completion		ir - prog.testa
	- W	Feomer's 10. Series, at 7. Koo. of CP (EFC) = 205, se mod., which authorized	DIMISS	D 4+5-57
send. File		date from Meiwit W. Arl-M.		
### \$1#4.376		Mos. of Of (EPRIL 1905, as most, which are oriz a new Owen, TV VIC State extent commentation	eg Hiliabi ku	
		filed by source a factor than the second	itis en en en	the second term to the second that the
evi.		date from A-18-50 to 1-1-50.		
		hold, of brights the parties and reserved a new Compact to the seasons	Masket .	
	and the same and	Filed by Leonard H. Marks, Atty.	ange there lights took	and the same will been willed
Pacd&filed Ext.2	8-29-55	s new Comm. TV B/S Station) to extend comple- tion date from 10-18-55 to 4-1-56.	22.7.7.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2	
BMP(T-3379	8-27-55	Mod. of CP (BPCT-1905, as mod., which authorized	derenten i	7417455
Filo No.	Daved	Application for	Natura Natura	1980 (18
Selfile (Angeline constant of chieff extre	LAILELIN STAR	MANAGEMENT CONTROL OF STREET	\$\display 1.2	n
	FOREST CAPIT Lurkin, Texa	AL EROAUCASTING COMPANY		

Carl # 3 FORM 50 771 AUS 1905

APPLICATION RECORD - BROADCASTING

Cross the B/C

C8 11

Letters ETTA-17

Nume FOREST CAPITAL RECADEASTING COMPANY

File No.		Application for	AGI Nature	Ígh Íste
Biol-Ga Rei & filed	3.027.57	which authorized a new connercial TV h/o station.		AMA TO ANALYSIS OF THE PROPERTY OF THE PROPERT
HNCT-319 Remi&filed	5-11-59 5-14-59	Filed by Leonard H. Marks, Atty. Filed by Leonard H. Marks, Atty.	CEANTED	7-22-59
BECT-319 Recd.AFiled		REMEMAL OF LICENSE		7=24=62
TTC-4057	5-21-62	Voluntary transfer of control of livensee conversion from R. W. Wortham, Jr., et al (All Stockholders) to Forest Carital Communications Corp.	CRUNTED EFF:	41 6
		FCD wishnesten 5 G		

PROADC' SUNGITATION LICENSE RECORD X W A F MAR MANAG Nort C.O. 1-12-56 (Stured 1-15-56) Cord # 1 I WELL THE THE THE PRYMAN TRESS S. 16-57 Cali letters ANDET-TY Date first licensed 8-10-57 (VIIIcal to, 356) (Station Los: Me Spring, Tex.) GRAYSUN EMTERPHISES INCOMPONETED (BALCT-164 10-11-61 277: 11-1-61)
X TELKS TRIEGASTING, INC. (EASET-214 1-23-57 EFF: I NO LETTER TO (E PROJECT POLICY) Name of Recases ARIS SPRING MOADCAST DIG OCTANY 2500 Santucky Way, Big Spring, Saxas Transmitter location * O Fentucky (my, Str Sortar, "*: ** 2500 centucky Way, Mig Spring , Texas Main Studio location *fCC Contucky Yav, 518 Syring, Terms KWAB TV **FIX** 65

ON THE

Matigar Date

GRANTED 7-22-54

Crder Bodret Tt. 1000f

APPLICATION RECORD - BROADCASTING

FORMERLY FOR FORM \$4

lail tatters

Hame BIG SPHING BROADCASTING COMPANY (P.O. 702 Johnson Street, P.O. Box 1632, Big Spring, Texas)

12-8-53

2-23-54

2-25-54

2-25-54

Piled

ANTNOKO

Recd.

Piled

Application for Dated File No. C.P. for a new Comm. TV B/C Station 8-1-53 BPOT-1749 710.1 Ch. 41, 65-72 aca. 8-3-53 Rec 1 d 8-3-53 Filed Hours of Operation: Unlimited 3-L: 600 Kentucky Way, Big Spring, Texas T-L: WO Kentucky Way, Big Spring, Tesses (Vis. & Aur. NCA TT-500A) - (3084) (Filed by Rugene L. Burke, Atty.) Amended to charge Lill from Tit. 1.26 kw, Au-. ANEIDED 12-3-53 0.766 kw to Vis. to dekw, Aur. bottown 12-7-53 Rec'd

ACC WESTINGSON, IL S.

Amended to change ESP TO Vis. 1.33 hw. Aur.

terrain to 3231; & changes to ancerna system

O. 802 ku; antenna beight alove sverkee

Card # 2 FORM A-170

APPLICATION RECORD - BROADCASTING

Comm-TV

Call

Letters EM-TY

formerly fight district, inc. Name 4012 SPRING BROADCASTING CONPANY

A STATE OF THE PARTY OF THE PAR	Capring.	gal de la company de la compan	ACL1	2. 10 miles (10 miles 10 miles
File No.	Dated	Application for	5	
BMPOILED AN Reput & file	2-19-55 d 2-22-55	Mod. of CP (BPCI-1749 which suth. a new comm. TV t/c station) to extend completion date from 2-22-55 to 8-1-55	RAPTED I	4-3-65 t: prox-2952
DM-02-3952 Back & file	age was re and and and	Mod. of CF (SPO7-1740 as mod, which such a new with TV b/c station) to diable EEF from Vis. 1.35 kw. Aur. 0.794 kw. to Vis. 5.18 kw Aur. 2.57 kw. change type of transmitters and make other equipment change. (Vis & Aur. SCA-TT-2AI) (323) Fill by Bugene L. Burke, Atty.	I GERMANIAN I	
NAPOT-150 Neod. APile (ANGLYED) Pect.AFiled	5-01-65 1 6-3-56 6-13-55 6-13-55	Assignment of CP from Pig Spring Broadcastin Company to Pig Spring Television, inc. Piled by Eugene L. Burke, Atty. Claristostion of Exhibit 6 Res stockholders. Filed by Eugene L. Burke, Atty.	222	7-6-55 7-10-39
1		w p − . wysoditestiffs. © S.		

Card # 3

APPLICATION RECORD - IREADCASTING

Comm TT H/C

FORM A 170 FORMERLY FCC FORM 94

Call Lattera XBHT-II

File No.	g Spring, T Dated	Application for	Satura	de le
E:POI-3267 Becd & filt	7-18-55	Mod. of CP (BPCT-1749 as mod. which much a new comm TV b/c sta.) to change 32P from Vis. 5.13 kw. Aur. 2.57 kw to Vis. 12.78 kw Aur. 6.88 kw. install new transmitters and entenna system and make other equipment		End. + 33
50-01-3714 60 A F11ed Ect. 4 8		changes. (Vie & Aur. OB-TT-10-A) (32)) Filed by Sugere L. Surke, Atty. Mod. of CP(EVCT-1749, as mod., which auth. a new Comm. TV B/C Station) to extend completic date from 2-5-56 to 5-5-56. Filed by Engene L. Burke, Atty.		
NAPOT-3879 Reck & file Ext # 4	14-13-56 14-13-68	Modification of construction permit (BPCT- 1749 as audified, which substitutes a new comparcial TV b/o station) to extend comple- tion date from 5-5-55 to 11-5-56 Filed by Bigene L. Burke, Atty.	OBLITED	4-20-86

Larver 🕺 🛦 APPLICATION RECORD - BROADCASTING EXIT-TV (2-27-57) Call ARST-IV And TELAS TELECTOTING, INC. Rose X BIG SPRING TELLVISION, INC. Big Spring, Texas Nature 30 AC Application for Filo No. 1 m 2 m Modification of CP(BFCT-1749, se mod., which 10-19-16 MMPC1-4350 anthorized a new Cons. TV B/C Sta.)to extend (MANTED 10-10-56 hecd &filed 10-24-50 completion date from 11-5-55 to 5-5-57. Lat. # 5 ritety E.L. Links, Atty. 123-37 CRANCED Voluntary assignment of construction permit 12-19-56 BAPCT-214 FF: Service Control from Dig Spring Television, Inc. to Texas 19-27-96 RICO & PLAN Telegasting, Inc. Piled by Eliot C. Loveti, Att?. rod, of Opinici-1769, so med., which authorized **19**11 - 11 - 14 - 14 4-11-17 a new Comma. W 2/C Sta. to extend commiction Macd. faled/ 4-3-87 tate from 5-3-5% to 8-3-57 ixt. #6 Filed by allot 0, Livett, Att.y. r z z . wkaninaron, 6 z

Appl	Quality deleteration (1) Plant	rnavideboare (#56), n	aranger dan e, en,	anni ann an	i deg geleggi va e vezta in e ten Viziganak
	४ व्यवस्थाः हेन्द्र व्यवस्थाः	3	7182		r-r-r
30-07-174	0 7-17-5	100, \$ 4	1.35xx	¥ 1 2	C - 20 - 54
		66-77	7 7 3	K	
I for a	. නුවෙන රීහණය	t av old	Station	3	
		Mars et a	7 6 1 7 .	e sema	9-22-54
	0 4-29-35 2 4-29-55	\$ 22.24	A 3.57 K		9-12-35
I'm had	ST# 05-17	in at the	. The ti	rea of tra	nemiltets, make
star en	dipment on	. and ea	t, sem	stion dat	
	The same was	Nolus 2	TO SEED TO	igne de E	i. Ira
Mar :	And head	1.71	ert on "	a it in	ing Totevision
225 - 7-	A. S. TALL S. C. W.			a salah	and the first place and them been seen
	3-8-4	58.70 7	12.0 hv		and the second s
M 380 C			do de Ka	S inetal	new transmits.
tod. Ci			into ch	4	
COLUMN PROPERTY.	1 1 1 1 1 1 1 1	The same of the same	医维生性 致然 日	は、 まずの製造機器	Carried to the second to the second to
The same of the same of	A M Sand	全点外线 表数	2 6 1 C	K 1962 F 72	ending 2-2-25
agama, ta	nie accord	, CP(BME	01-8267/	*	the sea one say we say the
D(31)33			1,000	4,4384	
		ingi /	X	i e de la companya de la companya de la companya de la companya de la companya de la companya de la companya d	
DEPOT TO	79 4-20-EV		84.35	eace	9-42-54
Mod. of	CP(BPCT-1	1.0	Eding William Co.		
			M.)to e	tend com	1. 41.11-5-56
40000000000000000000000000000000000000	1	leniina i	filme of	1.0.8001	0, 01,11-5-56 ,ext,uulhority
g, , 130 J.	. Kasara	lenging f	pling of r.knd.l)	1.10.450) 45-50.00	1. 44.11-5-56 Lext uncharity Enhance accord.
g, , 130 J.	. Kasara	lenging f	pling of r.knd.l	1.10.450) 45-50.00	rem introduction
. 0.		enlies s Temp.fe	pling of r.And.l 	1,10,450 15-14,504	per ununcelly pulsada accord. G-28-88
	60 (0 –50 –60) GP(3PCV–1)	- N	r.bnd.l	c.Appl 	9-22-54 L. ds. 5-5-57
(C. 10) (C. 10) (C. 10) (C. 10) (C. 10) (C. 10)	60 10-80-0 CP(2PCT-1	enilis Temp. E init W en m	r.Pod.i	ease tend com	9-83-84 L. 44. 8-6-57
(C. 10) (C. 10) (C. 10) (C. 10) (C. 10) (C. 10)	60 10-80-0 CP(2PCT-1	enilis Temp. E init W en m	r.Pod.i	ease tend com	9-22-54 L. ds. 5-5-57
	A I THE	ending Temp.fo inter end.l	#5-10 Cor	9-22-54 1. 45. 5-6-57	
	A I THE	ending Temp.fo inter end.l	#5-10 Cor	9-22-54 1. 45. 5-6-57	
	t Name of the control	enting / Ismp.fs 4	r. And . 1	ease tend comp	Granale
	t Name of the control	enting / Ismp.fs 4	r. And . 1	ease tend comp	GP from 812

CONTRICTORY PERSON AND LICENSE RECORD

					\$ The state of the
s emis en i	7			00 RW 5	9 x 4 1241
	- 100 c			- 1	
		1	. ellation	1 3 2 4 4	2.04-98 × 2.14-48.3
WIR	C - 2 - 57	PED IN		and the second	
	PH. COM.	A CICAS			to Australia to the work
HIE!		ERT IN	.or. X	* 91, 48,015	a Cress.
	44 (474) POPER	A			
الله المنظم المنظم المنظم المنظم المنظم المنظم المنظم المنظم المنظم المنظم المنظم المنظم المنظم المنظم المنظم		PROPAR	75		
				19	8-30-57
BLCT-679	8m 313m 57	CII #4	v-14.7 A-6.92 1		3-1-59
AH 380'		\$ 0 ≈ ≠% √ 5.75 × × × × ×	And The A		
10000 F	o~664#1~#1	18. 7.29	6 74 83	A.T. F. Mark . #	7_87/16 Jos. 9-1-20/ 8-1-22
HHCT-366	7-15-59	自私产的	A 100 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		15 m 2 m 3 h 3 c m 7 m 3 m
		MAN KINAL	or Du		the contract of the contract of
BA		. Volumb	MT ASSI	Casar F	
		. I was H	istro.		1.1.52
The state of the s	and the second		V-12.		1-1-62
	7-24-62	6672	1.6.9	V	8-1-65
4.1			Marine Marine		
The state of the same and the same are to	OF LICENS		gan nga sani ika nga hali dabi sa		hima in the first section of the second
17 L-2 176	3.25.66	io iznta:	A IIUUS	i get ind: Ing an en	kroldflicesse he, svins he, sv. tille
					m. Tr. 21118
faild. U	rev 50.4.	(C) 81 L		*	to fettre ent
Karo, and	les inti		NESSTER FOR		
Program !	12: TEVAL	1			
ESPECIT - JOSE	******	()); ≱ ()			8-1-68
AH: WO!	HEARWAL	66-72	A-1) + 1		
					A per la record de part de la record de la record de la record
	 6 1	1411 8	arae	25年126年	
			A		The second of th
Policii.	le. 14 m	Mar ila	1 FI _		in the second second
5386T-366	7-31-68	(1, RE)	Çwal Ci	LIUENSE	- B-I-71
and the same to the same		er en en en	* **		and the second s
	3.19.71	War and a second	a second to the	encesses (n)	
BW21-96	6 11 -6- 7	. Alima	t or ric	AND LA	8-1-74
			O GROW WATER WATER		
12 14 17 18 18 18 18 18 18 18 18 18 18 18 18 18 1	***		108 - 107 - 108 -	****	
d Bact. a	.b 3-27*i	NO RENE	JAL VF	LICENSE	<u>[\$]_8=1=87</u> .
BALCT	4-21-80	VOL. A	371(W).	NI M L	IKCNSE 10
790709	PERMIAN	BASIN	ELLENI!	MON COR	POPATION.
_ K 6					

1/200016

F-C.C. FORM NO. 351-b February 1954

UNITED STATES OF AMERICA FEDERAL COMMUNICATIONS COMMISSION

TELEVISION BROADCAST STATION CONSTRUCTION PERMIT

Subject to the provisions of the Communications Act of 1934, subsequent Acts, and Treaties, and Commission Rules made thereunder, and further subject to conditions set forth in this permit, 1/authority is hereby granted to

	BIG SPRING TELEVISION, INC.
о сс	pastruct a television broadcast station located and described as follows.
1.	Station location: State Taken Of the Park State
2.	Transmitteer rocation: State resident County Manager
	CI CA OI IOAN
	The state of the s
	Minutes is seconds to
	nedo hongroude: Degrees 1312 Minutes 36 cacondo 11
3.	HGILL DUGIO 1 (CSI.IO) - CEGEA TOMBER
	Crea of loan Bell South
4.	Transmitter: Yisual Aural
	Transmitter: Yisual Aural Make and type GR TT-10A GR TT-10A
	Rated power 6.99 dbk(5 kw) peak. 4.31 dbk(2.7 kw).
5.	Antenna:
	Hake and Type GE TY-60-C, 3 section Batwing
	. The second contract $\dot{\epsilon}$
	Norizontal field pattern: Smildirectional
	Antenna supporting structure 457 foot tower
	Overall height above ground 497 feet.
	Obstruction marking specifications in accordance with more companies to .

6.	Operating assignment:
	Frequency 65 72 Megacycles. (Channel No.
	Vienal
	Carrier frequency 67.24 Mc. 71.71
	Ellective radiated power_基基dbk(12.9 kw) peak. 然点 dbk(4.00 kw)
	rransmitter output power 7 dbk(5 kw) peak. 4.3 dbk(2 7 kw)
	Antenna height above average terrain 1990 feet.
	Hours of operation - unlimited.
7.	Date of required commencement of construction September 22, 1954
8.	Date of required completion of construction Follows 5, 1956
8.	Equipment and program tests shall be conducted only pursuant to Sections
	3.628 and 3.629 of the Commission Rules.
10.	This permit shall be automatically forfeited if the station is not ready
	for operation within the time specified or within such further time as the
	Commission may allow unless completion of the station is prevented by causes
	not under the control of the permittee. See Section 1.314 of the Com-
	Subject to the attached condition FCC Form No. 720.
1/	This construction permit consists of this page and pages 2
	Dated this Sth day of August 19 55.
12	FEDERAL COMMUNICATIONS COMMISSION

ot

·C·C· Washington, D. 1

Mary Jan Morris

OBSTRUCTION MARKING (CAL) LOT LOTTE: MIST-TV ANTENNA TOWER(S) OR SUPPORTING STRUCTURE(S)

It is to be expressly understood that the issuance of these specifications is in no way to be considered as precluding additional or modified marking or lighting as may hereafter be required under the provisions of Section 303(q) of the Communications Act of 1934, as amended.

- Antenna structures shall be painted throughout their height with alternate bands of aviation surface orange and white, terminating with aviation surface orange bands at both top and bottom. The width of the bands shall be approxumately non-seventh the height of the structure, provided however, that the bands shall not be more than 40 feet nor less than 1-1/2 feet in width. All towers shall be cleaned or repainted as often as necessary to maintain good visibility.
- There shall be installed at the top of the tower at least two 100- or 111-watt lamps (#100 A21/TS or #111 A21/TS, respectively) enclosed in aviation red obstruction light globes. The two lights shall burn simultaneously from sonset to sunrise and shall be positioned so as to insure unobstructed visibility of at least one of the lights from aircraft at any angle of approach. A light sensitive control device or an astronomic dial clock and time switch may be used to control the obstruction lighting in lieu of manual control. When a light sensitive device is used it should be adjusted so that the lights will be turned on at a north sky light intensity level of about thirty-five foot candles and turned off at a north sky light intensity level of about fifty-oight foot candles.
- 3 There shall be installed at the top of the structure one 300 m/m electric code bencon equipped with two 500 or 620-wat lamps (PS-40, Code Boacon type), both lamps to burn simultaneously, and equipped with action rod color filters. Where a rod or other construction of not more than 20 feet in height and incorpable of supporting this boacon is mounted on top of the structure and it is determined that this additional construction does not permit unobstructed visibility of the code beacon from aircraft at any angle of approach, there shall be installed two such beacons positioned so as to insure unobstructed visibility of a least one of the boacons from aircraft at any angle of approach. The beacons shall be equipped with a Hashing mechanism period of darkness equal to one-half of the luminous portod.
- 4 Atapproximately one-half of the overall height of the tower one smaller flashing 300 w/m electric code heaven shall be installed in such position within the tower proper that the structural members will not impair the visibility of this beacon from aircraft at any angle of approach. In the event this beacon cannot be installed in a manner to insure anobstructed visibility of it from aircraft at any angle of approach, there shall be installed two such beacons. Each beacon shall be meanaded on the outside of diagonally opposite corners or opposite sides of the tower at the prescribed height.
- 5 At approximately two-fifths of the over-all height of the tower one similar flashing 300m/m electric code beacon shall be installed in such position within the tower proper that the structural members will not impair the visibility of this beacon from aircraft at any angle of approach. In the event this beacon cannot be installed in a manner to insure unobstructed visibility of it from aircraft at any angle of approach, there shall be installed two such beacons. Each beacon shall be mounted on the cutside of diagonally opposite corners or opposite sides of the tower at the prescribed height.
- 6 On lovels at approximately two thirds and one third of the over-all height of the tower one similar flashing 300 m/m electric code boacen shall be installed in such position within the tower proper that the structural members will not impair the visibility of this beacon from sicrorf, at any angle of approach. In the event these boacens cannot be installed in a manner to insure unobstructed visibility of it from aircraft at any angle of approach, there shall be installed two much beacons. Each boacen shall

- be mounted on the outside of diagonally opposite corners or opposite sides of the tower at the prescribed height.
- 7 On levels at approximately four-sevenths and two-sevenths of the overalt height of the tower one similar flashing 300 m/m electric code beacen shall be installed in such position within the tower proper that the structural members will not impair the visibility of this boncon from aircraft at any angle of approach. In the event these boncons cannot be installed to a mannar to insure unobstructed visibility of the boncons from aircraft at any angle of approach, there shall be installed two such beacons, at each level. Each beacen shall be mounted on the cutside of diagonally upposite corners or opposite sides of the tower at the prescribed height.
- 8. On levels at approximately three-fourths, one-half and one-fourth of the over-all height of the tower one similar flashing 300 m/m electric code beacon shall be installed in such position within the tower proper that the structural members will not impair the vinibility of this beacon from aircraft at any angle of approach. In the event these beacons cannot be installed in a mannor to insure unobstructed visibility of the beacons from aircraft at any angle of approach, there shall be installed two such beacons, at each level. Each beacon shall be mounted on the outside of diagonally opposite corners or opposite sides of the tower at the prescribed height.
- 9. On levels at approximately two-thirds, four-ninchs and two-ninths of the overall height of the tower one similar flashing 500 m/m electric code beacon shall be installed in such position within the tower proper that the structural members will not impart the visibility of this beacon from aircraft at any angle of approach. In the event these beacons cannot be installed in a manner to insure unobstructed visibility of the beacons from aircraft at any angle of approach, there shall be installed two such beacons at each level. Ench beacon shall be mounted on the outside of diagonally opposite corners or opposite sides of the tower at the prescribed height.
- 10. On levels at approximately four-fifths, three-fifths, two-fifths, and one-fifth of the over-all height of the tower one similar flashing 300 m/m electric code beacon shall be installed in such position within the tower proper that the structural members will not impair the visibility of this beacon from aircraft at any nugle of approach. In the event those heacons cannot be installed in a manner to insure unobstructed visibility of the beacons from aircraft at any angle of approach, there shall be installed two such beacons at each level. Each beacon shall be mounted on the outside of diagonally opposite cerners or opposite sides of the tower at the prescribed heights.
- 11. At the approximate mid point of the over-all height of the tower there shall be installed at least two 100- or 111-watt Imps (#100 A21/78 or #111 A21/78, respectively) enclosed in a vintion red obstruction light globes. Each light shall be mounted so as to insure unobstructed visibility of at least one light at each level from aircraft at any angle of approach.
- 12. On levels at approximately two-thirds and one-third of the over-all height of the tower, there shall be installed at least two 100-or 111-wall lamps (#100 A31/TS or #111 A21/TS, respectively) enclosed in aviation red obstruction light globes. Each light shall be mounted so as to insure unobstructed visibility of at least one light at each level from aircraft at any angle of approach.
- 13. On levels at approximately three-fourths and one-fourth of the ever-all height of the tower, at least one 100- or 111-watt lamp

- (#100 A21/TS or #1.11 A21/TS, respectively) enclosed in an aviation red obstruction light globe shall be installed on each outside corner of the tower at each level.
- 14. On levels at approximately four-fifths, three-fifths and one-fifth of the over-all height of the over-all lang (#100 A21/TS or #111 A21/TS, respectively) enclosed in an aviation red obstruction light globe shall be instalred on each outside comer of the tower at each level.
- 15. On levels at approximately five-sixths, one-half, and one-sixth of the over-alf heightef the tower, at least one 100- or 111-watt lamp (#100 A21/18 or #111 A21/18, respectively) enclosed in an aviation red obstruction light globe shall be installed on each outside corner of the tower at each level.
- 16. On lovels at approximately sixsevenths, five-sevenths, three-sevenths and oneseventh of the over-all height of the tower at
 least one 100- or 111-watt lamp (# 100 A21/TS
 or # 111 A21/TS, respectively) enclosed in an
 aviation red obstruction light globe shall be
 installed on each outside corner of the structure.
- 17. (In levels at approximately seveneighths, five-eighths, three-eighths, and oneeighth of the over-all height of the tower, at
 least one 100- or 111-watt lamp #100 A21/TS
 or #111 A21/TS, respectively) onclosed in an
 aviation red obstruction light globe shall be
 installed an each outside comer of the structury.
- 18. On levels at approximately eightniaths, seven-tinths, five-nieths, one-third and one-ninth of the over-all height of the tower, at least one 100- or 111-watt lamp (# 100 A21/TS or # 111 A21/TS, respectively) enclosed in an aviation red obstruction light globs shall be installed on each outside corner of the tower at each level.
- 19. On levels at approximately sinctenths, seven-teaths, can-half, three-teaths, and one-tenth of the over-all height of the tower, at least one 100- or 111-watt lamp (# 100 A2L/TS or # 111 A2L/TS, respectively) enclosed in an aviation roll obstruction light globe shall be installed on each outside corner of the tower at each level.
- 20. All lighting shall be exhibited from sunset to surrise unless otherwise specified.
- 21. All lights shall been continuously or shall be controlled by a light sensitive device adjusted so that the lights will be turned on at a north-sky light intensity level of about 35 foot candles and turned off at a north-sky light intensity level of about 58 foot candles.
- During construction of an antenna structure, for which obstruction lighting is required, at least two 100 - or 111-watt lamps (#100 A21/TS or # 111 A21/TS, respectively) enclosed in aviation red obstruction light globes, shall be installed at the appearant point of the structure. In addition, as the height of the structure exceeds each level at which permanent obstruction lights will be required, two similar lights shall be installed at each such level. These temperary warning lights shall be displayed nightly from sunset to sunrise until the permanent obstruction lights have been installed and placed in operation, and shall be positioned so as to insure unobstructed visibility of at loast one of the lights at any angle of approach. In lieu of the above temporary warning lights, the permanent obstruction lighting fixtures may be installed and operated at each required level as each such level is exceeded in height during consuch level is exceeded in height during consuch level is exceeded. struction

FCC Form 720 April 1955

CRITICAL OBSTRUCTION

The construction of the antenna structure is subject to the following conditions:

- 1. The height of the uppermost point of the antenna structure, including the required obstruction lighting and any other attachments, shall not exceed 2500 feet above mean sea level.
- 2a. A bench mark shall be established on the tower base. The elevation above mean sea level of the bench mark shall be determined within one foot from a line of spirit levels from a Municipal, State, or Federal bench mark that is a part of the national level net.
- b. The horizontal position of the tower site shall be determined within 1/2 second of latitude and longitude by a ground survey tied to a Municipal, State, or Federal control point that has previously been connected to the national geodetic network.
- c. An affidavit signed by a registered or qualified engineer or surveyor shall be submitted with the license application setting forth the geographic coordinates of the structure and the over-all height (which shall include the obstruction marking) above sea level of the completed structure, and describing the survey and the reference points upon which it is based, together with a plat of the antenna site and vertical plan sketch of the antenna structure portraying pertinent details.

THIS FORM IS A PART OF AND SHALL BE ATTACHED TO THE CURRENT INSTRUMENT OF AUTHORIZATION

FEDERAL COMMUNICATIONS COMMISSION

WASHINGTON SE. D. C.

Sept. 8, 1955

SECURIO DEL COMESIMICATIONE

8843

Direccion General de Telecomunicaciones Secretaria de Comunicaciones y Obras Publicas Mexico, D. F.

Gentlemen:

Sta	In accordance with the Agreement entered into by the Governments of ates of America and the United States of Mexico for the assignment of televitice is herewith given of the frank	the United ision channels
I,	Construct a new television broadcast station () Modify an existing television broadcast station (*) Other	:
2.	Applicant Bic Spring TV, Inc.	
	City State Texas	**************************************
3.	File No. and/or call letters xBST-TV mpcr- 3267	
4.	Proposed transmitter location:	
	Latitude 72° 15' 16 " N. Longitude 101° 26' 14 " W.	
5.	Channel Number 14	
6. "	deo Carrier Mc.	
7.	Effective radiated power (visual) kw.	
8.	Antenna:	
- •	Overall height above ground	497 feet
	Overall height above mean sea level	2957 feet +6
	Antenna height above average terrain (2-10 miles)	350 feet
	Horizontal directivity pattern:	The state of the s
	(1) Omnidirectional (*) (2) Other	

Very truly yours, Man Jane Marris

Mary Jane Morris

AUGUST 8, 1955

DIG SPRING TELEVISION, INC. HADIO STATION MEST-TV BIG SPRING, TEXAS

COMMISSION GRANTED KEST-TV BRECT-3267 EFFECTIVE RADIATED

POWER VISUAL 12.9 KILOMATTS AURAL 6.92 KILOWATTS ANTENNA

HEIGHT ABOVE AVERAGE TERRAIN 380 FEET, GRITICAL HEIGHT

CONDITION REQUIRING SURVEY OF TOWER LOCATION AND HEIGHT NOT

TO EXCEED 2960 FEET ABOVE MEAN SEA LEVEL, EXPINING FEBRUARY 5, 1956

MARY JAME MORRIS, SECRETARY
FEDERAL COMMUNICATIONS COMMISSION

Appr. Broadcast Bureau 8-8-55 NVB:ob/lic.B 12 pm

cc: Files
Miss Tehl
Mr. Nelson
E L Burke, Atty.
Engr. Dist. # 10

DAY LETTER COLLECT



RADIO ENGINEERING CONSULTANTS

人Bハブーフレ

BMPCT-3267

BROADCAST FACILITIES
DIVISION (TV)

JUL 20 1955

BROADCAST BUREAU

TV ENGINEERING APPENDIX V

Application for Modification of Construction Permit Gh. 4, ERP 12.75 KW (11.06 dbk) © 380° Big Spring, Texas (BPCT-2952, as granted)

Big Spring Television, Inc.
July 1955







TABLE OF CONTENTS

Section V-C of FCC Form 301

Section V-G of FCC Form 301

Engineering Statement

Map showing 74 dbu, Grade A and

Grade B contours.

Instrument Approach Chart

Vertical Plan Sketch

July 15, 1955

Exhibit No. E-1

Exhibit No. E-2

Exhibit No. E-3

Exhibit No. E-4



- 1x 11 0 xx X	<u> </u>	SBY	27)	<i>y</i> \ \	500	CATIONS COMMISSION	,۸,	3ms		64
Broadcast Application				FEDERAL COM	MUNI	CATIONS COMMISSION			Se	ction
TELEVISION BRO ENGINEERING				or arbbrream	L	levision, Inc.	j	·		
1. Purpose of authorizat	ion appl	ied for:	(Ind:	icate by check	k mar	k)				
enswer all paragraph	racter w s, other	hich will wise comp	l chang plete o	ge coverage of only paragrapi	rinc hs 2	s numbered B through I rease the overall heig and 7 and the appropri hs; for change J, comp	tht of the ar	iterna sti Iragranhs	ructure more th	an 20
A. Construct a new sta B. X Change effective ra		xower or				F. Construct or G. X Change trans		liary an	tenna system	
anterma height abov C. Change transmitter		*	ก			H. ☐ Install auxi main transmi	liary or alt	ernate		
D. Change frequency E. X Change antenna syst	~					1. Other change J. Change studi				
2 Facilities requested	ean									
Frequency	***********	1	-,,-	·····		7. (a) Antenna stru				
66 72	2 	Charmel	l No.	4		Is the proposed constructionity of any other ra	dio station or antenna be su	will the ported by		
Effective Radiated Power (visual)	I .	ive Radia	- 1	ntenna height	L	engineering data showi				сощ
In dbk: 11.06	Power In dbk:	(aurai) :8.382		bove average terrain		Will proposed structure top of a building? If "	Yea'', state h	eight	Yee	No [
In law: 12.75	In kw;	6.88		380 f	'ee t	of building (distance fr				
3. Station location (prin State						Overall height in feet a (Do not include the hei			neight in feet abo t. (Do not includ	
Texas	1	City or to Dia C		• •		obstruction lighting wh		1	any obstruction	
4. Transmitter location		Big S	hrri	<u>rg</u>	m 	required.)		which me	y be required.)	
State	C	ounty		~~~		4971			2957 -	4
Texas		Howar	ď			Height of antenna ra	distion cent	er .		
City or town			ress (o:	r other ident	if'i-	in feet above mean s	ea level.		2937 '	ſ
Big Spring	1	ition) 600 K	entu	icky Way		Geographical coordin North latitude		West long	gitude C	•
5. Main studio location		***************************************	~ _ \			32 15	16		01 26 4	7
State Texas	į.	unty Howar	d			How were coordinates determined?	No char		ready on :	fil
City or town		reet addr			-	Indicate by check man zone in which structu	rk the	1		3
Big Spring		600 K	entu	entucky Way		located. (b) Antenna data				
6. Transmitters Visual						Visual Make			Type No.	
Make	Тур	e No.	Rated	power						
GE	TT	-10-1	In dok	¢6•99	Ī	GE	·		TY-60-C	
Aural						Number of sections	Rated impu		Power gain in	ı qp
nake GE	- 1		Rated In dbk	:: L - 31		3	16.95		4.62	
I the above transmitters are co					not	Aural (1f separate) Make		·	Type No.	
seen filed with the F.C.C., atta showing of transmitter details:	in accord	ance with	the Co		ï	Same as	for vi	sual	* 100	
The showing should include so perating constants of the last rol, vestigial sideband filter (i etworks. If changes are to be	radio sta [used], : made in	ges, full o multiplex a licensed	details network d transi	of frequency c ks and isolatio	on- n	Number of sections	Rated inpu		Power gain in	ďЪ
chematic diagram and give ful						If directional antenn	a is nomeo	d pive f	Illi datati - I-	1,,,,,,
a) Describe in Exhibit No. E- ining and maintaining power o pecified in this application.						horizontal and vertice Not applica	al plane rad	iation pa		I TITING Y
) Multiplexer: Make	GE			Type No. 16-	D					
Rated imput power 16.	99 dibk				- 1	Will antenna be altere			~	No
Rated loss: Visual 200	6_ab	Aural _	.008	<u> </u>		If yes, describe fully	y in Exhibit	No.		

	***	······································		TEL	EVISION BROADC	AST ENGINEERING DA	ጥሰ			0.		
8. Transmission	n line propo	sed to	supply po	wer to	the anterma fro	om the transmitter	1121			Ϋ́	ection V—C, Page	
(a) Visual						(b) Aural (if	separate)					
Make		Type	No.	Rated	imput power	Make		Tyre	No.	Rat	ed imput power	
Communica Products	tion	101-	-506	in dt	16.8	Same	as fo	-			dbk	
Size (nomina)		Lengt	h in feet	Power	loss in db	Size (nomina	l inside	Lene	th in feet	Dow	er loss in db for	
transverse di in inches	, .				his length	transverse d	tmension)] - [s length	
3 - 1/8		5.	10'	•	54 db							
9 Proposed oper (a) Visual	ation	· * * * * * *	~									
		T			***************************************	(b) Aural			·			
(after vestig	Transmitter power output Multiplexer (after vestigial side-band filter, if used) in db:			1"	mput to trans- ission line in dbk:	Transmitter output	Transmitter power output		Multiplexer loss in db:		Imput to trans- mission line in	
In dbk: 6.9	99					In dbk: 4.3	1				ďbk:	
In kw: 5.0)	_	•006		6.984	In kw: 2.7			•008		4.302	
Transmission line power loss in db:	Antenna inp power in db		Antenna po gain in db		Effective radi- ated power	Transmission line power loss in db:	Antenna i nower in		Antenna po gain in db		Effective radi- ated power	
- •54	6.444		4.62	•	In dbk11.06	F		4.62		In dbk:8.382		
	<u> </u>				In kw: ±c • ()						In kw; 6.88	
10. Vodulation mo			***************************************		****	14. (a) Attach a			a	man (:	s) (topographic	
(a) Visual monit	ter or monito	ring	equinment	T	mer til A	for the area wi	e, such as Unio 15 mi	les o	i Geologica f the propo	l Su sed	rvey quadrangles)	
GE					No. TV-54A 4-8C	cation and show	drawn the	reon	the follows	വര ദ	ata.	
(b) Aural monito				/ 13	(IO-C	On file -	no cha usmitter l	nge ocati	ın sit on—accurat	elv i	nlotted:	
Make			·	T		2. Transmitter	location a	ид ся	ll letters	of a)	ll known	
GE				Type T	No. 1-12-A	radio statio	ns (except	nnat	eur) and the	e loc	cation of .	
11. Frequency mon	iltore					known commercial and government receiving stations within 2 miles of the proposed transmitter location; 3. Character of the area within 2 miles of proposed trans-						
(a) Visual monit			~-~-	*		3. Character of	the area	withdi	n 2 miles o	forc	mosed trans-	
Make	~	'Evr	ne No.	Accu	racy	mitter locati business, in	ion, suita Bustrial.	and m	esignated a: ural nature:	s to	residential,	
GE		1	-12-A	1	file	4. At least eight radials each extending to a distance of						
(b) Aural monito	r	1.2.40		L	11446	ten or more miles from the proposed transmitter locat one or more of which must extend through the principal						
Make	············	Tyr	ж No.	Accui	racy	city to be se			com minut	gri en	a. nerucibar	
GE		TM	-12-A	Or	file	•						
12. If the above i	monitors or	monito	ring equip	mexit, Ì	nave not been	On file -	- no cl	nang	e in s	ite	•	
approved by the l	F.C.C., incl	ude as	Fxhibit N	0.	a brief	(b) Attach n	s Exhibit	No.	pr	ofile	e graphs with	
technical descri	otion of eac	n Da	ta on :	${ t file}$	•	reasonably large Each graph shall	scales for	edj re	radials in	(a)	(5) above.	
i3. Will the stud,		•				ation center. 1	dentify es	ich gr	aph by its	bear:	ing from the	
and other equipme	•			Ye	s by No	proposed transmi	tter locat	ion.	Direction	of ti	rue north	
mission of progra rliance with the	***					shall be zero az Show source of t	imuen, wit onogranhie	iiang alda	les measure ta on each.	d ela	ockwise.	
5. From the profi	ile graphs i	14 (b), for the	eight	mile distance l	oetween two and ten	miles from	n the	proposed to	สกราช	itter location,	
an in wecolution		rocedu e elevat			the Commission feer of amenna	's Rules, sumply the				iata;	n	
Radial · bearing (degree reue)	of radia	l (2-10 m shove me level	ni.)	radiatio average	n center above Elevation of (2-10 mi.)	power in tadial direction	distan to the	edicted ice ia n Grade ntour	illes		Predicted tance in miles the Grade B (147	
<u>0</u> 0	261	.51	feet	32	2 feet	11.06 dbk	13.	.6	mi.		38.0 dbu)	
45	252	O		41	.7	11.06	15.	4		Ī	11.3	
90	235	9		57	8	11.06	18.	0		Į	16.5	
135	258	1		35	6	11.06	14.	4			38.4	
180	277	5		16	2	11.06	9.	8		2	28.5	
225	256	8	·	36	9	11.06	14.	8	,)	0.0	
270	247	2		16	5	11.06	16.	1,		}	13-2	
315	256	1		37	3	11.06	311-	8)	10.0	
(*)			****								er. W.Mr.	
	255	7	•••••	,								
Average adial over principa			not include	d aho	to the day of	uda to warner						
ntenna height abov			502			be identical with F		A)				

Big Spring Television, Inc.

0 -1	-8 rowormanous rittes		
Broadcast Application TELEVISION BR	OADCAST ENGINEERING DATA	Section	n V-C. Page
 16. Attach as Exhibit No. E-2 map(s) (Sectional Aeronal charts where obtainable, preferably without aeronautical lay) of the area proposed to be served and shown drawn the (a) Proposed transmitter location and the radials along which the profile graphs have been prepared; (b) The studio location and boundaries of the principal community; (c) The predicted Grade A and Grade B contours from 12 	over- photographs taken in clear weal and angles to show the nature the vicinity of the proposed t graphs must be marked so as to graphs taken in eight differen position on the ground will be aerial photographs if the area	ber of meric e altitudes terrain in The photo- ctions, Phot an elevated	
above:	And And And And And And And And And And		
(d) The required minimum field strength contour;	No change in site -	Photos on f	ile.
(e) Scale of miles.			
18. Will the minimum required value of field strength predi- be provided over the entire principal community proposed t	dcted in accordance with the method presc to be served?	ribed in the Commi	ssion's Rule
10 M13 Ab		Yes 😱	No
19. Will the main studio be located within the limits of the community proposed to be served. (No charge of the community proposed to be served.	ange proposed)	Yes 🗶	No 🗀
20. (a) Does the proposed transmitter location comply with the Commission's Rules? (Note: Site all	the minimum separation requirements of		
(b) If any co-channel separations are proposed that are or if other channel separations are proposed that a	ready approved by FCC)	Yes 🐷	No 🔲
or if other channel separations are proposed that a such separations below. (Include existing stations the location and geographical coordinates of each a to each from the proposed transmitter location; and state.	, proposed stations and cities which appe	rations plus 10 mil ear in the table of	es, list 'assignments
Not pertinent - this is separations already app	s an existing CP - site proved.		
			-
·			
			,
1. If this is an application for modification of constructi			
construction and indicate when it is expected that construct	ction will be completed.	the preser	nt status of
See applications File No and BAPCT-156. Construc 180 days after grant of	os. BMPCT-2920, BMPCT-2952 ction can be completed wit this application.	hin	
	•		
•			
•			
I certify that I am the Technical Disease, Chlof Engineer cation is submitted and that I have examined the foregoing of my knowledge and belief. (This signature may be omitte which the information contained herein has been obtained in	g statement of technical information and ed provided the engineer's original signe	tint it is true to of the dat	the best ta from
Date July 15, 1955	Edward!	Korens	
	Howard District English	Consulting Sigin	rees

Broadcast Applicat	ion	F	EDERAL COMMUNI	CATIONS	COMMIS	SION	···			
			Name of applic		COLPITA	910W		Sect	ion V-3 Amtera	
	ND SITE INFORMA	TION	Big Spri	ing Television, Inc.						
(se	e instruction B Section I)		Address where c/o Radi	applicant	çan be	ceached in be	erson		•	
			ויימה קום	ng. Ti	aya e					
Jince this Section is navigation, it is nece Legal Coursel	submitted to the Regi- ssary that all the day	onal Almopace Jul ta called for be				an for thearen Claim must not	e in conne	online with oten	rantions to sim	
Legal Counsel Eugene L. B				Ригров	of appli	cation (Check	aporopria	ate box)		
Address				a. Ne	v antenna	construction		T		
Bowen Build:	ing, Washin	gton, D.	C.	b. Al	teration o	of existing an	tenna str.	ctures 🛄		
Consulting Enginee	er				nge in lo	cation urrounding ter	crain			
Commercial 1	Radio Equip	ment Com	pany	List at	iy natural water tan	formations or	cexisting	l in the moini	octures (hills, ion of the appli-	
Internations	al Bldg W	ashingto	a. D. C.	CATIL, 1	ощи тем	to shield the tical hezard o	entenna:	from airrowft	and thereby mini	
Class of station	Facili	ties requested	1	1				~18 K.		
Commercial ?		, ERP 12	75 KW @ 3	go,		None				
1. Location of ant State	County	[0].	-	1						
	1	City or To		1						
Texas	Howard	Big S								
Exact antenna locat give distance and d	ion (street addre irection from, an	ss) (If outside name of near	de city limits, rest town)	the nat	ural for				otted the exact ive location of ade structures	
600 Kentuc	kv Wav			TIDEOU	adove.					
	2.J 11.WJ			The chart used shall be an Instrument Approach (hart (or the landing chart on reverse side thereof), or a Sectional Aeronautical Chart, choice depending upon proximity of the antenna site to						
Geographic coordina	tes (to be determi	ined to nearys	st. second.	マパガハイバギ	arcas.	II Pener	mal the	Sectional Ass	manustran 1 Manuary	
For directional ant	enna give coordina	ites of center	of array.)	TYCH G	TOTAL LINE	SUNSELUT WITHOUT	An Inctr	iment amaraa	than 10 miles than is un-	
For single vertical North latitude				Coast a	nd Geodei	inese chart tic Survey 3	s may be Schinete	purchased fr	on the J. S.	
	West	t longitude	,	1/ Exce	otion - :	there the pro	mosed and	terma sito ic	within the	
32 ° 15 ' 1	6 10	1 ° 26	44						t Approach Char showing antenn	
3. Designation, dis	stance, and bearing shed airway within	g to center I	ine of	- 0x 00x 10	(10) a	IN CYTECUTE AN	rene st	ructures liste	d above.	
		*				miles, S			***	
 List all landing area from the ar 	itenna site. Landing Area	miles of ante	ma site. Give	distance			nearest	houndary of e	each landing	
(a) Webb AFB	taintak uca		1	25 mi	listance		2	<u> </u>		
(b) Hamilton		~ · · · · · · · · · · · · · · · · · · ·		ر بسر د mil	⊬⊆9'''-''					
(c)				ا بيقر ڪيلئ <i>ا</i> ۾ارپ	2.6		ال ري	Jo II. Irue	L	
5. Description of				nd orient	ation of	towns:				
Single	457' guyed	steel t	ower suppo	rting	TV ar	itenna.				
man OP M	- mr (n a	FIFTY 193		· · · · · · · · · · · · · · · · · · ·						
Type GE Ty Description of towe	me TY-60-C	TV Tran	smitting a	ntenna	3					
Self-supporting		Ta4				r			·	
Tower (height figur	no es should not incl	Ouyed	yes		r	Tubula	r (Fole)	no		
obstruction		tude	#1	#2	#3	,	≠4 .	# 5	#€	
Reight of radiating			40:							
Overall height above			<u> 197'</u>	····	<u></u>					
Overall height above			957'		L	<u>.</u>		<u></u>	1	
If a combination of mit as Exhibit No.	a horizontal	olan for the p	roposed antenna	system. a	civing be	ights of the	either ex elements	disting or pro above ground	oposed; sub-	
their orientation a	an sbacne urse	et. Clearly i	malcate 11 any 1	owers are	e existin	K Not :	annlio	•ahla		
Submit as Exhibit No heights above ground	in feet for all	l plan sketch significant f	for the proposed eatures. Clear	total st v indicat	aructure .e existi	(including a ng portions.	upvorting noting n	puilding if	any) giving	
Is the proposed anto	enna system desigr	ed so that ob	struction lights	may be		2,		ו אונו נסיי ו	101111101	
installed and mainte	ained at the upper	most point(s)	?					Yes x	. 'p 🗀	
 Is the proposed : adjoining the tr 	site the same or i ranamitter—antenna	mmediately site of othe	r			f7 =	- 7 -	זטנל		
stations authoriz	ted by the Commiss	ion or speci-		Vec I			r 15,			
fied in another a If the answer is "Yes"	opplication pendin ' pive	g before the	(Immission?	Yes [And RAO!	PHENT CO.	
all	, 0	File				By Elec	C. Dec. Sand	O Ja	rend	
etters		nimbers			1	Edwah'ti"F	ገ ጥሰች	四門であり、そうロ・	ing talk	

)

RADIO ENGINEERING CONSULTANTS

EXHIBIT NO. E-1

Application for
Modification of Construction Permit
New Commercial TV Broadcasting Station
Channel 4, ERP 12.75 KW (11.06 dbk) at 380
Big Spring, Texas
Big Spring Television, Inc.

ENGINEERING STATEMENT

Commercial Radio Equipment Company has been retained by Big Spring Television, Inc., permittee of TV Station KBST-TV, to prepare the necessary engineering data to accompany their application for medification of construction permit to change effective radiated power, type transmitter, increase antenna height, and other equipment changes. This report contains Sections V-C and V-G of FCC Form 301 and the data and exhibits required by these sections.

The applicant, by this application for modification of the KBST-TV construction parmit, requests a change from a 2 KW transmitter to a 5 KW transmitter, and an increase of 57 feet in overall antenna height above ground. The result of these changes will be an operation on Channel 4 with an Effective Radiated Power of 12.75 kilowatts at an antenna height of 380 feet above average terrain.

Exhibit No. E-2 of this report shows the limits of Grade A, Grade B, and the required minimum field strength contour (74 dbu) coverage which will be provided by the herein proposed operation of KBST-TV. This exhibit very clearly shows that the entire city of Big Spring will be well within the proposed 74 dbu contour. The distances to the contours were determined in accordance with the provisions of Subpart E of Part 3 of the Commission's Rules, using the propagation curves of Figure 5 of Appendix III.

Exhibits Nos. E-3 and E-4 of this report are complete with all information required by Section V-G. It is understood that an overall height of 500 feet above ground has been approved by the GAA for this location. This structure will be constructed so as not to exceed 500 feet above ground including the beacon which will be mounted on top of the TV antenna. Exact dimensions will be included in the license application.



Page 2 EXHIBIT NO. E-1

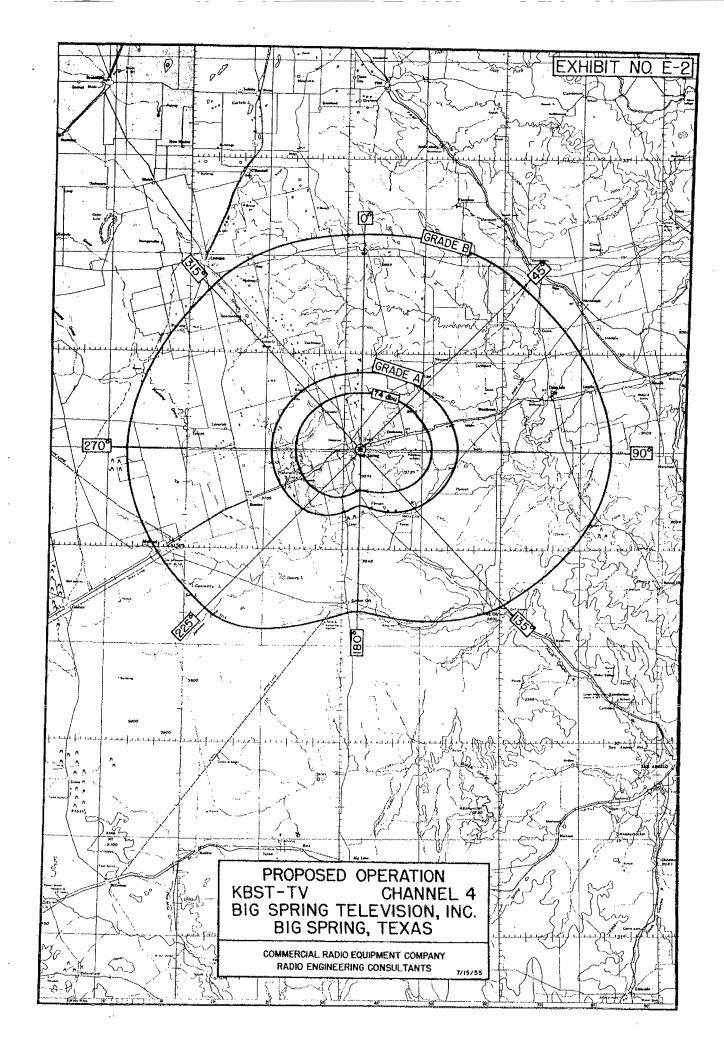
The output of the television transmitters will be determined and maintained by the use of a dummy load and RF Wattmeter. Complete data with regard to the variation of the power output of the aural and visual transmitters to maintain the outputs at the values specified in the authorizations have been filed with the Commission by the manufacturer.

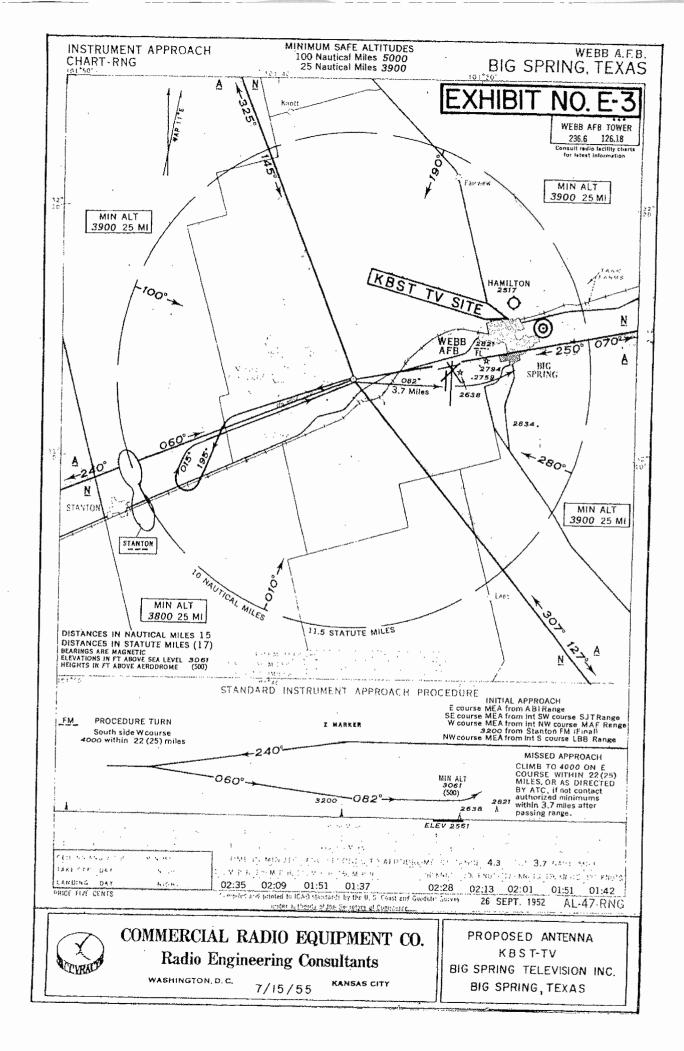
COMMERCIAL RADIO EQUIPMENT COMPANY

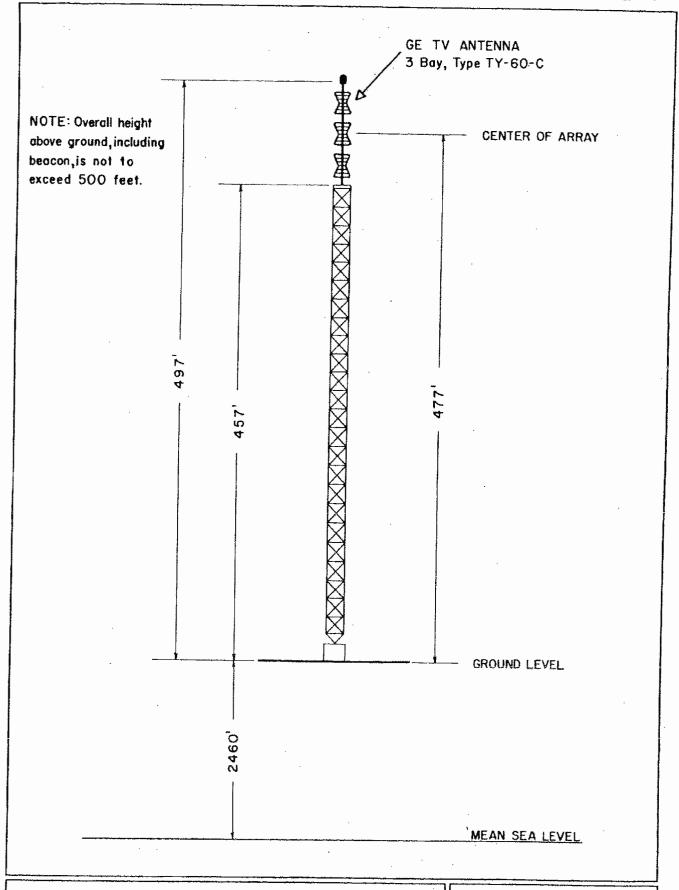
By Edward F. Lorentz Edward F. Lorentz

This report dated: July 15, 1955











COMMERCIAL RADIO EQUIPMENT CO. Radio Engineering Consultants

WASHINGTON, D. C.

7/15/55

KANSAS CITY

PROPOSED ANTENNA
KBST-TV
BIG SPRING TELEVISION INC.
BIG SPRING, TEXAS

RADIO ENGINEERING CONSULTANTS

TV ENGINEERING APPENDIX IV

Application for Modification of Construction Permit KEST-TV Channel L, ERP 5-14 KW at 323 Feet Big Spring, Texas

> Big Spring Broadcasting Co. February 1955



RADIO ENGINEERING CONSULTANTS



Section V-C of FCC Form 301

Statement in lieu of Section V-G of FCC Form 301

Exhibit No. E-1

Exhibit No. E-2

Engineering Statement

Portion of a Sectional
Aeronautical Chart showing
proposed 74 dbu, Grade A
and Grade B contours



Mot Met.

BM1027 2952

Broadcast Application				FEDERAL COMMUN	ICATIONS COMMISSION			Section V-	
TELEVISION BROA ENGINEERING D				Name of applicant Big Spring Broadcasting Co.					
1. Purpose of authorization	on appli	ed for:	(In	licate by check ma	rk)				
(If application is for change E is of a chara answer all paragraphs	a new s acter wh otherw	tation o dch will ise comp	r for cha lete	any of the chang ige coverage or in only paragraphs 2	es numbered B through D, crease the overall heigh and 7 and the appropria phs; for change J, compl	it of the and	terna st	ructure more than 20 fe	
A. Construct a new stat		7.	Į.		S 8				
B. X Change effective rad antenna height above	iated po	wer or		7.4	Construct or	utter		tenna system	
C. Change transmitter 1 D. Change frequency			Section		II. Install auxil main transmit	ter läodi.	ficat	ion of CP	
E. Change antenna system	FT				J. Change studio	(specity)	(BPUI	-1749, as amen-	
2 Facilities requested			······	4,40	7. (a) Antenna stru		ueu a	nd granted)	
Frequency		T			Is the proposed constru	~	mmediate		
, , 		Channel	No.	4	vicinity of any other rad	lio station or	will the	Yes No X	
66	Mc.				proposed transmitting as	ntenna be sup	ported by	the antenna structure of	
Effective Radiated Power		ve Radia	ted	Antenna height	any other radio station? engineering data showin				
(Visual)	Power	(aural)		above average terrain	Will proposed structure				
In dbk: 7.11	In dbk:	4.10)		top of a building? If "	Yea'', state he	ight	Yes No X	
In kw: 5.14	In kw:	2.57	,	323 _{feet}	. t			roposed structure) in feet.	
3. Station location (prin					Overall height in feet al (Do not include the heigh			height in feet above mean el. (Do not include the	
Texas	. '	ity or t		· •	obstruction lighting whi		1	of any obstruction lighting	
4. Transmitter location		Б1	g .	Spring	required.)		which n	may be required.)	
State State	C	ounty	-		440	1 / 12.			
Texas		н	owa	ind	(No Change				
City or town	Q.f			(or other identifi	Height of antenna rac in feet above mean se		er	2080 feet	
0.00 0.0000		tion)	u cas	for order reguerra	Geographical coording		nna (to		
Big Spring		600 K	ent	ucky Way	North latitude		West lor		
5. Main studio location					32 15	16	10	01 26 111	
State	Co	unty	~		How were coordinates				
Texas			F	loward	determined?			lready on file.	
City or town	St	reet addı			Indicate by check mar				
					zone in which structullocated.	re is		2 X 3	
Big Spring		600 K	ent	ucky Way	(b) Antenna data 1:0 Change				
6. Transmitters					Visual		<u></u>	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
Visual					Make			Type No.	
Make RCA	TT-2		In d	d power. bk: 3.01	RCA			TF-3D	
Attenti	.1		In k	w: 2.0	Number of sections	Rated inpu		Power gain in db	
Aural Make	Туре	No.	Rate	d Power	3	in dh	k	1 (0	
RCA	TT-2	ΛΤ .	In d	nk: 0.0		13.39	}	4.62	
	1 1 - 2		In k	<u>v: 1.0</u>	Aural (if separate)			ft	
If the above transmitters are con			3 for		Make			Type No.	
been filed with the F.C.C., atta- showing of transmitter details in			the C	a complete	Same as t	used			
The showing should include sen									
operating constants of the last r					Number of sections	Rated input in dbl	· ,	Power gain in db	
trol, vestigial sideband filter (if networks. If changes are to be r	,.	-			for visu				
schematic diagram and give full				43.4.7		·	l		
(a) Describe in Exhibit NoE-1	ne an s	which w	ill be	used for deter-	If directional antenna	is proposed	, give f	ull details including	
mining and maintaining power ou					horizontal and vertical		_	· · · · · · · · · · · · · · · · · · ·	
specified in this application.					Not pertinent			xhibit No.	
b) Multiplexer: Make R	CA,			Type No.	Is electrical or mechanical beam tilting Yes No X proposed? If so, describe fully in Exhibit No.				
				MI-19390	including horizontal an			1	
Rated input power 10	dbk	•			Will antenna be altered	to provide	mill fi	ll-in? Yes No 🔀	
Rated loss: Visual • 004	db	Aural =.	OUL	db	If yes, describe fully	in Exhibit N	10•		

			7 9	TELF	WISION BROADCAS	T ENGINEERING DAT	`A			Sec	tion V-C, Page	
8. Transmission	Tine propo	sed to	supply po	wer to	the antenna from	the transmitter		***********				
(a) Visual				·		(b) Aural (if s	enarate)	ka v	~			
Makes . RCA		Type MI-		Bated In dbi	imput power k	Make		Туре	No.	Rate in d	d imput power lbk	
		191	13-1		17.16	Same as	used					
Size (nomina) transverse di in inches		I <i>e</i> ngtl	h in feet	1	ioss in db its length	Size (nominal inside transverse dimension) in inches			Length in feet Power loss in this length		r loss in db for length	
3-	-1/8" °	4.	501		•516	for visual						
9. Proposed oper	ation				,			L		<u> </u>		
(a) Visual						(b) Aural						
(after vestig band filter,	Transmitter power output Multiplexer l (after vestigial side in db: band filter, if used)			1.	mut to trans- ission line in dbk:	Transmitter power output		Multiplexer loss in db:		is	Imput to trans- mission line in dbk:	
In dbk: 3.0			•004		3.006	In dbk: 0.0 In kw: 1.0			.004		004	
Transmission line power loss in db;	Antenna im rower in d		Antenna pagain in d		Effective radi- ated power	Transmission line power loss in db:	Antenna i nower in		Antenna po gain in di		Effective radi- ated power	
•516	2.49		4.62		In dbk: 7.11 In kw: 5.14	. 516					In dbk:4.10 In kw: 2.57	
(n) Visual mont					e No.	14. (a) Attach as Exhibit No. a man(s) (topographic where obtainable, such as U. S. Geological Survey quadrangles) for the area within 15 miles of the proposed transmitter location and show drawn thereon the following data:						
		ange				Un file - See BRUT-1749 1. Proposed transmitter location—accurately plotted;						
(b) Aural monit	or			Type	e No.	2. Transmitter radio statio						
	- No Cha	mge		137	. (407	. known commer	cial and	govern	ment recei	ving:	stations	
il. Frequency mo	nitors					within 2 mil 3. Character of						
(a) Visual moni	tor	· ,		<u>r</u>		mitter location, suitably designated as to residential, business, industrial, and rural nature:						
Make	No Ch	ange	ype No.	Acci	nracy	4. At least eig	dit radial	s each	exterding	to a	distance of itter location.	
(b) Aural monit	or No Cha	nge	ype No.	Accı	ıracy	one or more of which must extend through the principal city to be served. On file - No change in site proposed.						
12. If the above approved by the technical descri	F.C.C., inc	chude a	as Exhibit		a brief	On file - no site change profile graphs with reasonably large scales for the radials in (a) (5) above. Each graph shall show the elevation of the antenna radi-						
13. Will the stur and other equipm mission of progr pliance with the	ent propose ams be desi	d for gned f	trans- or com-	Y	es X No	ation center. Identify each graph by its bearing from the proposed transmitter location. Direction of true north shall be zero azimuth, with angles measured clockwise. Show source of topographical data on each.						
						octween two and ten 's Rules, sumply th						
Radial teering (degrees true)	Aver of rad in tee	ege elevi ial (2-10 i aliove i ea level	mi.)	Height i radiati average	n feet of antenna on center above e elevation of I (2-10 mil.)	Effective radiated power in radiat direction	dista to t	redicte	1 1168 166	die	Predicted stance in miles the Grade B	
45	26	15 20	feet .	20	65 reet 60	7.11 dbk 7.11	9.	8	dbu) mi		28.5 dbu) 3.0	
90		59		52	21	7.11	13.	7		3	8.2	
135	25	ΔŢ.		22	<u> </u>	7.11	10.				0.6	
180	25	1.2 68	-	1(2: ຊ			0.1	
270	2L			3.1 UC		7.11	10.	ı		-	L.6	
315	25		٠	3]		7.11	10				5•1 1•7	
(*)				·············		annaga a Marina and ann					k • form o	
Average	OF F	7										
Rudtal over princi			not includ	ted abo	ve. Do not incl	ude in average.						
Antenna belelit abo	NO AVERAGE	terrai	n 323		foot. (Must.	be identical with 1	aragraph	ري)				

Big Spring Broadcasting Company

101	roadcast Application TELEVISION BRO.	ADCAST ENGINEERING DATA	Section V.C. II.
18- be	i. Attach as Exhibit No. E-2 map(s) (Sectional Aeronaut clearts where obtainable, preferably without aeronautical or lay) of the area proposed to be served and shown drawn ther (a) Proposed transmitter location and the radials along which the profile graphs have been prepared; (b) The studio location and boundaries of the principal community; NO Change in Site or Studies. The predicted Grade A and Grade B contours from 12 above; (d) The required minimum field strength contour; (e) Scale of miles. Will the minimum required value of field strength predicte provided over the entire principal community proposed to	photographs taken in clear weat and angles to show the nature of the vicinity of the proposed trigraphs must be marked so as to graphs taken in eight different position on the ground will be a aerial photographs if the area of the dive date photographs were taken. No change in site— ted in accordance with the method preserved?	f the surrounding terrain in ansmitter site. The nhotosinow compass directions. Pho directions from an elevated acceptable in lieu of the can be clearly shown. - Photos on file Yes X No
20.	(a) Does the proposed transmitter location comply with the	e minimum separation requirements of	Yes X No
	the Commission's Rules? (NOTE: Site alrea (b) If any co-channel separations are proposed that are lor if other channel separations are proposed that are such separations below. (Include existing stations, the location and geographical coordinates of each ante to each from the proposed transmitter location; and the state.	ess than the applicable minimum separation less than the applicable minimum separations that the applicable minimum separations and cities which appearance appropriate the separation of the se	tions olus 10 miles, list r in the table of assignments
Professional and the second se	Not pertinent - this is separations already appro		*
con	If this is an application for modification of construction struction and indicate when it is expected that construction have lower steps toward construction have Zoning clearance for tower erection been obtained from the City Commiss Land lease deal has been signed and Final architects' building plans had CBS Secondary Market Flan contract	don will be completed. The been accomplished: I and land use for studio- Tion. I paid for. The been submitted. That been signed	the present status of transmitter has
	Tower bids from all major tower com award is about to be made. It is expected that construction will the grant of this application.	panies have been received	

SECTION V-Q OF FCC FORM 301

The applicant proposes no changes in either the height or location of the antenna system by this application from that already authorized in Construction Permit, File No. BPCT-17h9.

Section V-G of FCC Form 301 is therefore not believed applicable to this application and none is submitted herewith.

February 23, 1955



EXHIBIT NO. E-1

Application for Modification of Construction Permit MEST-TV Big Spring, Texas Chennel 4. - EEP 5.14 KW @ 323 Feet

精致的分析的经验教育的特殊的的特殊的

BEGINSEPING STATEMENT

Commercial Radio Equipment Company has been retained by the Big Spring Eroadcasting Company, permittee of TV Station EEST-TV, to prepare the necessary engineering data to accompany their application for modification of construction permit to change type transmitter and increase the effective radiated power. This report contains Section V-C of FCC Form 301 and the data and exhibite required thereby. A statement is submitted in lieu of Section V-O of FCC Form 301.

The applicant, by this application for modification of the KEST-TV Construction Fermit, requests a change from a 300 watt transmitter to a 2 KW transmitter which will result in operation on Channel h with an Effective Radiated Fower of 5.1h kilowatts at an antenna height of 323 feet above average terrain.

Since no change is proposed in antenna height or in its location, certain of the information requested by Section V-C of FCC Form 301 is already on file with the Commission. In such cases, the pertinent item in Section V-C is answered "No Change" or "On File". This indicates that reference should be made to the engineering data included with application File No. BPCT-17h9, as amended for the information or exhibit requested.

Exhibit No. E-2 of this report shows the limits of Grade A and Grade B coverage which will be provided by KBST-TV, operating as proposed. The entire city of Big Spring will be well within the proposed 74 dbu contour, which is also shown. The distances to the contours were determined in accordance with the provisions of Subpart 3 of Part 3 of the Commission's Rules, using the propagation curves of Figure 5 of Appendix III.

The output of the television transmitters will be determined and maintained by the use of a dummy load and RF Wattmeter. Complete data with regard to the power output of the aural and visual transmitters to maintain the outputs at the values specified in the authorizations have been filed with the Commission by the manufacturer.

COMMENCIAL-RADIO PQUIPMENT COMPANY

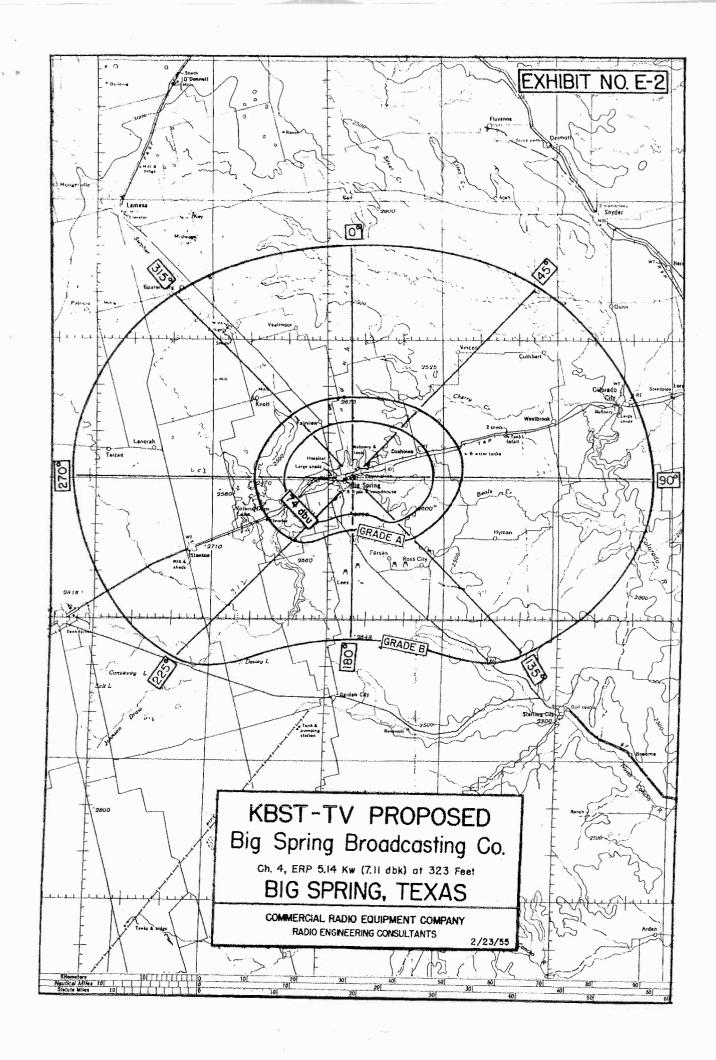
I well to

lise a manufacture of the state of

CURAC

This report dated:
February 23, 1955
KANSAS CITY, MO.

WASHINGTON, D. C.



SPEARMAN AND ROBE ATTORNEYS AT LAW Munsey Building Washington 4, D.C. March 7, 1956 Miss Mary Jane Morris, Secretary Federal Communications Commission Washington 25, D.C. File Mo. HMPCT-3747 Dear Mas Morrist Pending your receipt of a notarised request by the applicant, it is respectfully requested that a ten-day special temporary authorization be granted to Morits M. Zenoff, parmittee of KSED-TV, to begin regular commercial operation utilizing an Adler transmitter Type No. VST-150A; antenna by Prodelin Type No. ETV-4, giving an effective radiated power in kilowatts of visual 0.430 and aural 0,215, with an average entenns height above average terrain of 139.6 feet. This antenna is to be located at the Frement Hotel at Second and Frement Streets, Las Vegas, Nevada. These facilities are those requested in RMPCI-3747, as amended, and action on that application should precede or be concurrent with your estion on this request. If any questions arise during the course of your consideration of this matter, please communicate with this office, Very truly yours, SPEARMAN AND ROBERSON 1. Stateton Counsel for MORITZ M. ZENOFF intits % lenoff

by ag cdy * MAR 1955 PEDERAL COMMUNICATIONS COMMISSION Washington 25, D.C. In re Application of Pile Ro. BOCT-3747 MORITZ ZENOFF (KSHO-TV) amended Las Vegas, Nevada For Modification of Construction Fermit AMENDMENT Please amond the above-styled application in accordance with the details set forth in affidevit of Grant Wrathall, consulting engineer, attached hereto and made a part bereof. Dated this second day of Merch, 1956. /s/ Moritz Zenoff Moritz Zenoff MAR 8 RES Applicant CHOCKET BU Subscribed and sworn to before me this ____ 5th day of March 1956. /s/ Lillian D. Lane Notary Public My Commission Expires July 30, 1958 Broadcast Application FEDERAL COMMUNICATIONS COMMISSION Section V-C Name of applicant TELEVISION BROADCAST Big Spring Broadcasting Co. ENGINEERING DATA 1. Purpose of authorization applied for: (Indicate by check mark) (If application is for a new station or for any of the changes numbered B through E, complete all paragraphs of this form; if change F is of a character which will change coverage or increase the overall height of the antenna structure more than 20 feet, answer all paragraphs, otherwise complete only paragraphs 2 and 3 and the appropriate other paragraphs; for changes G through I, complete only paragraph 2 and the appropriate other paragraphs; for change J, complete only paragraphs 2 and 16) A. X Construct a new station F. Change antenna system B. Change effective radiated power or G. Change transmitter antenna height above average terrain H. Install auxiliary or alternate main transmitter Change transmitter location D. Change frequency I. Other changes (specify) E. Approval of site and antenna J. Change studio location Facilities requested Transmitters Preguency Channel number (a) Visual Type No. Rated power Make In dbk: -3.01 66 72 П RCA TT-500A In low: .50 (b) Aural Effective Radiated Power Antenna height above average (visual) Make terrain in feet. (Must agree Type No. Rated power with height given in Para. 12 In dbk: 1.05 In dbk: -5.23 RCA TT-500A of this Section) 3281 1.26 In low: .3 (a) Antenna structure If the above transmitters are composite or of types for which data have not been filed with the F.C.C., attach as Exhibit No. a complete showing of transmitter details in accordance with the Is the proposed construction in Yes 🗌 No X a complete snowing of transmitter details in accordance with the Commission's Rules. The showing should include schematic diagrams, makes and types of tubes, operating constants of the last radio stages, full details of frequency control, vestigial sideband filter (if used), multiplex networks and isolation networks. If the immediate vicinity or does it serve to modify the construction of any standard broadcast station, IM broadcast station, television broadcast station, or other class of radio station? If "Yes", attach as Exhibit complete engineering data thereon. changes are to be made in a licensed transmitter, include a schematic diagram and give full details of the changes Will proposed structure be constructed Yes No X on the top of an existing structure?

If "Yes", describe and give height above ground of existing structure. (c) Describe in Exhibit No. E-I meens which will be used for determining and maintaining power output of the transmitters to the values specified in this application. 5. Modulation monitors Overall height in feet Overall height in feet above ground. (Do not include the height of any obstruction lightabove mean sea level. (Do (a) Visual monitor or monitoring equipment not include the height of Type No.WM 20B ing which may be required.) any obstruction lighting which may be required.) PP0. (b) Aural monitor 29001 General Radio Height of antenna radiation center in feet above mean sea level. 2880; Prequency monitors (a) Visual monitor (b) Antenna data Make General Radio Vieusl Type No. ?fake (b) Aural monitor RCA TF-3D Accuracy General Radio 1183-TL On file Number of sections Power gain in db 7. If the above monitors or monitoring equipment have not been 3 section 1.62 db approved by the F.C.C., include as Exhibit No. a brief technical description of each. Not applicable Aural (if separate) Transmission line proposed to supply power to the antenna Type No. from the transmitter (a) Visual Same as for visual Malca Description Teflon Insu-Type No. Power gain in db Number of sections RCA MI-19313 lated Coax Size (nominal inside trans-Power loss in db Length in feet verse dimensions) in inches for this length Is directional antenna proposed? Yes 🔲 'Yo of 3-1/8" 4501 - 0.516 db If "Yes", attach as Exhibit No. complete engineering data thereon.

Broadcast Application TELEVISION BROADCAST ENGINEERING DATA Section V-C, Page 2											
	on line (Con	timed)		10. Will the studios, cameras, microphones, Yes X No							
(b) Aural (if	separate)			and other equipment proposed for trans-							
Make		Type No.	Description	mission of programs be designed for com-							
		or visual		pliance with the Co	emission's Rules?						
Sime (nominal transverse dis		Longth in	Power loss in db for	1) (0) 444-0) 00 70	ANAM R O						
inches		1001	this length		chibit No.E-2 a map (s)						
1				the area within 15	miles of the morrosed to	y quadranguas) sor					
9. Proposed o	nerret (cn			the area within 15 miles of the proposed trensmitter location and show drawn thereon the following data:							
(a) Visual	horación			l. Proposed transmitter location—accurately plotted:							
Transmitter p	man output	Multiplexer los	s Input to trans-	Proposed transmitter location—accurately plotted; Transmitter location and call letters of all known							
(after vestig	ial side	in db:	mission line in dbk:	radio statio	the location of siving stations						
In dbk: - 3. In low: 0.		- 0.043	mitter location;								
Transmission	Antenna inr	art Antenna pom	er Effective radi-		the area within 2 miles location, suitably design						
line power	power in di			dential, bus	iness, industrial, and	nural nature;					
loss in db:			In able: 1.05	5. At least eig	fit radials each extendi	ng to a distance					
- 0.516	_ 2 540	4.62		of ten or more miles from the proposed trensmit location, one or more of which must extend thro							
- 0.510	- 3.50	4.02	In low: 1.26	the reinstea	extend through						
(b) Aural				ore bringipe	d city or cities to be	201 AQT*					
Trememitter po	mer output	Multiplexer loss	Input to trans-								
	in db: mission line in (b) Attach as Exhibit No. E-3 profile gra										
Indbk: - 5	.23		OOK:	reasonably large scales for the radials in (a) (5) above.							
In low: C)•3	- 0.043	-5•273	Each graph shall show the elevation of the antenna redi- ation center. Identify each graph by its bearing from the proposed transmitter location. Direction of true north							
Transmission line power	Antenna imp			shall be zero azimu	th, with angles measured	true north					
loss in db:	bosst, m on	k: gain in db:	area power	Show source of topo	graphical data on each.						
			In dbk: 1.17	į.							
- 0.516	- 5.789	4.62	In lor: 0.764								
and in accorda	ence with the	procedure presc	the eight mile distance ribed in the Commission of interference.)	between two and ten mais Rules, supply the	iles from the proposed t following tabulation of	ransmitter location, data: (Grade A and					
Radial	Avere	e elevation	Height in feet of	Effective ra- Predicted Predicted							
bearing		ial (2-10 mi.)	antenna rediation	distance in distance							
(dagrees tru	e) in rec sea la	st above mean	center above aver- age elevation of	direction	miles to the Grede A (60 dbu	miles to the Crade B (47					
	••••		radial (2-10 mi.)		contour	contour dbu)					
0	. 26	515	265 feet 360	1.05 m	6.8 -	22.0 ml.					
45	، <u></u>	515 feet 520	360	1.05 dbk	$\frac{6.8}{8.3}$ mi.	25.0 mi.					
				<u></u>							
90		<u>359</u>	521	1.05	10.0	30.0					
<u> 135</u>		581	299	1.05	$\frac{7.5}{1.5}$	23.9					
180		775	, 105	1.05	4.7	Tit • 0					
2 25	2	568	312	1.05	7.8	24.4					
270	2.	407	473	1.05	9.5	29.0					
315		591	289	1.05	7.4	23.0					
I											
	J										
Antenna height	above average	e terrain_326	foet (Mist b	oe identical with Para	graph 2)						
			ctional Aeronautical t aeronautical over-	14. Attach as Exhib: photographs taken	it No. E-5 a sufficie in clear weather at appr	nt number of serial opriate altitudes					
		-	d shown drawn thereon;	and angles to show the vicinity of the	the nature of the surro proposed transmitter s	unding terrain in ite. The photo-					
		er location and s graphs have been	the radials along prepared;	graphs must be marked so as to show compass directions. Photo- graphs taken in eight different directions from an elevated position on the ground will be acceptable in lieu of the serial photographs if the area can be clearly shown.							
(b) The pr	edicted Grad	e A and Grade B	contours from 12 above;								
(c) Scale of miles.											

Danieland franklands	TO TOTAL SOAT	DCAST ENGINEERING DATA Section V-C, Page 3
Broadcast Application 5, Proposed location of trans		POPPE ATTENDED TO THE POPPE ATTENDED TO THE
State	County	Geographical coordinates (to be determined to nearest second) of
Texas	Howard	the proposed TV antenna structure.
City or town	Street address	New York and the second of the
Big Spring	600 Kentucky Way	North latitude West longitude 101°26 444
How were coordinates determined? Scale	ed from USGS Topograph	ic kap
6. Proposed location of main State	studio County	Other studies proposed
Texas	Howard	
City or town	Street address, if known.	None
Big Spring	Same as Transmitter	1,0116
	field strength in dbu, predicted the entire city in which the main	in accordance with the method prescribed in the Commission's Rules studio is located.
83 dbu		
28. (a) Does the proposed tran Commission's Rules?	emitter location comply with the mi	nimum separation requirements of the
coordinates of each am instance to measure th	. (Include existing stations, propterma; the distance to each from the distance.) If none, so state.	speed stations and assignments; the location and geographical proposed transmitter location; and the method used in each
None		
Togetify that I am the	Pholonical Dismotor Chief Business	on Consider Budget and the
best of my knowledge and	that I have examined the foregoing belief. (This signature may be omi on contained herein has been obtain	statement of technical information and that it is true to the statement of technical information and that it is true to the tited provided the engineer's original signed report of the data and is attached hereto.)
	By ELL	AL RADIO EQUIPMENT COMPANY
Date July 30, 1	953 R	CHIPPINETON ON THE PROPERTY CONSULTING PROPERTY

Edward F. Lorentz har in

or Consulting Engineer

Broadcast Applicati	lon		FEDERAL COM	MUNICATIONS C	OMMISS	ION	Section	V-G (Antenna)		
			Name of app	•		_				
	ND SITE INFOR			ring Broad						
(see	instruction B						- Y.	17.3		
	Section I)		C/O Bac	ilo Statio	n KBS	ΣT				
Since this Section is	submitted to the Re	egional Airspa	as Subsampleres of th	ho Air Coordinatina	Station KBST y Texas Coordinating Committee for clearance in connection with obstructions to sirm and separately filed data must not be incorporated by reference.					
navigation, it is neces	seary that all the	unta called !	ur ve supplied. Pres	viously and separat	ATA Lifed	data must not be incorp	drate: by reference.			
Engene L. B	urke					eation (Check appropria				
Address						construction	ᄶ			
Bowen Build	ing, Wash:	ington.	D. C.	b. Alter		fexisting antenna stru Setion				
Consulting Enginee						errounding terrain				
Commercial	Radio Equ	ipment	Company	List any	natural	formations or existing				
Aldress			* =A			os, towers, etc.) which to shield the antenna				
Internation	al Bldg.	Washin	gton. D. C.			to ameto the antenna tical hazard of the am		பார்_		
Class of station		ilities req								
Commercial		-	1.26 KW 43	128 1		None				
		عالم وجا	T-50 WII @)			110112				
1. Location of an	County	[na	or Town	_						
	1	'								
Texas	Howard	Bi	g Spring							
Exact anterna local	tion (street ad	dress) (If	outside city limi	ts, Submit a	s Exhib	it No.E-Oa chart o antenna site, and a	n which is plott	ted the exact		
give distance and	direction from,	and name o	of nearest town)	the natu	ral fon	mations and/or the e				
600 7	tual- m			listed a		shall he on T-a	nt Armanah Ara	of for the		
OUU Ken	tucky Way					ahall be an Instrume n reverse aide there				
				cal (har	t, choi	ce depending upon pr	oximity of the s	entenna site to		
Geographic coordin	stes (to be det	ermined to	nearest second			1/ In general, the only when the antenn				
For directional an	•			from a l	should be used only when the antenna site is more than 10 miles from a landing area or when an Instrument Approach Chart is un-					
For single vertical				obtainat	obtainable. 1/ These charts may be purchased from the U.S. Coast and Geodetic Survey, Washington 25, D.C.					
North latitude		West langit	cude .	1 / Excep	1/ Exception - Where the proposed antenna site is within the boundary of a landing area for which no Instrument Approach Chart					
32 ° 15 '	16 "	101 0	بالبار 26	boundary	of a l	anding area for whicubmit a self-made, l	h no Instrument	Approach Chart		
				site, nr	-av(s) s	ubmit a self-made, i and existing man-made s	trictures listed	above.		
3. Designation, d nearest establ	istance, and be ished airway wi	-	mer line of C			miles, South				
4. List all landing area from the	ng areas within	1 10 miles o	of antenna site.	Give distance	and dire	ection to the nearest	t boundary of ea	ch landing		
	Landing A	roa			Distanc	度	o <u>Pirect</u> i	on.		
(a) Webb AFB	}			4.25 mi	les		247 True	}		
(b) Hamilton				1.5 Lin	es		3080 True	<u> </u>		
(c)										
5. Description o	f anterna avet-	m (If di-	tional. sive energy	ing and orders	ation of	towers).				
1	_			_		·				
Single	400' guye	d steel	tower supp	orting TV	ante	nna				
						-				
Type RCA Ty	pe TF-3D									
Description of to			-							
Self-supporting	No)	Cuyed	Yes		Tubular (Pole) No			
Tower (height fig					11-			11.0		
1	n lighting)		#1	#2	#3	#4	#5	#6		
Height of radiatin			401							
Overall height abo	<u>-</u>		7170;							
Overall height abo			29001		L					
						ement array (either				
mit as Exhibit No. their orientation	and spacing i	in feet. Cl	learly indicate if	any towers are	e existi	eights of the elements of the	icable	•		
Submit as Prhibit	MOD-7 a ver	rain fanite	sketch for the or	nonosed total si	tmetime	(including support)	ing building if	any) giving		
heights above ground in the proposed a	und in feet for	all signif	licant features.	Clearly indicat	exist	ing portions, notine	permung and 1	r€nr ng.		
installed and main	ntained at the	uppermost p	oint (s) ?				Yes X	d/I		
6. Is the proposed adjoining the	d site the same transmitter-an					Date July 30	1052			
stations author	rized by the Co	mmission or	- speci-	Ven C	N2 ←			Distraction on		
fied in another	r application p	ending before	ore the Commission?	Yes	No [2]	COMMERCIAL I	RADIO EQUI	THENT CO.		
If the enswer is "Y	COS , KIVO	T EX	le			Dy Zaware	W have	zu 5		
#1.#J.k			mbers			Edwar United Ten	- Carimar preser	1 W. F. A. M. T.A.		

RADIO ENGINEERING CONSULTANTS

EXHIBIT NO. E-1

Application for NEW COMMERCIAL TV HROADCAST STATION Ch. 4, ERP 1.26 KW (1.05 dbk) @ 326' Big Spring, Texas Big Spring Broadcasting Co.

ENGINEERING STATEMENT

Commercial Radio Equipment Company has been retained by Rig Spring Broadcasting Co. to prepare the necessary engineering data to accompany its application for a new television broadcast station in Rig Spring, Texas. This report contains Sections V-C and V-G of FCC Form 301 and the exhibits and information required by these sections.

Big Spring Broadcasting Co. by this application requests a Construction Permit for operation on VHF Channel h (66-72 Mcs) with a Visual Effective Radiated Power of 1.26 kilowatts (1.05 dhk) with an antenna height of 328 feet above average terrain.

The applicant proposes to make the TV transmitting and studio installation at a location within the city limits of Rig Spring known as 600 Kentucky Way. The proposed antenna structure will consist of a 400 ft. guyed steel tower supporting the three section RCA Type TF-3D VHF TV antenna and will have an overall height above ground of 440 feet (See Exhibit No. E-3 of this report).

The proposed television operation is in full accord with the Table of Assignments and Television Engineering Standards contained in Part 3 of the Commission's Rules. Channel h is assigned to Big Spring, Texas, in the Table of Assignments. Operation as proposed from the specified transmitter location will provide a signal in excess of 7h dbu to all of the city of Big Spring.

The population of Rig Spring, Texas, according to final 1950 U.S. Census data, is 17,286 persons.



RADIO ENGINEERING CONSULTANTS

Page 2 EXHIBIT NO. E-1

TOPOGRAPHIC INFORMATION

Topographic maps are not available for all of the area around Rig Spring. Those topo maps which are presently available are shown in Exhibit No. B-2 of this report, with the radials along which Profile Graphs have been prepared shown thereon. Beyond the limits of the topo maps as shown, a study of Sectional Aeronautical Charts of the area indicates that the variation in ground elevation is relatively small. Although the contour intervals as shown on Sectional Charts of the area are in 500 foot levels, a study of this information shows that the variation is less than 500 feet in the area with which we are concerned.

The profile graphs shown in Exhibit No. E-3 of this report have been prepared from the available information as explained above. In view of the relatively level terrain in the Big Spring area, those pertions of the radials beyond the available topographic maps have been assumed to be flat and are shown as dashed lines on the Profile Graphs (Exhibit No. E-3).

Exhibit No. E-4, attached to this report, shows the limits of Grade A (68 dbu) and Grade B (47 dbu) coverage which will be rendered by the proposed operation as determined in accordance with the provisions of Subpart E of Part 3 (Rules Governing Television Broadcast Stations) of the Commission's Rules, using the propagation curves of Figure 5 of Appendix III.

The output of the television transmitters will be determined and maintained by the use of a Dummy Load and HF Wattmeter. Complete data with regard to the variation of the power output of the aural and visual transmitters to maintain the outputs at the values specified in the authorisations have been filled with the Commission by the manufacturer.

All equipment specified herein was selected by the applicant.

COMMERCIAL RADIO ECHIPMENT COMPANY

W Edward J.

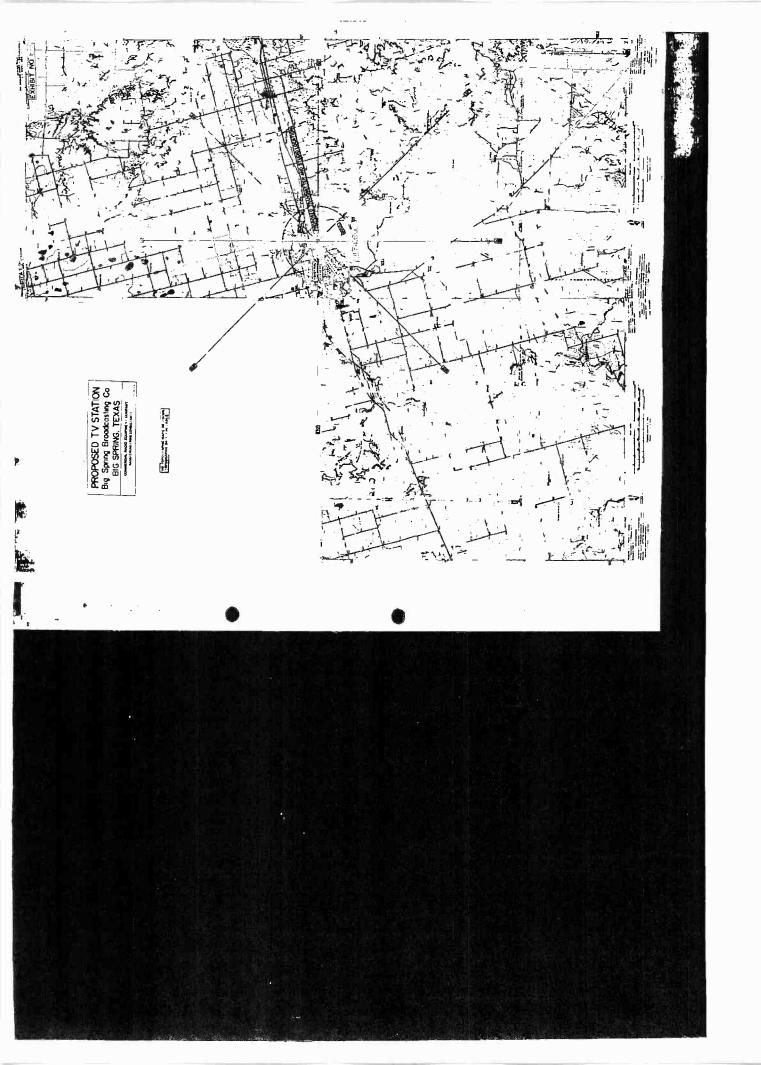
Edward F. Lorenta

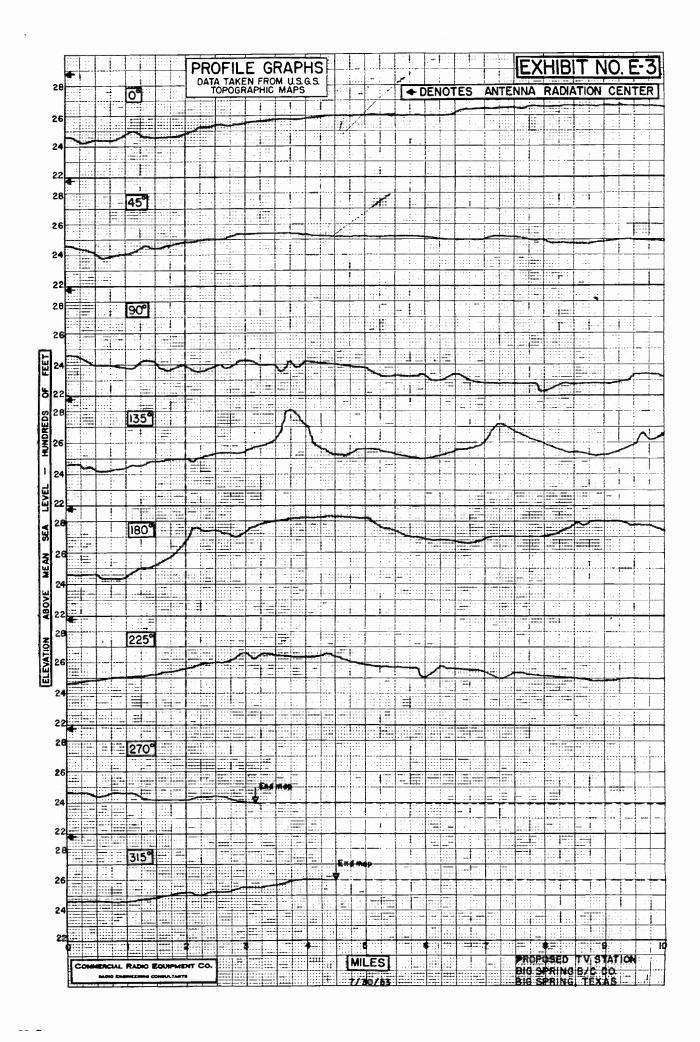
This report dated: July 30, 1953

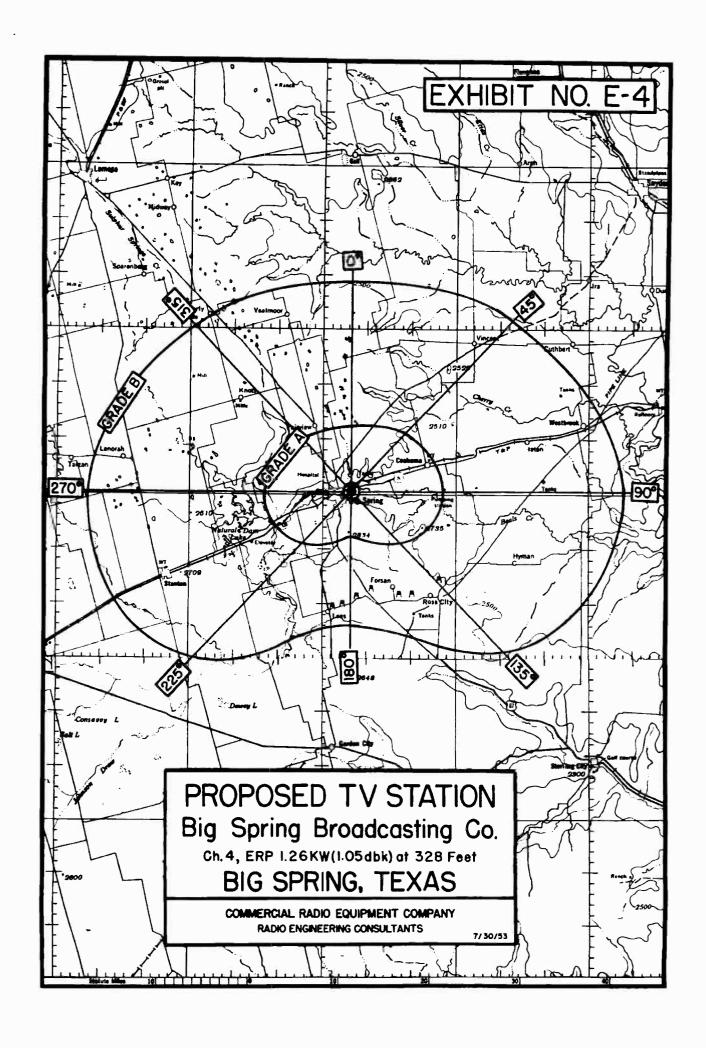


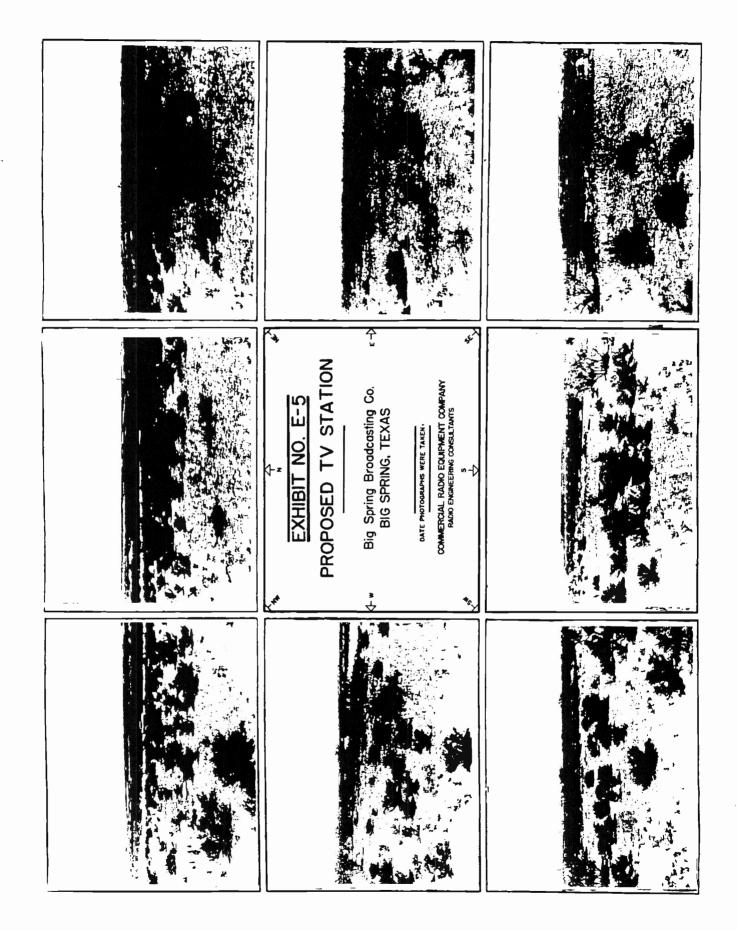
KANSAS CITY, MO.

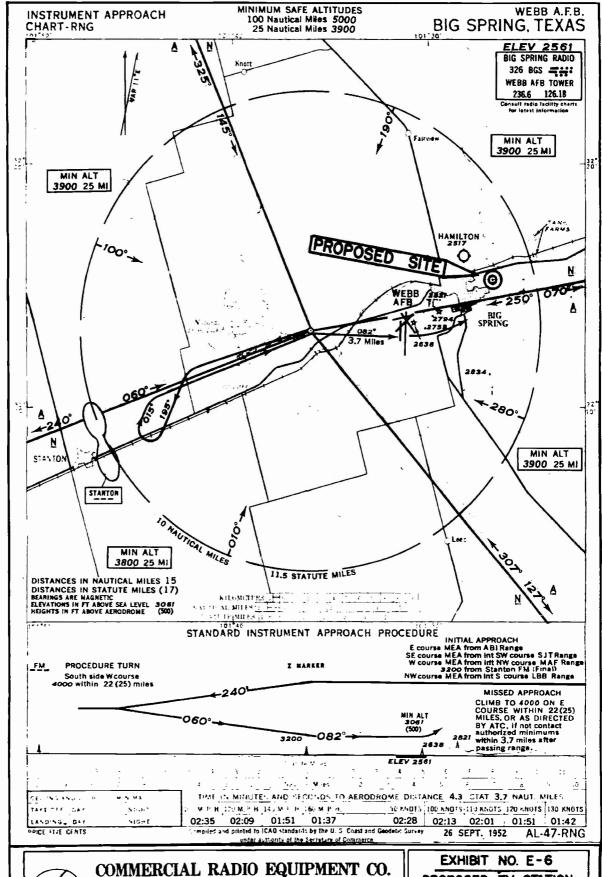
WASHINGTON, D. C.











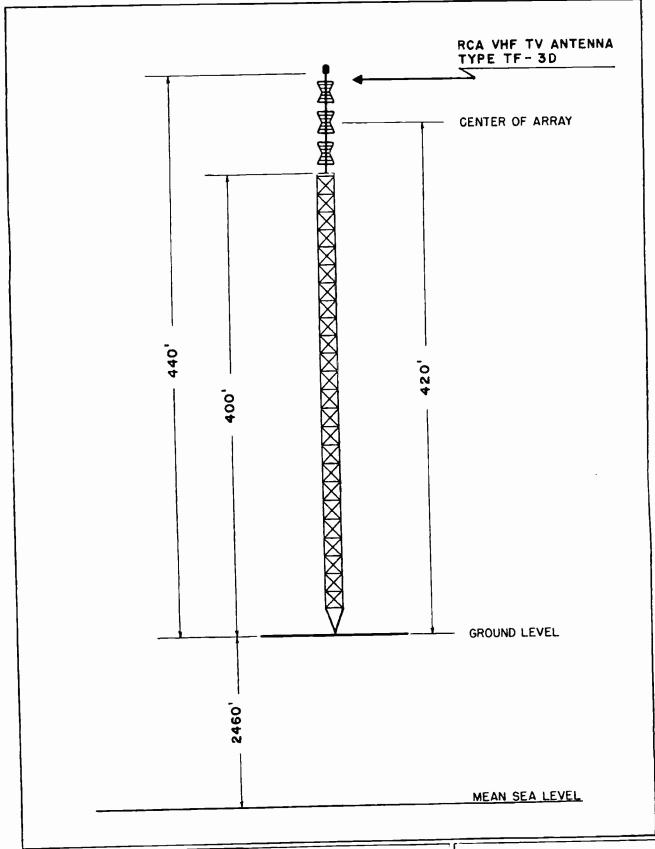


COMMERCIAL RADIO EQUIPMENT CO. Radio Engineering Consultants

WASHINGTON, D. C.

KANSAS CITY

EXHIBIT NO. E-6
PROPOSED TV STATION
BIG SPRING B/C CO.
BIG SPRING, TEXAS





COMMERCIAL RADIO EQUIPMENT CO.
Radio Engineering Consultants

WASHINGTON, D. C.

KANSAS CITY

PROPOSED TV STATION
BIG SPRING B/C CO.
BIG SPRING, TEXAS

RADIO ENGINEERING CONSULTANTS

CONTENTS OF REPORT

Section V-C of FGC Form 301

Section V-G of FCC Form 301

Exhibit No. E-1 (Amended) Engineering Statement

Exhibit No. E-4 (Amended) Sectional Aeronautical Chart showing Grade A and Grade B

Service Contours



Not Ref.	12/4/53		A	311		
Broadcast Application		CATIONS COMMISSION		Section V-C		
TELEVISION BROADCAST ENGINEERING DATA	Name of applicant Big Spring	Broadcasting Co.	B -	1849		
1. Purpose of authorization applied for	: (Indicate by check may	rk)				
(If application is for a new station change F is of a character which wil feet, answer all paragraphs, otherwi through I, complete only paragraph 2	l change coverage or incr se complete only paragrap	ease the overall height of the constant of the constant of the appropriate of the appropriate of the second of the	antenna structum other paragraphs	e more than 20 ; for changes G		
A. X Construct a new station	F.					
B. Change effective radiated power or antenna height above average terra	in.					
	ın H	. Install auxiliary or alternmein transmitter	ate			
C. Change transmitter location	_					
D. Change frequency	I.	Other changes (specify)				
E. Approval of site and antenna Amendment to Applicati	J. on ton CD (Dilla	Change studio location				
2. Facilities requested	on for or trite	4. Trensmitters				
Frequency	Channel number	(a) Visual				
,		Visice	Type No.	Rated power		
66 — 72	<u>1</u>	RCA	TT-500A	In dbk: -3.∪1		
Mc.	4	IWA	11-500k	In law: 0.5		
Effective Radiated Power Antenna	height above average	(b) Aural				
(visual) terrain	in feet. (Must agree	Make	Type No.	Rated power		
Lin ank: 1.22	ight given in Para. 12	RC A	TT-500A	In dbk: -5.23		
In low: 1.32	Section) 3281			In low: U.3		
3. (a) Antenna structure		If the above transmitters are o	composite or of t	types for which date		
the immediate vicinity or does it serve to modify the construction of any station, FM broadcast station, televisic or other class of radio station? If "Ye No. complete engineering data there	n broadcast station, s", attach as Exhibit	a complete showing of transmitter details in accordance with the Commission's Rules. The showing should include schematic diagrams, makes and types of tubes, operating constants of the last radio stages, full details of frequency control, vestigial sideband filter (if used), multiplex networks and isolation networks. If changes are to be made in a licensed transmitter, include a schematic diagram and give full details of the changes.				
on the top of an existing structure? If "Yes", describe and give height above gro	and of existing structure.	(c) Describe in Exhibit No. F. 1 means which will be used for determining and maintaining power output of the transmitters to the values specified in this application.				
	erall height in feet ove mean sea level. (Do	5. Modulation monitors (a) Visual monitor or monitoring equipment				
height of any obstruction light- no	t include the height of	15ther Will				
l with	y obstruction lighting ich may be required.)	RUA	TLI-6A			
14401	29001	(b) Aural monitor		Time No.		
Height of antenna radiation center in fe	et above mean sea level.	GR		Type No. 1163-Tl		
2880 '		6. Frequency monitors				
(b) Antenna data		(a) Visual monitor				
Visual Nake	Type No.	Make GR (b) Aural monitor	1183-11	Accuracy On file		
RCA	TF-3D	Make	Type No.	Accuracy		
Number of sections	Power gain in db	GR	1183-71	On file		
		7. If the above monitors or m				
3 section	4.62 db	approved by the F.C.C., inclu technical description of each	Data on			
Aural (if separate)		8. Transmission line proposed	200 011			
Same as for visua	Type No.	from the transmitter (a) Visual				
Number of sections	Power gain in db	Make RCA	Type No. MI-19313	Description Teflon Insu- lated Coax		
Is directional antenna proposed? Ye	3 \ \(\bar{\alpha}\)	Size (nominal inside trans- verse dimensions) in inches	Longth in feet	Power loss in do for this length		
If "Yes", attach as Exhibit No. complete engineering data thereon.		3 - 1/8"	4501	- 0.346		

Broadcast Appl	ication		TELEVISION BROADCA	ST ENGINEERING DATA		Section V-C, Page 2			
	n line (Con	timued)	- N	10. Will the studios,	cameras, microphones,	Yes X No .			
(b) Aurel (if	separate)			and other equipment proposed for trans-					
Make		Type No.	Description	mission of programs b	-				
	Sam	as for v	.sual	pliance with the Comm	TBSIOU. 8 WITER!				
Size (nominal	inside	Length in	Power loss in db for						
transverse din	mension) in	feet	this length	11. (a) Attach as Exhibit No. E-2 a map(s) (topographic where obtainable, such as U. S. Geological Survey quadrangles) for					
inches									
					les of the proposed to n the following data:	ensmitter location			
9. Proposed of	peration			attr attow or swir the 160	in the fortowing data:				
(a) Visual			7	Proposed transmitter location—accurately plotted; Transmitter location and call letters of all known					
Trensmitter po		Multiplexer los	Input to trans- mission line in		(except amateur) and				
band filter, i		us.	dbk:		al and government rece				
In dbk: - 3	.01	- 0.043	- 3.053		of the proposed trans	mitter location;			
In low: 0.5				-	ion of main studio; he area within 2 miles	of moreon			
Transmission	Antenna in	put Antenna po	er Effective radi-		cation, suitably design				
line power	power in d				ess, industrial, and i				
loss in db:			In dbk: 1.22		radials each extendir	_			
-0.346	- 3.39	99 4.62		_	miles from the propos or more of which must	1			
Language and a	رر - ر	4.02	In low: 1.32		city or cities to be	•			
(b) Aural				·					
Transmitter po	mer output	Multiplexer loss	Input to trans-						
_	0.0	in db:	mission line in dbk:		ibit No. E-3 profi				
In dbk: - 5	-			reasonably large scale					
In kw:	•3	- U.O43	- 5.273	Each graph shall show the elevation of the antenna radiation center. Identify each graph by its bearing from					
<u> </u>	Antono I	not 4-4	er Effective radi-	proposed transmitter location. Direction of true north					
Transmission line power	Antenna in power in di			shall be zero azimuth,	with angles measured	clockwise.			
loes in db:		g =	7.0	Show source of topogra	aphical data on each.				
# -1.4			In dbk → 0.999						
- 0.346	- 5.6	619 4.62	In low: 0.796						
and in accorda	ince with the	e procedure preso	the eight mile distance cribed in the Commission of interference.)	between two and ten mile's Rules, supply the fo	es from the proposed t llowing tabulation of	ransmitter location, data: (Grade A and			
Radial		ge elevation	Height in feet of antenna radiation	Effective ra- diated power	Predicted distance in	Predicted distance in			
bearing (degrees true		dial (2-10 mi.) et above mean	center above aver-	in radial	miles to the	miles to the			
(degrees tru	sea l		age elevation of radial (2-10 mi.)	direction	Grade A (65 dbu,	Orade B (47 contour			
						abu)			
0		2615 feet	_265 feet	1.22 dbk	6.9 mi.	22.0 mi.			
45	9	2 <u>520</u>	360	1.22	8.3	25.0			
<u>90</u>		2359	521	1.22	10.0	30.0			
_135		<u>2581 </u>	2 99	1.22	_ 7.5	23.9			
180		2775_	105	1.22	4.7	1 4.0			
225		2568	312	1.22	7.8	24.4			
270		2L07	473	1.22	9.5	29.0			
315		2591	289	1.22	7 . 4	23.0			
		and the State of t		a na airean de riana	on on which the same				
					territorial transport for his region and part	1			
Antenna height	ahova onava	me termain	328 feet (Must b	e identical with Paragr	aph 2)				
Withouther restell	more avera	20 ACT 1 WILL	- Took (arrest f	- Indiana with Intelligi					
13. Attach as 1	Exhibit No. I	E-4,* map(s) (Se	ctional Aeronautical	14. Attach as Exhibit	No. E-5 a sufficie	nt number of aerial			
charts where	obtainable, p	referably withou	t aeronautical over-	photographs taken in	clear weather at appr	opriate altitudes			
			d shown drawn thereon:	•	he nature of the surro	~			
(a) Duran	pd transmitt	en location and	the radials along	_	proposed transmitter s d so as to show compas	site. The photo- s directions. Photo-			
		er location and graphs have been	the radials along prepared;		t different directions				
- Y	•				nd will be acceptable				
(b) The pr	edicted Grad	le A and Grade B	contours from 12 above;	aerial photographs i Cive date photograph	f'the area can be clea s were taken.	rry snown.			
(c) Scale	of miles.			TILL THE PROPERTY.					
1									
				100					

Broadcast[Application	TELEVISION BROAD	DOCAST ENGINEERING DATA	Section V-C, Page 3						
15. Proposed location of transmi									
State Texas	County	Geographical coordinates (to be the proposed TV antenna structur	determined to nearest second) of						
City or town	Street address								
Big Spring	600 Kentucky Way	North latitude 32° 15′ 16	West longitude 101° 26 Ltl						
How were coordinates determined? Scaled from USGS Topographic Map									
16. Proposed location of main st	india								
State	County	Other studios proposed							
Texas	Howard	None							
City or town	Street address, if known.	Notte							
Big Spring	600 Kentucky Way								
17. State the minimum value of in that will be provided over i	field strength in dbu, predicted in the entire city in which the main	in accordance with the method prese studio is located.	cribed in the Commission's Rules,						
83.3 ďbu	•								
18. (a) Does the proposed transm Commission's Rules?	itter location comply with the min	nimum separation requirements of t	he . Yes X No						
or if other channel sepa- such separations below. coordinates of each anter	rations are proposed that are less (Include existing stations, propo	than the applicable minimum separa s than the applicable minimum sepa- need stations and assignments; the e proposed transmitter location; a	rations plus 10 miles, list location and geographical						
None									
10									
cation is submitted and th	nat I have examined the foregoing	-or Consulting Engineer of the rad statement of technical information	n and that it is true to the						
	contained herein has been obtain	tted provided the engineer's origined is attached hereto.) AL RADIO EQUIPMENT COM							
Data Marramban	By Zoli	ward I Revent	Ma 443 4						
Date <u>November</u>	Edward F	Lorentz	onsulting Engineer						

Broadcast Applicati	on.	FEDERAL	COMMUNI	CATIONS COMMISSION Sect				V-G (Antenna)	
			of applica		daaatis				
	D SITE INFORMATION instruction B				dcastin	_			
(,,,,	Section I)	Addres C/O Rica	s where Radio Spring	Statio	an be reach n KBST	ed in person			
Since this Section is s navigation, it is neces	ubmitted to the Regional Airs	pace Subcommittee	of the Air	Coordinatin	t lommittee fo	r rlearance in comment a must not be incorpor	tion with obstruct	tons to air	
Legal Counsel			• • • • • • • • • • • • • • • • • • • •	τ		or (Check appropriat			
Eugene L. Bu	rke						(77) 		
	ng, Washington	n c			antanna cons ration of ex	truction isting antenna struc	rtures 🗆		
Consulting Engineer		, D. O.	_	c. Chen	ge in locatio	<u> </u>			
	Radio Equipment	Company			2 Peatures of surrounding terrain List any natural formations or existing man-made structures (hills,				
Address	Equipment	- Company		trees, w	ater t ank s, 1	towers, etc.) which,	in the opinion	of the appli-	
	N.W., Washingt	on. D. C.		cant, wo	uld tend to s	shield the antenna f l hazard of the ante	from aircraft and	thereby mini-	
Class of station	Facilities re			-	wid Edition	Parada of the file	A 1 F2.		
Commercial 1		1.32 KW	w 32r	į,		None			
1. Location of ant			- 720	7					
State		y or Town		1					
Texas		ig Spring							
				Submit s	o Tyhihi+ N	b.⊒-Óa chart on	which is slave		
give distance and d	ion (street address) (I irection from, and name	foutside city of nearest tow	limits, n)	the natu	of the ant ral formati	enna site, and alsons and/or the exi	so the relative	Constinunt	
600 Kentu	cky way			listed a	t used shal	l be an Instrument	t Approach Char	t (or the	
	•			landing	chart on re	verse side thereof epending upon pro	f), or a Sectio	nal Aeronauti-	
Constant and in a				landing	areas. 1/	In general, the S	Sectional Aeron	autical Chart	
Geographic coordinates (to be determined to nearest second. For directional antenna give coordinates of center of array.) For single vertical radiator give tower location.					should be used only when the antenna site is more than 10 miles from a landing area or when an Instrument Approach Chart is unobtainable. 1/ These charts may be purchased from the U. S.				
North latitude	West long			Coest an	Coest and Geodetic Survey, Washington 25, D. C. 1/ Exception - Where the proposed antenna site is within the				
32 ° 15 ' 1	6 " 101°		71	boundary	of a landi	ng area for which	no Instrument	Approach Chart.	
		• • •		is available, submit a self-made, large scale map showing anterma site, nrway(s) and existing man-made structures listed above.					
-	stance, and bearing to shed airway within 5 mi					miles, Sou		-	
4. List all landing area from the ar	g areas within 10 miles	of antenna sit	e. Give	distance	and direction	on to the nearest	houndary of eac	ch landing	
(a) Wahh APP	Landing Area		,	٠٠	Distance	•	l no m	2 1	
(b) Hamilton			4	25 miles 247° True 308° True					
				المعلين يرو	<u> </u>	اك	vol mue.		
(6)									
.	antenna system (If dire		. •			•			
Sin ₅ le L	100' gayed stee	l tower s	up por i	ting TV	antenn	a.			
Type KCA T	Type Tr-3D								
Description of town	**								
	No	Ouyed	Y	es		Tubular (Pole)	No		
- 	res should not include	#1		#2	#3	#4	#5	#6	
Height of rediating		انى							
Overall height above		4401							
Overall height above	Overall height above mean sea level 29001								
	Standard, FM, or TV o								
mit as Exhibit to. a horizontal plan for the proposed antenna system, giving heights of the elements above ground and shown their orientation and spacing in feet. Clearly indicate if any towers are existing. Not applicable									
Submit as Exhibit	b. E-7 a vertical plant in feet for all sign	ed total st	ructure (in	cluding supporting portions, noting	g building if a painting and l	any) giving ighting.			
	tenma system designed st tained at the uppermost		ion light	ts may be			Yee X	,a 🗀	
	site the same or immed				[-		30 305		
stations author	tranamitter—antenna site ized by the Commission o	or speci-		Ver C	Date			Dr. 127470 - 0.0	
fied in another	application pending be		ion?	Yes 🗌		DMLERCIAL RA	THE STATE	PiniENT-CO.	
If the answer is "Ye Call		 Tile				Edward	of del	cem -	
letters		urbers			L.C	iwafigrapre lof	GILLS ALEGGA	**************************************	

RADIO ENGINEERING CONSULTANTS

EXHIBIT NO. E-1 (Amended)

Amendment to Application for New Commercial TV Broadcast Station Ch. 4, ERP 1.32 KW (1.22 dbk) @ 328' Big Spring, Texas Big Spring Broadcasting Co.

ENGINEERING STATIMENT

Commercial Radio Equipment Company has been retained by Big Spring Broadcasting Co. to prepare the necessary engineering data to accompany an amendment to its application for a new commercial television broadcast station in Big Spring, Texas (File No. BPCT-17kg). The purpose of this amendment is to bring the application up-to-date by use of the latest equipment ratings as furnished by the manufacturer. This report contains Sections V-C and V-G of FCC Form 301 and the exhibits and information to amend the engineering data now on file with the Commission in TV Engineering Appendix I as follows:

Section V-C of FCC Form 301

Delete forms dated July 30, 1953, and substitute therefor the forms attached hereto dated November 19, 1953.

Section V-G of FGC Form 301

Delete forms dated July 30, 1953, and substitute therefor the form attached hereto dated November 19, 1953.

Exhibit No. E-1

E-1 (Amended) of this report.

Exhibit No. E-4

Delete and substitute Exhibit No. E-4 (Amended) of this report.

There is no change in Exhibits Nos. E-2, E-3, E-5, E-6 and E-7 by this amendment; hence they remain correct and applicable to this application as they now appear.



KANSAS CITY, MO.

Page 2
EXHIBIT NO. E-1 (Amended)

The applicant, Rig Spring Broadcasting Co., by this amendment to its application requests a construction permit for a new television station to operate on VHF Channel 4 (66-72 Mcs) with a visual Effective Radiated Power of 1.32 kilowatts (1.22 dbk) at an antenna height of 328 feet above average terrain.

The applicant proposes to make the TV transmitting and studio installation at a location within the city limits of Rig Spring known as 600 Kentucky Way. The proposed antenna structure will consist of a \$600 ft. guyed steel tower supporting the three-section RCA Type TF-3D VHF TV antenna and will have an overall height of \$\$\text{\$\text{li0}\$}\$ feet above ground (See Exhibit No. E-7 of this report).

The proposed television operation is in full accord with the Table of Assignments and Technical Standards included in Subpart E (Rules Governing Television Broadcast Stations) of Part 3 of the Commission's Rules. Channel h is assigned to Big Spring, Texas, in the Table of Assignments and operation as proposed from the specified transmitter location provides a signal in excess of 7h dbu to all the city of Big Spring.

TOPOGRAPHIC INFORMATION

Topographic maps are not available for all of the area around Rig Spring. Those topo maps which are presently available are shown in Exhibit No. E-2 of this report, with the radials along which Profile Graphs have been prepared shown thereon. Beyond the limits of the topo maps as shown, a study of Sectional Aeronautical Charts of the area indicates that the variation in ground elevation is relatively small. Although the contour intervals as shown on Sectional Charts of the area are in 500 foot levels, a study of this information shows that the variation is less than 500 feet in the area with which we are concerned.

The profile graphs shown in Exhibit No. E-3 of this report have been prepared from the available information as explained above. In view of the relatively level terrain in the Big Spring area, those portions of the radials beyond the available topographic maps have been assumed to be flat and are shown as dashed lines on the Profile Graphs (Exhibit No. E-3).

Exhibit No. E-h, attached to this report, shows the limits of Grade A (68 dbu) and Grade B (h7 dbu) coverage which will be rendered by the proposed operation as determined in accordance with the provisions of Subpart E of Part 3 (Rules Governing Television Broadcast Stations) of the Commission's Rules, using the propagation curves of Figure 5 of Appendix III.



KANSAS CITY, MO.

RADIO ENGINEERING CONSULTANTS

Page 3
EXETRIT NO. E-1 (Amended)

The output of the television transmitters will be determined and maintained by the use of a Dummy Load and RF Wattmeter. Complete data with regard to the variation of the power output of the aural and visual transmitters to maintain the outputs at the values specified in the authorisations have been filed by the manufacturer with the Commission.

All equipment specified herein was selected by the applicant.

COMMERCIAL RADIO EQUIPMENT COMPANY

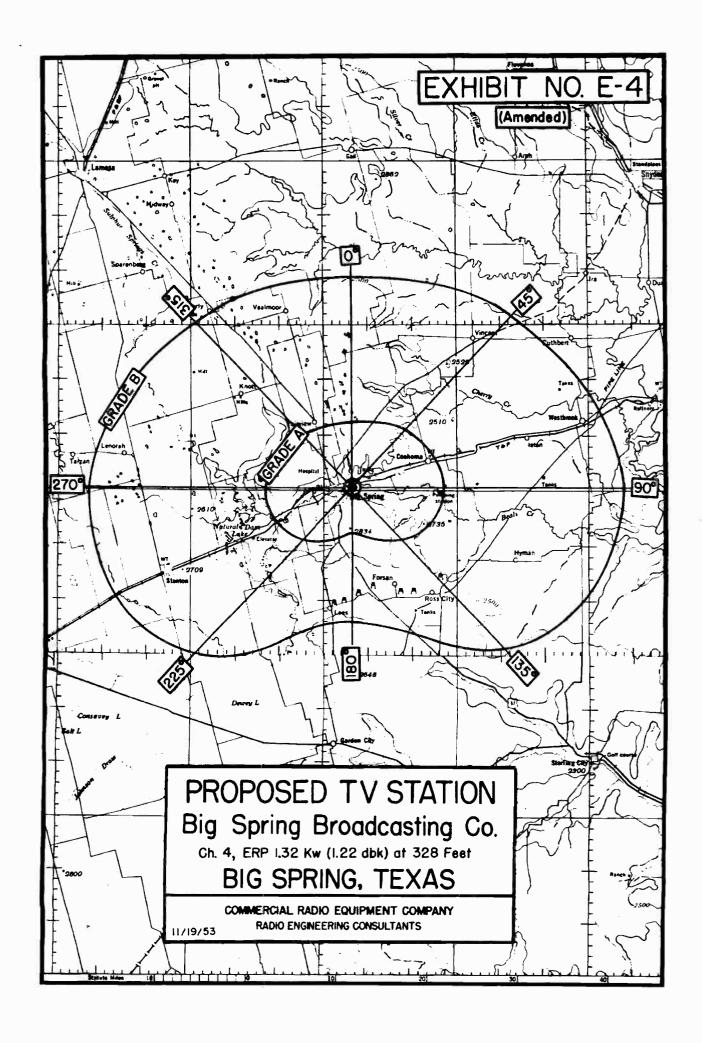
By

Edward F. Lorentz

This report dated: November 19, 1953



KANSAS CITY, MO.



Broadcast Application	Broadcast Application FEDERAL COMMUNIC				ICATIONS COMMISSION Section V-G (Antenna)					
ANTENNA AND SITE INFORMATION	Name of applica				T-17114					
(see instruction B Section I)		-	reached in person	مرس العالم	•					
	Big Spring	, Texas								
Since this Section is submitted to the Regional All navigation, it is necessary that all the data calls	space Subcommittee of the Air Million be supplied. Previous!	'cordinating lormi y and separately (1	ties for Pearance in connecti led data miss not be incorpora	on with obstruct that by reference.	lon: 'O alr					
Legal Counsel Eugene L. Burke			lication (Check appropriate	bax)						
Address Bowen Building, Washington	, D. C.		a construction of existing antenna struct	orues						
Consulting Engineer			aurounding terrain							
Commercial Radio Equipment	. Company	List any natura	al formations or existing marks, towers, etc.) which,	en-mede structu	res (hills,					
Address	an The All	cant, would te	nd to shield the antenna fr	on aircraft and	thereby mini-					
1319 F St., N, Wasningt		ľ	autical hazard of the anten	nė.						
Commercial IV Ch.h. E	equested 6. Ex	(r. ,	None							
1. Location of enterna	1. Je Mi e Jee									
	ty or Town	1 , `	é é ş							
Texas Howard E	is Spring Many									
Exact antenna location (street address) () give distance and direction from, and name	foutside city limits, of nearest town	location of the	ibit Now-Da chart on the antenna site, and also commations and/or the exis	o the relative	ocation of					
600 Kentucky Way		1 landing chart	d shall be an Instrument on reverse side thereof oice depending upon proxi	. or a Sectio	nal Aeronauti-					
		landing areas.	 1/ In general, the Se 	ectional Aeron	autical Chart					
Geographic coordinates (to be determined a For directional anterna give coordinates of For single vertical radiator give tower lo	of center of array.)	from a landing obtainable.	d only when the antenna s g area or when an Instru 1/ These charts may be	ment Approach ourchased from	Chart is un-					
North latitude West long		1/Exception	detic Survey, Washington - Where the proposed ante	ma site is w	ithin the					
32 ° 15 ' 16 " 101 °	26 نيلي	boundary of a landing area for which no Instrument Approach Chart is available, submit a self-made, large scale map showing antenna site, naway(s) and existing man-made structures listed above.								
 Designation, distance, and bearing to nearest established airway within 5 m 	center line of iles		1.25 miles, Sout		apove.					
4. List all landing areas within 10 miles					th landing					
area from the antenna site. <u>Landing Area</u>		_15t9	ince	70 Inue	20.					
(a) Webb AFB (b) Hamilton		.25 miles.	24	70 True	-					
	··· -	1.5 miles 308° True								
(c)										
5. Description of antenna system (If dis Single wood gared stee										
Type F.C.A. Type Tel-3D		_								
Description of tower(s)	<u> </u>									
Self-supporting NO	Ouyed Y	es	Tubular (Pole)	1,0						
Tower (height figures should not include obstruction lighting)	#1	#2 /	#3 #4	#5	#6					
Height of radiating elements	١٥١			 						
Overall height above ground	4401									
Overall height above mean sea level	peration is proposed on	the same multi-	element array (either ex	isting or pro	cosed) sub-					
If a combination of Standard, Fy, or TV operation is protosed on the same multi-element array (either existing or proposed) submit as Exhibit to. a horizontal plan for the proposed antenna system, giving heights of the elements above ground and shown their orientation and spacing in feet. Clearly indicate if any towers are existing.										
Submit as Exhibit No. E-7 a vertical planeights above ground in feet for all sign	n sketch for the propose	ed total structu	re (including supporting	building if a	ny) giving ghting,					
Is the proposed antenna system designed a installed and maintained at the uppermost	point(s)?	ts may be		Yes X	α.					
6. Is the proposed site the same or immed adjoining the transmitter-antenna sit			Date Lovember	19. 1955 19. 1955						
stations authorized by the Commission	or speci-	Yes 🗌 'b 🔀			MEi.T CO.					
fied in another application pending be If the answer is "Yes", give	TOTA THE CHANGESTON		By % 1	A. Lu	ent					
Call	File		Edward of the Lor	stifoz prepar	ing taka					

Broadcast Applicat	ion		FEDERAL COM	MUNIC	ICATIONS COMMISSION Section V-G (Antenna)					
	ND SITE INFORMA	ATION	Name of ap Big Sp	plica rin	m g Broa	dcast	ting C			T-17:49
	Section I)		Address wh c/o Rad Big Spr	io ing	Station Texas	n KBS s	eached 1	n person	an.	<u>u</u>
Since this Section is a navigation, it is necess	submitted to the Regi ssary that all the da	omal Airspa ta called f	are Subcommittee of the or be supplied. Pre	he Air Viously	Coordinating and separat	(Committee	ee for clea d data musi	arance in connect t not be incompara	ion with obstructi	ons to 31r
Legal Counsel Eugene L. B	Рапрове (of appli	cation (C	heck appropriate	box)					
Address				_	a. New :	enterne :	construct	ion	[X]	
Bowen Build		gton,	D. C.		b. Alteration of existing antenna structures c. Change in location					
Commonoi ol			· · · · · · · · · · · · · · · · · · ·		Restures of surrounding terrain List any natural formations or existing man-made structures (hills,					
Commercial 1	mauro equip	ment (company		trees, w	naturai ster tan	. formatica kas. towara	ns or existing m s. etc.) which	en made structu in the opinion (res (hills, of the appli-
Address 1319 F St.,	N.W., Wash	ingto	n, D. C.		trees, water tanks, towers, etc.) which, in the opinion of the appli- cant, would tend to shield the antenna from aircraft and thereby mini- mize the aeronautical hazard of the antenna.					
Class of station	Facili	ties req	lested			~		1 · ·	u .	
Commercial '	IV Ch.4	, ERP	1.32 KW 🖷	32ძ				None '	•	
1. Location of ant	tenna									
State	County	City	or Town							
Texas	Howard	1	g Spring		0.5-7.		H			
Exact antenna locat give distance and d	tion (street addre direction from, s	ess) (If nd name o	outside city limi f nearest town)	ts,	location	of the	e antenna	site, and als	which is plott o the relative sting man-made	location of
600 Kenti	ucky Way				The char landing	t used chart o	n reverse	e side thereof	Approach Char), or a Section imity of the a	nal Aeronauti-
Con-marks annualise					landing	areas.	1/ In /	general, the S	ectional Aeron	sutical Chart
Geographic coordinates For directional ant For single vertical	cenna give coordin	vates of	center of array.)		from a l obtainab	anding le. 1	area or t	when an Instru charts may be	site is more to ment Approach purchased from	Chart is un-
North latitude		st longit			1/Excep	d Geode tion - '	tic Surv Where the	ey, Washington e proposed anto	25, P.C. emnasite is w	ithin the
32 ° 15 ' 3	,,	101	, ,,		boundary of a landing area for which no Instrument Approach Chart is available, submit a self-made, large scale map showing antenna site, namen(s) and existing man-made structures listed above.					
 Designation, di nearest establi 	istance, and bear ished airway with	-						les, Sout		above.
4. List all landir area from the a	ng areas within 16	O miles o	of antenna site.							h landing
	Landing Area			,		Distanc	<u>ce</u>	-1		zo.
(a) Webb AFI (b) Hamilton				4	.25 mi	les			17º True 18º True	
					نتنس ح	98		30	o True	
(c)				-	<u> </u>					
5. Description of	fantenna system	(If direc	tional, give spac	ing a	nd orienta	ition of	f towers)	•		
Sin_le	700, Enheq	steel	tower supp	ort	ing TV	ante	enna.			
	Type TF-3D									
Description of to	**	1	_						• •	
Self-supporting	No		Ouyed	<u>X</u>	es		T	ubular (Pole)	No	
Tower (height figure obstruction		nclude	#1		#2	#3	}	#4	#5	#6
Height of radiating	ng elements		401		-					
Overall height abo	ove ground		կկ01	<u> </u>						
Overall height abo			29001	4 ~=	• ha ======		lamo-+ a-	mar laithan	net ing on account	Air Ibean
mit as Exhibit No.	If a combination of Standard, Fy, or TV operation is proposed on mit as Exhibit No. a horizontal plan for the proposed antenna their orientation and spacing in feet. Clearly indicate if any						neights o	f the elements	nsting or prop above ground pulicable	and showing
Silmit as Frhihit	No E-7 a vertic	าลไกไลก	sketch for the pr	20000	d total st	ructure	e (includ	ing supporting	building if a	ny) giving
heights above ground Is the proposed ar	ntenna system des	lgned so	that obstruction			C CA 131	DE DOIL	POINT INCITED !	Yes [X]	:b 🗀
installed and mair 6. Is the proposed									.∞ لها	· <u></u>
adjoining the	transmitter-anter	ma site	of other				Date	November	19, 1953	
stations author	rized by the Commi r application pend	ission or ling befo	speci- re the Commission?		Yes 🔲	No 🔀			DIO BULL	MENT CO.
If the ensuer is "Yo							By 2	duand	J. Lar	ent
Call		FL	le mere				Edwa	mopre bor	Histoz prepari	ne saya

RADIO ENGINEERING CONSULTANTS

FEDERAL SOLATION OF STATE STATES OF THE STATE OF FEB 23 1954 Office of Secondistri

CONTENTS OF REPORT

CAMPBONE STATES OF THE STATES

988 1 398

Section V-C of FCC Form 301

Exhibit No. E-1 (Amended)

Engineering Statement

Exhibit No. E-3 (Amended)

Profile Graphs

Exhibit No. E-4 (Amended)

Sectional Asronautical Chart showing limits of Grade A and

Grade B service



KANSAS CITY, MO.

Not RE

THE COLVE

amuidal

Broadcast Application	FEDERAL COMMUNI	CATIONS COMMISSION		Section V-C			
TELEVISION BROADCAST ENGINEERING DATA	Name of applicant BIG SPRIN	NG BROADCASTING CO. SECT-172					
1. Purpose of authorization applied	for: (Indicate by check ma	urk)					
(If application is for a new stat: change F is of a character which w feet, answer all paragraphs, other through I, complete only paragraph	vill change coverage or inc rwise complete only paragra	rease the overall height of the phs 2 and 3 and the appropriate	antenna structur other paragraphs	e more than 20 ; for changes G			
A. X Construct a new station B. Change effective radiated power antenna height above average te C. Change transmitter location D. Change frequency E. Approval of site and antendative	ar 1 1954	F. Change antenna system G. Change transmitter H. Install auxiliary or alternate main transmitter I. Other changes (specify) J. Change studio location					
2. Facilities requested		The management of the same					
Frequency	Channel number	4. Transmitters					
rrequarty	CIBRET BRIDEL	(a) Visual Weke	Type No.	Rated power			
66 — 72	ssc. 4	RCA	TT-500A	In dbk:-3.01			
				In low: 0.5			
	enna height above average	(b) Aural	I man a vi	I post a se			
uri e	rain in feet. (Must agree h height given in Para. 12		Type No.	Rated power			
in dok: 1.20	this Section)	RCA	TT-500A				
In low: 1.33 3. (a) Antenna structure	3231	If the above transmitters are		In lor: 0.3			
the immediate vicinity or does it serve to modify the construction of a station, PM broadcast station, televior other class of radio station? If No. complete engineering data to will proposed structure be constructed on the top of an existing structure? If "Yes", describe and give height above	ision broadcast station, "Yes", attach as Exhibit hereon. Yes \(\) No \(\)	Commission's Rules. The showing should include schematic diagrams, makes and types of tubes, operating constants of the last radio stages, full details of frequency control, vestigial sideband filter (if used), multiplex networks and isolation networks. If changes are to be made in a licensed transmitter, include a schematic diagram and give full details of the changes. [c] Describe in Exhibit No.E-1* means which will be used for determining and maintaining power output of the transmitters to the values specified in this application.					
Overall height in feet above ground. (To not include the	Overall height in feet above mean sea level. (Do	5. Modulation monitors					
height of any obstruction light- ing which may be required.)	not include the height of any obstruction lighting which may be required.) 2900	(a) Visual monitor or monitoring equipment. Make RCA Type No. (b) Aural monitor					
		Make		Type No.			
Height of antenna radiation center in 2880	i feet above mean sea level.	6. Prequency monitors	GR 1183-T1				
(b) Antenna data		(a) Visual monitor	•				
Visual	Type No.	Make GR	Type No. 1183-T1	Accuracy On File			
RCA	TF-3D	(b) Aural monitor					
Number of sections	Power gain in db	Make GR	Type No. 1183-T1	Accuracy On File			
3 Section	4.62	 If the above monitors or approved by the F.C.C., inclutechnical description of each 	de as Exhibit No	ment have not been a brief			
Aural (if separate)	Tome No.	8. Transmission line proposed					
Same as Vi	Type No.	from the transmitter (a) Visual					
Number of sections	Power gain in db	Make RCA	Type No. MI-19313	Description Teflon Insu- lated Coax			
Is directional antenna proposed?	Yes	Size (nominal inside trans- verse dimensions) in inches	Length in feet	Power loss in db for this length			
If "Tes", attach as Exhibit to. complete engineering data thereon.		3 1/8"					

Broadcast Appli	cation		TELEVISION BROADCA	ST ENGINEERING DATA Section V-C, Page 2					
	n line (Cont	timed)		10. Will the studios, cameras, microphones, Yes X No					
(b) Aural (if	separate)			and other equipment proposed for trans-					
Make	Same	Type No. as Visual	Description	mission of programs be designed for com- pliance with the Commission's Rules?					
Size (nominal transverse dim inches		Length in feet	Power loss in db for this length	11. (a) Attach as Exhibit No. E-2 a map(s) (topographic when obtainable, such as U. S. Geological Survey quadrangles) for the area within 15 miles of the proposed transmitter location					
9. Proposed op	eration		7.400	and show drawn thereon the following data:					
(a) Visual				 Proposed transmitter location—accurately plotted; 					
Trememitter po (after vestigi band filter, i	al side	Multiplexer loa in db:	Input to trans- mission line in dbk:	 Tremsmitter location and call letters of all known radio stations (except amateur) and the location of known commercial and government receiving stations 					
In dbk: -3. In low: 0.		-0.004	-3.014	within 2 miles of the proposed transmitter location; 3. Proposed location of main studio; 4. Character of the area within 2 miles of proposed					
Transmission line power loss in db:	Antenna in power in di			transmitter location, suitably designated as to residential, business, industrial, and rural nature; 5. At least eight radials each extending to a distance					
	-3.3 6	4.62	In dbk: 1.26 In low: 1.33	of ten or more miles from the proposed transmitter location, one or more of which must extend through the principal city or cities to be served.					
(b) Aural									
Transmitter po	-	Multiplexer loss in db:	Input to trans- mission line in dbk:	(b) Attach as Exhibit No. E_3* profile graphs with reasonably large scales for the radials in (a) (5) above.					
In low: 0.	-	-0.004	-5.234	Each graph shall show the elevation of the antenna radi- ation center. Identify each graph by its bearing from the					
Transmission line power loss in db:	Antenna in power in di		ated power	proposed transmitter location. Direction of true north shall be zero azimuth, with angles measured clockwise. Show source of topographical data on each.					
-0.346	- 5.58	4.62	In dbk: -0.96 In low: 0.802						
and in accords Grade B contou Radial bearing	ince with the irs are those Avera of ra	e procedure present in the absence ge elevation dial (2-10 mi.)	the eight mile distance cribed in the Commission of interference.) Height in feet of antenna radiation center above aver-	between two and ten miles from the proposed transmitter location, n's Rules, supply the following tabulation of data: (Grade A and Effective ra- diated power distance in distance in in radial miles to the					
(degrees tru	sea l		age elevation of radial (2-10 mi.)	direction Grade A (68 dbu) Grade B (47 contour dbu)					
0 45 90 135 180 225 270 315	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2615 feet 2520 2359 2581 2775 2568 2472	265 feet 360 521 299 105 312 408 316	1.26 dbk 7.0 mi. 22 mi. 1.26 8.3 25 1.26 10.0 30 1.26 7.5 23.9 1.26 4.75 14.0 1.26 7.8 24.4 1.26 8.8 27.0 1.26 8.0 25.0					

Antenna height	above avera	ge terrain3	feet (Must t	be identical with Paragraph 2)					
 13. Attach as Exhibit No.E.—] ** map(s) (Sectional Aeronautical charts where obtainable, preferably without aeronautical overlay) of the area proposed to be served and shown drawn thereon: (a) Proposed transmitter location and the radials along which the profile graphs have been prepared; (b) The predicted Grade A and Grade B contours from 12 above; 			at aeronautical over- d shown drawn thereon: the radials along prepared;	14. Attach as Exhibit No. E-5 a sufficient number of aerial photographs taken in clear weather at appropriate altitudes and angles to show the nature of the surrounding terrain in the vicinity of the proposed transmitter site. The photographs must be marked so as to show compass directions. Photographs taken in eight different directions from an elevated position on the ground will be acceptable in lieu of the aerial photographs if the area can be clearly shown.					
(c) Scale		- s and thems D	THE STATE OF THE S	Cive date photographs were taken.					

Broadcast Application	TELEVISION BROAD	CAST ENGINEERING DATA Section V-C, Page 3							
15. Proposed location of transmi									
State TEXAS	County	Geographical coordinates (to be determined to nearest second) of the proposed TV antenna structure.							
City or town	Street address								
BIG SPRING	600 Kentucky Way	North latitude West longitude 101 ° 26 44							
How were coordinates determined? Scale from USGS Topographic Map									
16. Proposed location of main st	tutio								
State	County	Other studios proposed							
*TEXAS	HOWARD	NONE							
City or town	Street address, if known.								
BIG SPRING	600 Kentucky Way								
	field strength in dbu, predicted the entire city in which the main	in accordance with the method prescribed in the Commission's Rules, a studio is located.							
	85 dbu								
18. (a) Dose the proposed trans- Commission's Rules?	mitter location comply with the mi	inimum separation requirements of the Yes X No							
or if other channel separations below. coordinates of each ante	arations are proposed that are les (Include existing stations, prop	than the applicable minimum separation requirement plus 20 miles, as than the applicable minimum separations plus 10 miles, list posed stations and assignments; the location and geographical me proposed transmitter location; and the method used in each							
I certify that I am the Technical Director, Chief Engineer, Of Consulting Engineer of the radio station for which this application is submitted and that I have examined the foregoing statement of technical information and that it is true to the best of my knowledge and belief. (This signature may be omitted provided the engineer's original signed report of the data from which the information contained herein has been obtained is attached hereto.) COMMERCIAL RADIO EQUIPMENT COMPANY									
Date February 19,	1954	des his the first or Consulting Engineer							

RADIO ENGINEERING CONSULTANTS

EXHIBIT NO. E-1 (Amended)

Amendment to Application for New Commercial TV Broadcast Station Ch. 1, ERP 1.33 KW (1.26 dbk) @ 323' Big Spring, Texas Big Spring Broadcasting Co. FEB 20 1904

ENGINEERING STATEMENT

Commercial Radio Equipment Company has been retained by Big Spring Broadcasting Co. to prepare an amendment to its application for a new commercial television broadcast station in Rig Spring, Texas (File No. BFCT-17h9). The purpose of this application is to furnish more complete topographical data and to correct the multiplexer loss to the latest manufacturer's rating. This report contains Section V-C of FCC Form 301 and the exhibits and information to amend the engineering data now on file with the Commission in TV Engineering Appendix II, dated November 19, 1953, as follows:

Section V-C of FGC Form 301

Delete forms dated November 19, 1953, and substitute therefor the forms attached hereto dated

February 19, 1954.

Section V-G of FCC Form 301

Change Facilities Requested to read *Ch. 4,

ERP 1.33 KW A 3231."

Exhibit No. E-1

Delete Exhibit No. E-1 (Amended) dated November 19, 1953, and substitute therefor Exhibit No. E-1 (Amended) attached hereto

dated February 19, 1954.

Exhibit No. E-3

Delete and substitute Exhibit No. E-3 (Amended)

of this report.

Exhibit No. E-4

Delete and substitute Exhibit No. E-4 (Amended)

of this report.

There is no change in Exhibits Nos. E-2, E-5, E-6, and E-7 by this amendment; hence, they remain correct and applicable to this application as they now appear.

The applicant, Big Spring Broadcasting Co., by this amendment to its application requests a construction permit for a new television station to operate on VHF Channel 4 (66-72 Mcs) with a visual Effective Radiated Power of 1.33 kilowatts (1.26 dbk) at an antenna height of 323 feet above average terrain.

The applicant proposes to make the TV transmitting and studio installation at a location within the city limits of Big Spring known as 600 Kentucky Way. The proposed antenna structure will consist of a 400 foot guyed steel tower supporting the three-section RCA Type TF-3D VHF TV antenna and will have an overall height above ground of 440 feet (See Exhibit No. E-7).

RADIO ENGINEERING CONSULTANTS

Page 2 EXHIBIT NO. E-1 (Amended)

The proposed television operation is in full accord with the Table of Assignments and Technical Standards included in Subpart E (Rules Governing Television Broadcast Stations) of Part 3 of the Commission's Rules. Channel 4 is assigned to Big Spring, Texas, in the Table of Assignments, and operation as proposed from the specified transmitter location provides a signal in excess of 74 dbu to all the city of Big Spring.

Topographic Information

Topographic maps are not available for all of the area around Big Spring. Those topo maps which are presently available are shown on Exhibit No. E-2 of this report, with the radials along which Profile Graphs have been prepared shown thereon. Beyond the limits of the topo maps shown, a study of Sectional Aeronautical Charts of the area indicates that the variation in ground elevation is relatively small. Although the contour intervals as shown on Sectional Charts are in 500 foot levels, a study of this information shows that the variation is less than 500 feet in the area with which we are concerned.

The profile graphs shown in Exhibit No. E-3 (Amended) of this report have been prepared from the available information as explained above. In the directions of 270° and 315° True beyond the limits of the topo maps, all available information contained on Sectional Aeronautical Charts was used in completing the profile graphs.

Exhibit No. E-4 (Amended) attached to this report, shows the limits of Grade A (68 dbu) and Grade B (47 dbu) coverage which will be rendered by the proposed operation as determined in accordance with the provisions of Subpart 3 of Part 3 of the Commission's Rules, using propagation curves of Figure 5 of Appendix III.

The output of the television transmitters will be determined and maintained by the use of a Dummy Load and RF Wattmeter. Complete data with regard to the variation of the power output of the aural and visual transmitters to maintain the outputs at the values specified in the authorizations have been filed with the Commission by the manufacturer.

All equipment specified herein was selected by the applicant.

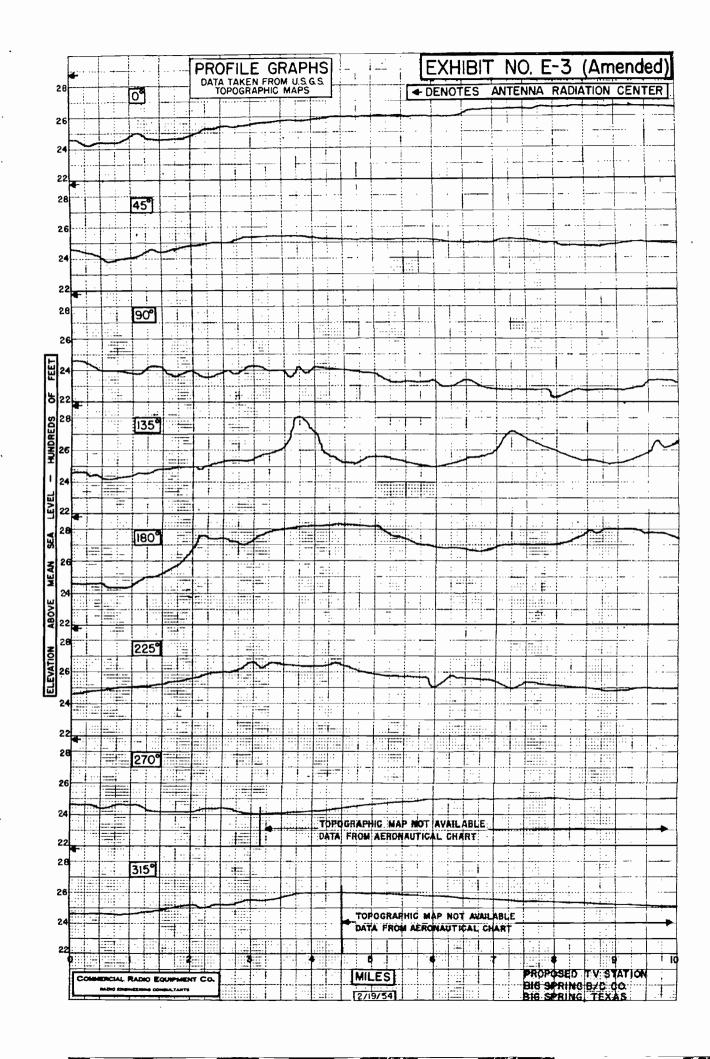
COMMERCIAL RADIO EQUIPMENT COMPANY

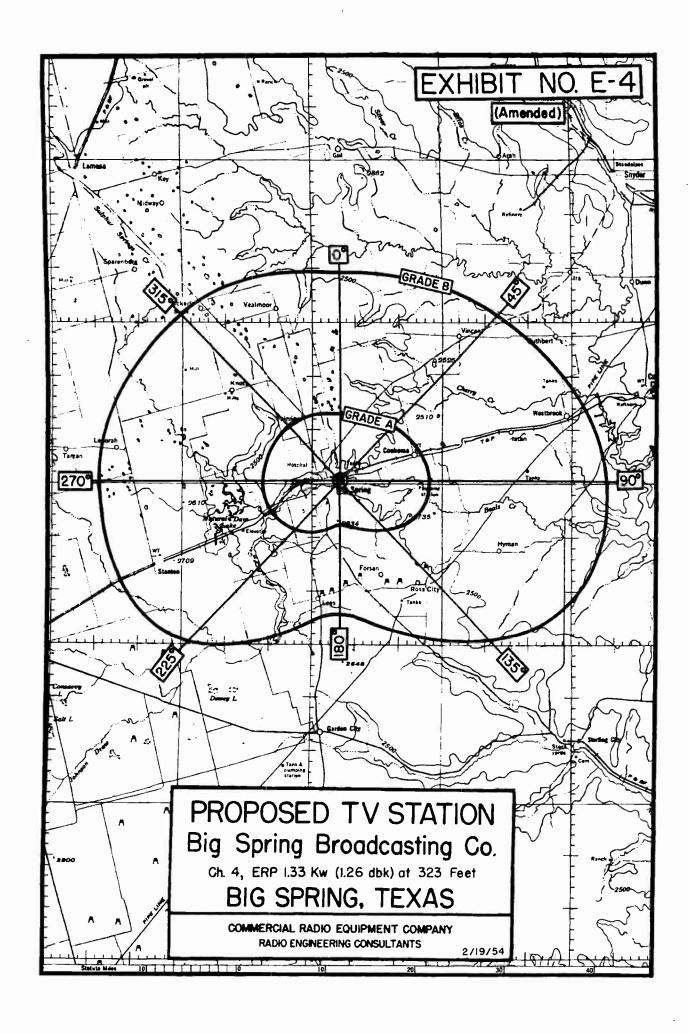
By Edward F. herent Edward F. Lorents

This report dated: February 19, 1954



KANSAS CITY, MO.





COMMERCIAL RADIO EQUIPMENT COMPANY RADIO ENGINEERING CONSULTANTS

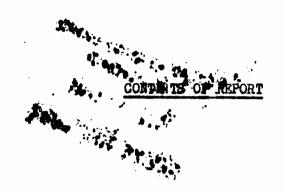
TV ENGINEERING APPENDIX IV

Application for Modification of Construction Permit KBST-TV Channel 4, ERP 5.14 KW at 323 Feet Big Spring, Texas

Big Spring Broadcasting Co. February 1955



RADIO ENGINEERING CONSULTANTS



Section V-C of FCC Form 301

Statement in lieu of Section V-G of FCC Form 301

Engineering Statement

Portion of a Sectional Aeronautical Chart showing proposed 7h dbu, Grade A and Grade B contours

Exhibit No. E-1

Exhibit No. E-2



Not Pet.

5 Sol 3/1/55 EMPET 2952

Broadcast Application	FEDERAL COMMUNICA	ATIONS COMMISSION			Section V-C			
TELEVISION BROADCA	TELEVISION BROADCAST Name of applicant			, , ,				
ENGINEERING DATA	\	ב	are sprine m	roadcasting Jo.				
1. Purpose of authorization	applied for:	(Ind	icate by check mark)			·	
(If application is for a	new station or	for	any of the changes	numbered B through D.	complete all) paragra	uphs of this form; if	
change E is of a charact	er which will	chan	ge coverage or incr	ease the overall height	of the ante	enna stru	octure more than 20 feet	
answer all paragraphs, o	-						4.5	
complete only paragraph	2 ann une appr	opri	ate otner paragrann	s; ior change J, comple	te only par	agraphs 2	2, 5 and 16(b).	
A. Construct a new station	n		Coper	F. Construct or c	hange auxil	iary ante	enna system	
B. X Change effective radia	ted power or		**	G. X Change transmi	tter			
anterma height above a	verage terrain		E AF	'H• ☐ Install auxili				
C. Change transmitter loc	ation		•	main transmitt				
D. Change frequency	•		-	1 Other changes	(specify)	(BPJT-	-1749, as amen-	
E. Change antenna system				J. Change studio	location (ded an	id granted)	
2 Facilities requested			 ·	7. (a) Antenna struc	ture			
Frequency			1	Is the proposed construc	tion in the in	nmediate	Yes No X	
	Charme!	No.	4	vicinity of any other radi				
66 72	Mc.			proposed transmitting an any other radio station?				
B I	ffective Radia	ted	Antenna height	engineering data showing				
(visual)	Power (aural)		above average	Will proposed structure b				
In dbk: 7.11	n dbk: 4.1i	1	terrain	top of a building? If "Y			Yes No X	
	in low: 2.57		323 feet	of building (distance fro	m ground to b	ase of pro	oposed structure) in feet.	
3. Station location (princi			reet	Overail beight in feet ab	_	Overali i	height in feet above mean	
State	City or			(Do not include the beig	•	ľ	l. (Do not include the	
Texas	Bi	LE I	Spring	obstruction lighting which required.)	n may be	-	f any obstruction lighting any be required.)	
4- Transmitter location			<u> </u>	1110]	2900	
State	County			1			- -	
Texas	i l	low	ard	Height of antenna radiation center			o Change)	
City or town	Street Ad	dress	(or other identifi-	~		<i>x</i> -1	2080 feet	
	cation)			Geographical coordina	tes of ante	nna (to i	nearest second)	
Big Spring	600 1	(en	tucky Way	North latitude		West lon	gitude	
5. Main studio location				32 15	16	10	26 山	
State	County		_	How were coordinates From data already on file.				
Texas		į	Howard	determined? No change in site.				
City or town	Street add	iress		Indicate by check mar	k thé			
	ľ			zone in which structu	re is	1	2 X 3	
Big Spring	600 K	ent	ucky Way	(b) Antenna data No Change				
6. Transmitters	L			VISUAL				
Visual		_		Make			Type No.	
Make	Type No.		ed power	RCA			TF-3D	
PCA .	TT-2AL		dbk: 3.01	1)-	
	1	In	kw: 2.0	Number of sections	Rated imp	•	Power gain in db	
Aural	Type No.	Rate	ed Power	3	in đ	bk		
RCA	1		fbk: (),()	,	13.3	9	4.62	
nox	TT-2AL	In l	or: 1.0	Aural (1f separate)				
If the above transmitters are com	posite or of type	s for	which data have not	Make			Type No.	
been filed with the F.C.C., attac			a complete	Same as	ised			
showing of transmitter details in					4504			
The showing should include sche operating constants of the last ra				Number of sections	Rated inpu	t power	Power gain in db	
operating constants of the last radio stages, full details of frequency con- trol, vestigial sideband filter (if used), multiplex networks and isolation			for vis	tnott רבי)k			
-networks. If changes are to be made in a licensed transmitter, include a				101 115	ie.T			
schematic diagram and give full details of the changes. UN 111e				If directional antenna	is proposed	d, give f	Aull details including	
(a) Describe in Exhibit No.E-1 means which will be used for determining and maintaining power output of the transmitters to the values				horizontal and vertical			•	
mining and maintaining power out specified in this application.	S to the values	Not pertinent	•	•	xhibit No.			
T2		Is electrical or mechan		tilting	Yes No X			
(b) Multiplexer: Make	CA		_ Type No MI-19390	proposed? If so, desci			t No.	
10			14.11イング	including horizontal ar				
Rated imput power 10	dbk			Will antenna be altered to provide null fill-in? Yes No X				
oal.		Or	1), -	If yes, describe fully	in Exhibit	No.		
Rated loss: Visual OUL db Aural OUL db				If yes, describe fully in Exhibit No.				

TELEVISION BROADCAST ENGINEERING DATA Section V-C, Page								ion V-C, Page 2			
N. Transmission line proposed to supply power to the antenna from						the transmitter					
(n) Visual						(b) Aural (if se	marate)				
Make		Type No.	1		imput power	Make		Type s	in.	Rated imput power	
RCA		MI-	1	jin n£bk	17.16	S				in d	DK
		19113			17.16	Same as used				<u> </u>	
Size (nominal transverse dim		Irreguli ir	n feet	Power loss in db for this length		Size (nominal transverse di	-	Lengti	in feet	1 -	rloss in 615 for length
in inches	PISTORS)			ior ui	is ingui	in inches	mision			uns	1er Krit
3_	النا/ز	450			•516	¢	T				
	<u> </u>	4,70				for v	isuai	<u> </u>		1	
9. Proposed opera	ition										
(a) Visual				-		(b) Aural		·			<u> </u>
Transmitter po			lexer lo db:		put to trans- ssion line in	Transmitter ; output	xxer	1	plexer los in db:	is	Imput to trans- mission line in
(after vestigi		- "	110.		dbk:	oughut				{	dbk:
In disk: 3.0	_					In dbk: ∪.∪			nov.		Out
In km: 2.0			004		3.006	In low: 1.0		۱ ۱	.00 ₄	1	004
		┸		L_	T			1		1	1
Transmission line nower	Antenna in nower in d	-	n Annedi In diction		Effective radi- ated power	Transmission line power	Antenna nower in		Antenna po gain in di		Effective radi- ated power
loss in db;		ok.		٠.	Aced Japan	loss in db:	(wer in	UDR.	gan. III u	υ.	nted power
					In dbk: 7.11						In dbk:4.10
•516	2.45	1	4.62		In to: 5.14	•516	- • 5	52	4.62		In low: 2.57
					111 KW: 34-24		<u> </u>		l		In kw: ==>1
No todulation m						14. (a) Attach					s) (topographic ervey quadrangles)
(a) Visual moni	tor or moni	toring eq	รูบรักษาเ	$\neg \neg$							transmitter lo-
) Inke	- No Ch	ange _		Type	P No.	cation and shoe	drawn ti	ereon	the follow	ring d	
		ange -	-		_	On file - See BrCT-1749 1. Promosed transmitter location—accurately plotted: 2. Transmitter location and call letters of all known					
(b) Aural monit	or				-						
linke	- ilo Ch	ance -		יונד	e No.		radio stations (excent anateur) and the location of known commercial and government receiving stations				
		arre c		<u> </u>		within 2 mi					
11. Frequency mo						 3. Character of the area within 2 miles of proposed transmitter location, suitably designated as to residential, business, industrial, and rural nature: 4. At least eight radials each extending to a distance of 					
(a) Visual moni	tor										
Make	- No C	hange	e Mo.	Acc	uracy						
i						ten or more miles from the proposed transmitter location,					
(b) Aural monit	or	T_		Т.		one or more of which must extend through the principal city to be served. On file - 1.0 change					
Make	No Cha	ange -	e <u>No.</u>	VCC.	uracy	in site proposed.					
iz. If the above					have not been a brief	On tile	- no s	ite	change	nrofi	le granks with
technical descr		_		char		reasonably large scales for the radials in (a) (5) above.					
					-E-C	Each graph shall show the elevation of the antenna radi-					
and other equip				,	Yes X No	ation center. Identify each grank by its bearing from the promosed transmitter location. Direction of true north					
mission of prog	rams be des	igned for	com-			shall be zero a	zimuth. •	ith an	gles measu	red c	
nliance with the	· Commissio	n's Aules	₹?			Show source of	tonogranh	ical d	ata on eac	h.	
				-		between two and ter			•		•
nuo in accordan		procedur erage elevatio			in the Commission in feet of ancenna	n's Bules, supply the Effective radiated	ne Tollow	ing tab Predicu		data	A: Predicted
Radial bearing	ol ra	idial (2-10 mi ret above mea	i.)	radiat.	ion center above re elevation of	power in radial direction		tance in		4	intence in miles
(degrees true)		sea level		radii	at (2-10 mi.)			CORCOR	dbu)		contour
⁰ 0		-	eet		65 reet	7.11 dbk	9	• <u>B</u>	. mi•		28.5 abu)
45		520			60	7.11	.11	• Ö			33.0
90	_	359			21	7.11	13.	•.7			36.2
135	2	501			99	7.11	10	• 4			30.6
180	2	112			<u>05</u>	1.1.1.	6	-			20.1
		568			12	7.•11	.10.				31.6
270		472 54)			<u>) </u>	7.11	12	-	•		35.1
315	2.	564		3.	16		.10.	. 5			317
Avern		57									
Olbeital over princ		-		3			D				
Antenna height ab	ove average	· terrain	_32		Too't (lass)	be identical with	Paragraph	12)			

Broadcast Application TELEVISION BROADCAS	T ENGINEERING DATA Section V-C, Page 3
16. Attach as Exhibit No. E-2 map(s) (Sectional Aeronautical charts where obtainable, preferably without aeronautical overlay) of the area proposed to be served and shown drawn thereon: (a) Proposed transmitter location and the radials along which the profile graphs have been prepared; (b) The studio location and boundaries of the principal community; No Change in site or studio (c) The predicted Grade A and Grade B contours from 12 locabove; (d) The required minimum field strength contour; (e) Scale of miles.	No change in site - Photos on file
18. Will the minimum required value of field strength predicted be provided over the entire principal community proposed to be	
to 'will the main studie he legated within the limits of the art	Yes X No
19. Will the main studio be located within the limits of the pri community proposed to be served. (No change	proposed) Yes 🔀 🕉 🗌
20. (a) Does the proposed transmitter location comply with the m the Commission's Rules? (NOTE: Site already	inimum separation requirements of approved by FCC) Yes No
(b) If any co-channel separations are proposed that are less or if other channel separations are proposed that are le such separations below. (Include existing stations, pro- the location and geographical coordinates of each antenn	than the applicable minimum separation requirement plus 20 miles, so than the applicable minimum separations plus 10 miles, list posed stations and cities which appear in the table of assignments; a, proposed antenna or reference point as approximate; the distance method used in each instance to measure the distance.) If none, so
Not pertinent - this is ar	existing Cr - site
separations already approv	'ed•
21. If this is an application for modification of construction	•
2) Land lease deal has been signed and 3) Final architects' building plans hav 4) CBS Secondary Market rlan contract h 5) Tower bids from all major tower compaward is about to be made.	been accomplished: and land use for studio-transmitter has on. paid for. e been submitted. as been signed. anies have been received and final
the grant of this application.	l be completed within 150 days after consulting Engineer of the radio station for which this appli-
cation is submitted and that I have examined the foregoing s of my knowledge and belief. (This signature may be omitted; which the information contained herein has been obtained is	tatement of technical information and that it is true to the best provided the engineer's original signed report of the data from
Date February 23, 1955	and h reclaim

RADIO ENGINEERING CONSULTANTS

STATEMENT IN LIEU OF SECTION V-G OF FCC FORM 301

The applicant proposes no changes in either the height or location of the antenna system by this application from that already authorized in Construction Permit, File No. BPCT-1749.

Section V-G of FCC Form 301 is therefore not believed applicable to this application and none is submitted herewith.

February 23, 1955



RADIO ENGINEERING CONSULTANTS

RXHIBIT NO. E-1

Application for Modification of Construction Permit KBST-TV Big Spring, Texas Channel 4, - ERP 5.14 KW @ 323 Feet

ENGINEERING STATEMENT

Commercial Radio Equipment Company has been retained by the Rig Spring Broadcasting Company, permittee of TV Station KBST-TV, to prepare the necessary engineering data to accompany their application for modification of construction permit to change type transmitter and increase the effective radiated power. This report contains Section V-C of FCC Form 301 and the data and exhibits required thereby. A statement is submitted in lieu of Section V-O of FCC Form 301.

The applicant, by this application for modification of the KEST-TV Construction Permit, requests a change from a 500 watt transmitter to a 2 NN transmitter which will result in operation on Channel 4 with an Effective Radiated Power of 5.14 kilowatts at an antenna height of 323 feet above average terrain.

Since no change is proposed in antenna height or in its location, certain of the information requested by Section V-C of FCC Form 301 is already on file with the Commission. In such cases, the pertinent item in Section V-C is answered "No Change" or "On File". This indicates that reference should be made to the engineering data included with application File No. EPCT-17k9, as amended for the information or exhibit requested.

Exhibit No. 8-2 of this report shows the limits of Grade A and Grade B coverage which will be provided by KBST-TV, operating as proposed. The entire city of Big Spring will be well within the proposed 74 dbu contour, which is also shown. The distances to the contours were determined in accordance with the provisions of Subpart 3 of Fart 3 of the Commission's Rules, using the propagation curves of Figure 5 of Appendix III.

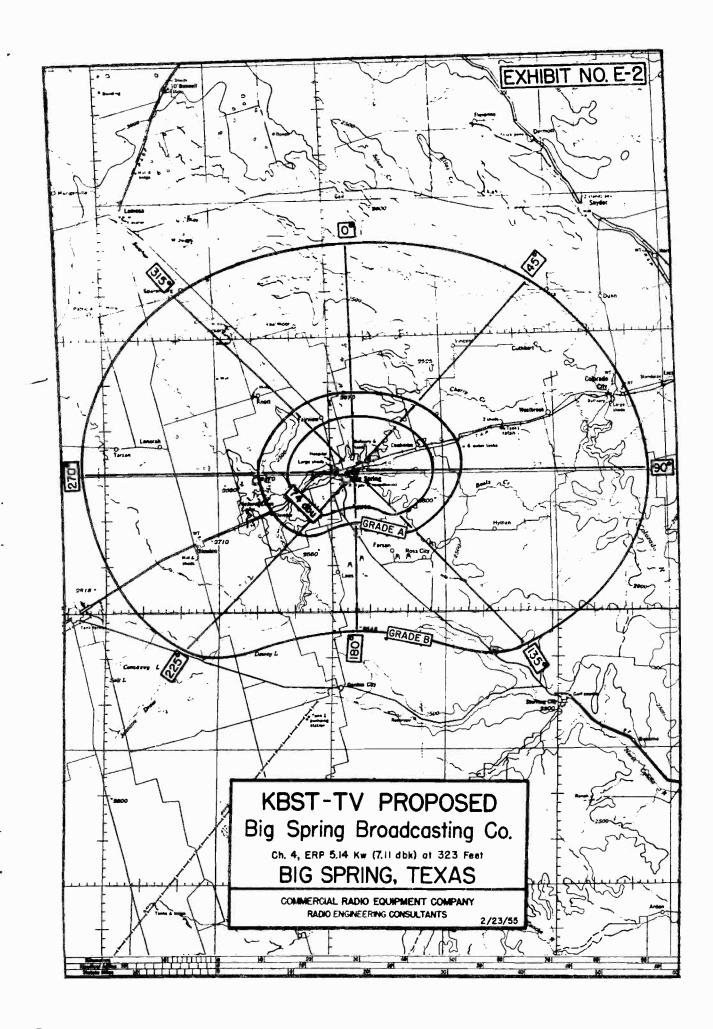
The output of the television transmitters will be determined and maintained by the use of a dummy load and RF Wattmeter. Complete data with regard to the power output of the aural and visual transmitters to maintain the outputs at the values specified in the authorisations have been filed with the Commission by the manufacturer.

COMMERCIAL RALIU BUUIPMENT COMPANY

verett L. Milard

This report dated: February 23, 1955 KANSAS CITY, MO.

CCVRAC



RADIO ENGINEERING CONSULTANTS

BMPET-3267

BROADCAST FACILITIES DIVISION (TV)

JUL 20 1955

BROADCAST BUREAU

TV ENGINEERING APPENDIX V

Application for Modification of Construction Permit Ch. 4, ERP 12.75 KW (11.06 dbk) @ 380 Big Spring, Texas (BPCT-2952, as granted)

Big Spring Television, Inc. July 1955





RADIO ENGINEERING CONSULTANTS



TABLE OF CONTENTS

Section V-C of FCC Form 301

Section V-G of FCC Form 301

Engineering Statement

Map showing 74 dbu, Grade A and

Grade B contours.

Instrument Approach Chart

Vertical Plan Sketch

July 15, 1955

Exhibit No. E-1

Exhibit No. E-2

Exhibit No. E-3

Exhibit No. E-4



Broadcast Application PEDERAL COMMUNICATIONS COMMISSION Section V-C

Broadcast Application				PEDERAL COMMUNICA	TIONS CONTINUESTON			Section V-C	
TELEVISION BROAT ENGINEERING D				Big Spring Television, Inc.					
1. Purpose of authorization	n appli	ed for:	(Ind	icate by check mark))			-	
(If application is for	a new 5	itation or	for	any of the changes	numbered B through D, o	omplete al	l paragra	phs of this form; if	
change E is of a chara	cter, wh	ich will	char	ge coverage or incre	ease the overall height nd 7 and the appropriate	of the ant	erma stru	cture more than 20 feet,	
answer all paragraphs,	ouners on o and	the amor	ece mr:	only paragrapses 2 as	s; for change J, complet	e only par	agraphs 2	. 5 and 16(b).	
		- шк црр.	٠,٠,٠		F. Construct or d				
A. Construct a new stat						•	rery arice	IBIG SYSUM	
B. X Change effective rad antenna height above					G. X Change transmitter H. Install auxiliary or alternate				
C. Change transmitter 1	ocation	· I			main transmitter				
D. Change frequency					I. D Other changes	(specify)			
E. X Change antenna syste	•				J. Change studio	location			
2. Facilities requested					7. (a) Antenna struct	ni.e			
Frequency		1).	is the proposed construct			Yes No X	
66 — 72)	Channel	No.	4	vicinity of any other radio				
	<u>Mc•</u>	1			proposed transmitting antenna be supported by the antenna structure of any other radio station? If "Yes", attach as Exhibit No. complete				
Effective Radiated Power (visual)		ive Radia (aural)	ted	Antenna height above average	engineering data showing	details and	effect upon	other station.	
				terrain	Will proposed structure be			Yes No 🔀	
In dbk: 11.06		:8.382	?	. 0.0	top of a building? If "Ye of building (distance from		-		
In low: 12.75 3. Station location (print		6.38		380 feet	Overall height in feet abo			eight in feet above mean	
State Station location (prin		City or t	OWI		(Do not include the heigh	-	sea level	. (Do not include the	
Texas		Big S	pr	i nø	obstruction lighting whic required.)	h may be	1	any obstruction lighting y be required.)	
4. Transmitter location			<u> </u>		,		wanca	y on required.)	
State		County			1 497 '			2957 '	
Texas		Howar	ď		Height of antenna radi	ation cent			
City or town	s	treet Add	iress(or other identifi-		in feet above mean sea level. 2937' feet				
Dia Comina	c	ation)	2 10		Geographical coordinates of antenna (to nearest second) North latitude hest longitude				
Big Spring		000 k	Kentucky Way						
5. Main studio location						16		01 26 44	
State Texas	6	ounty Howar	ه.		How were coordinates From data already on file.				
16xas		nowan	u		No change in site.				
City or town	S	treet add	ress	•	zone in which structur		1	2 x 3 🗌	
Big Spring		600 K	en	tucky Way	located.				
					(b) Antenna data Visual				
6- Transmitters Visual		<u> </u>	-		Make			Type No.	
Make	Ty	pe No.	Rat	ed power	(PP			mm (0 0	
GE	T	T-10-A	In	dbk:6.99	GE			TY-60-C	
		1-TO-1		ke: 5.0	Number of sections	Rated imp	it power	Power gain in db	
Aural	170	pe No.	Rat	ed Power		in d	•		
	1 1	•	l In	dbk: /1.37	3	16.99	5	4.62	
GE	T'	T-10-A	In	ke: 2.7	Aural (if separate)				
If the above transmitters are o	omposit	e or of type	es fo	which data have not	Make			Type No.	
been filed with the F.C.C., at				a complete	Same as	for vi	lens		
showing of transmitter details The showing should include a							Juar		
operating constants of the less		-		•	Number of sections	Rated imp		Power gain in db	
trol, vestigial sideband filter networks. If changes are to b						in di	DK		
schematic diagram and give fu				· ·					
(a) Describe in Exhibit No. E	_l	ans which	wili	be used for deter-	If directional antenna			_	
mining and maintaining power					horizontal and vertica Not applica	l plane rad			
specified in this application.				PY-	Is electrical or mecha			xhibit No.	
(b) Multiplexer: Make	GB		_	Type No. 16-B	proposed? If so, desc			lt No. Yes ☐ No. 😿	
- /	00				including horizontal and pertinent vertical radiation patterns.				
Rated input power 16,99 dbk				Will antenna be altered to provide null fill-in? Yes No					
Rated loss; Visual • Q	u6 -	Aural	. (nn8 -	If yes, describe fully in Exhibit No.				
Rated loss: Visual LV	<u></u> ab	Aural	-25	_ qp	,				

		•	TELE	VISION BROADCAS	T ENGINEERING DAT	A			Sec	tion V-C, Page 2
8. Transmission line prop	osed to	supply por	ér to	the antenna from	om the transmitter					
(a) Visual	,				(b) Aural (if separate)					
Andre	Type :	Mr.		imput power	Make		Туре	No.		input power
Communication	har	-506	in dbi	_	Sama as Coloseda		mal -	in d	bk	
Products	101-	-500		16.8	Same as for visual					
Size (nominal inside	Lengt	h in feet	Power	loss in db	Size (nominal inside Length in feet Power los			r loss in do for		
transverse dimensions)			for this length		transverse dimension)		this length			length
in inches	ـ ا	• • •		-1 n	in inches		1			
3 - 1/ 8"	<u>ا</u> ا	10'	•54 db		i					
9. Proposed operation										
(a) Visual					(b) Aural					
Transmitter power outpu	. 1,5,1	tiplexer lo		put to trans-	Transmitter power Multiplexer loss Imput to transmit					Tomat As Asses
(after vestigial side-	. ****	in do:		ission line in	output		in db:		mission line in	
band filter, if used)	- }			ďbk:			l			dbk;
In dbk: 6.99	- 1		1		In dbk: 4.3	1		000	- 1	1 200
In ka: 5.0006		.006	6.984		In kw: 2.7		008 4.5		4.302	
	L		<u>_</u>		·		<u> </u>			·
Transmission Antenna i		Antenna ro		Effective radi-	Transmission	Antenna :		Antenna no		Effective radi-
line nower nower in loss in db:	dbk;	gain in d):	ated power .	line nower	nower in	dbk:	gain in dh):	ated power
				In dbk11.06						In dbk:8.382
54 6.44	1/1	4.6	2			3.762)	L.62		
		<u> </u>		In ke; 12.75	- •)4	J+102		4.02		In kw: 6.38
No. Nodulation monitors					14. (a) Attach a	s Exhibit	No.		mato (s) (topographic
(a) Visual monitor or mos	itoring	equinment								rvey quadrangles)
Make			יידנד	No. TV-54A						transmitter lo-
GE				M −8C	cation and show					
(b) Aural monitor					On file - no change in site. 1. Proposed transmitter location—accurately plotted; 2. Transmitter location and call letters of all known radio stations (except amateur) and the location of					
Make		_	Tom							
GE			l''T	No. N-12-A	known commer	-				·
					within 2 mil		-		-	
11. Frequency monitors					3. Character of					
(a) Visual monitor	1.		<u></u>		business, ir		-			residential,
Make GE		Type No.		uracy	4. At least eig					distance of
		<u>Y-12-A</u>	0	n file	ten or more	miles fro	m the	proposed to	ransm	itter location,
(b) Aural monitor			1		one or more city to be s		must e	xtend thro	ugh t	he principal
Make	1	lype No.	1 .	uracy	erty to be s	HEVMI.				
GE		<u>'H-12-A</u>		n file	<u> </u>		_,		• •	
12. If the above monitors					On file			_		
approved by the F.C.C., i	nclude eech -	as Exhibit	NO.	a brief	(b) Attach					le graphs with
technical description of	Tacin I	lata on	rii	.e	Each graph shall					
13. Will the studios, came				· C ·- C	ation center.					
and other equipment propo				Yes 🔽 No 🗌	proposed transm					
mission of programs be de pliance with the Commiss:	.,				shall be zero a Show source of					10CKW1Se.
			bo c4 !	he11	<u> </u>					
15. From the profile graph and in accordance with the										
	verage clo	201189	Height	in feet of amenon	Effective radiated		Predict	ed		Predicted
Radial of	radial (2-	(Omi.) cocan	24618	tion center above ge elevation of	power in radial direction	dia 10	tance in the Gen			listance in miles to the Grade B (),7
(degires time)	sea lev		rad	inl (2-10 mi.)	22.04	_	CORRORE	,00	avu.	contour (4)
<u>0</u> 0	2615	feet	3	22 feet	11.06 dbk	1	2.5	mi •		30.0 mi. °
45	2520.		4	17	11.06		5.4.			41.3
90	2359	••••	5	78	11.06	1	0.0			46.5
135	2581		3	56	11.06	1	4.4			38.4
180	2775		1	.62	11.06	(8.0	4		28.5
25	2568		3	69	11.06	1	1-8			40.0
270	2472		<u>1</u>	65	11.06	1	5.JL			43.2
315	2564	****	3	73	11.06	1	1.8			40.0
(*)										
	2557									
*Radial over principal com		f not incl	uded a	bove. Do not in	clude in average.					
Antenna height above aver		3	80		t be identical with	Paragran	h 2)			

Big Spring Television, Inc.

Broadcast Application	TELEVISION BROADCAS	T ENGINEERING DATA	Section V-C, Page 3
charts where obtainable, pr lay) of the area proposed t (a) Proposed transmitter which the profile gr (b) The studio location community; (c) The predicted Grade above;	map(s) (Sectional Aeronautical referably without aeronautical over- to be served and shown drawn thereon: location and the radials along raphs have been prepared; and boundaries of the principal A and Grade B contours from 12 field strength contour;	17. Attach as Exhibit No. photographs taken in clear weather and angles to show the nature of it the vicinity of the proposed transgraphs must be marked so as to she graphs taken in eight different diposition on the ground will be accaerial photographs if the area car Give date photographs were taken. No change in site - Pl	the surrounding terrain in mitter site. The photo- we compass directions. Photo- irections from an elevated ceptable in lieu of the in be clearly shown.
·	ed value of field strength predicted principal community proposed to be	in accordance with the method prescrib served?	oed in the Commission's Bules,
			Yes 💂 🗡 🗌
19. Will the main studio be community proposed to be se	located within the limits of the princerved. (No change	proposed)	Yes 🗶 😘 🔲
2). (a) Does the proposed to the Commission's Rul	ransmitter location comply with the m les? (Note: Site alread	inimum separation requirements of iy approved by FCC)	Yes 😱 🔭 ho 🗀
or if other channel such sevarations be the location and geo	separations are proposed that are le low. (Include existing stations, pro- ngraphical coordinates of each antenn	than the applicable minimum separations than the applicable minimum separations and cities which appear as a proposed antenna or reference point method used in each instance to measure	tions plus he miles, list r in the table of assignments; t as appropriate; the distance
h	t pertinent - this is ar parations already approv		
construction and indicate Se		n will be completed. BMPCT-2920, BMPCT-2952 ion can be completed wit	
cation is submitted and	i that I have examined the toregoing a lief. (This signature may be omitted contained herein has been obtained is	sate Consulting Engineer of the radio statement of technical information and provided the engineer's original sign attached hereto.) COMMERCIAL RADIO 1 By	

Broadcast Application FEDERAL COMMUNICATIONS COMMISSION Yame of applicant	000	-5 Arterna
ANTENNA AND SITE INFORMATION Big Spring Television, Inc.	_	
(see instruction B Section I) Address where applicant can be reached in person C/O Radio Station RBST	Ĭ	
Big Spring, Texas		
office this section is submitted to the Regional Airppass Suppossibles of the Sim Coordinating Committee for Seamans in common payleading, it is necessary that all the data called for be supplied. Previously and Separately filed total must not be incomp	nima alia masimumio	ur (1 11-
Regal Counsel Repose of spolication (Check sporoprie		
Eugene L. Burke	(23)	
Address Bowen Building, Washington, D. C. b. Alteration of exting anterna str	uctures 🛄	
C. (Hage It Dualte)		
The management of the state of	z man-made structur	res ihille.
trees, water tanks, towers, etc.) which	h, in the opinion o	of the appli-
International Bldg., Washington, D. C. cant, would tend to shield the enternational research of		thereby mini
Class of station Facilities requested		
Commercial TV Ch.4, ERP 12.75 KW @ 360' None		
1. Location of antenna		
State County City or Town		
Texas Howard Big Spring		
Admie on Public Mall 2 or about	n which is plots	ed the exact
Exact antenna location (street address) (If outside city limits, give distance and direction from, and name of nearest town) Location of the antenna site, and the natural formations and/or the	also the relative	location of
listed above.	•	
600 Kentucky Way The chart used shall be an Instrument landing chart on reverse side them	ant Approach Char cofl. or a Sectio	t or the mal Aerona:
cal Chart, choice depending upon p	reximity of the a	ntenna site
neographic coordinates (to be determined to near-st second.	na site is more t	han 10 miles
For directional antenna give coordinates of center of array.) For single vertical radiator give tower location. from a landing area or when an Institute of the control of	trument Approach be purchased from	Chart is un-
Coast and Geodetic Survey, Pashing	ton 25, D. C.	
INORTH LETITUDE West Tongitude 1 / Proportion Them the number of		4.4.4
North latitude West longitude 1/Exception - There the proposed boundary of a landing area for whith	antenna site is w th no Instrument	Approach The
North latitude West longitude	antenna site is w ch no Instrument large scale man s	Approach Cha
North latitude 32 ° 15 16 " 101 ° 26 LLL " Exception - There the proposed to boundary of a landing area for white is available, submit a self-made, is available, submit a self-made, site, namely(s) and existing ren-rade	anterna site is with no Instrument large scale map sistunctures listed	Approach Cha
North latitude 32 ° 15 16 " 101 ° 26 LLL " boundary of a landing area for white is available, submit a self-made, site, namely(s) and existing ren-rade 3. Testignation, distance, and bearing to center line of nearest established airway within 5 miles Green 5, 1.25 miles, South	anterna site is with no Instrument large scale maps structures listed	Approach Cha howing anter above.
North latitude 32 ° 15 ° 16 " 101 ° 26	anterna site is with no Instrument large scale maps structures listed	Approach Cha howing anter above.
North latitude 32 ° 15 ° 16 " 101 ° 26 ' 44 " The submit a self-made, site, namely (s) and existing rearmable site. 4. List all landing areas within 10 miles of antenna site. [Indicate the proposed site of the propo	anterne site is with no Instrument large scale maps structures listed. It formany of each fire and the same structures are same structures are same structures are same structures are same same same same same same same sam	Approach Chahowing anter above.
North latitude 32 ° 15 ° 16 " 101 ° 26	anterna site is with no Instrument large scale map s structures listed in torniary of each contact of the Cartes o	Approach Challenge anter above. ch landing 21
North latitude 32 ° 15 ° 16 " 101 ° 26	anterne site is with no Instrument large scale maps structures listed. It formany of each fire and the same structures are same structures are same structures are same structures are same same same same same same same sam	Approach Challenge anter above. ch landing 21
North latitude 32 ° 15 ° 16 " 101 ° 26	anterna site is with no Instrument large scale map s structures listed in torniary of each contact of the Cartes o	Approach Challowing anterabore. ch landing
North latitude 32 ° 15 ° 16 " 101 ° 26	anterna site is with no Instrument large scale map s structures listed in torniary of each contact of the Cartes o	Approach Challowing anterabore. ch landing
North latitude 32 ° 15 ° 16 " 101 ° 26	anterna site is with no Instrument large scale map s structures listed in torniary of each contact of the Cartes o	Approach Challenge anter above. ch landing 21
North latitude 32 ° 15 ° 16 " 101 ° 26	anterna site is with no Instrument large scale map s structures listed in torniary of each contact of the Cartes o	Approach Challowing anterabore. ch landing
North latitude 32 ° 15 ' 16 " 101 ° 26 ' 144 "	anterna site is with no Instrument large scale map s structures listed in torniary of each contact of the Cartes o	Approach Challenge anter above. ch landing 21
North latitude 32 ° 15 ' 16 " 101 ° 26 ' 144 "	anterna site is with no Instrument large scale map s structures listed in Formary of each contract of the Cont	Approach Challenge anter above. ch landing 21
North latitude 32 ° 15 ° 16 " 101 ° 26	anterna site is with no Instrument large scale map s structures listed in Formary of each contract of the Cont	Approach Cha howing anter above. ch landing
North latitude 32 ° 15 ° 16 " 101 ° 26	anterna site is with no Instrument targe scale map s structures listed to tourish of each of the structure of each of the structure of each of the structure of each of the structure of each of the structure of each of the structure of each of the structure of each of the structure of each of the structure of each of the structure of each of the structure of the	Approach Cha howing anter above. ch landing
North latitude 32 ° 15 ° 16 " 101 ° 26	anterna site is with no Instrument large scale map s structures listed in formany of each 21,70 True. 3080 True.	Approach Chahowing anterabove.
North latitude West longitude 1/ Exception - There the proposed 32 ° 15 ° 16	anterna site is with no Instrument large scale map s structures listed in formany of each 21,70 True. 3080 True.	Approach Chahowing anterabove.
North latitude 32 ° 15 ' 16 ' 101 ° 26 ' 141 '	anterna site is with no Instrument large scale map s structures listed in torniary of each containing of the containing	Approach Chahowing anter above.
North latitude 32 ° 15 16 " 101 ° 26 144 "	e) no	Approach Chahowing anter above. ch landing 211
Single 15 16 101 26 11 15 26 11 15 26 11 15 26 11 15 26 11 15 26 11 15 26 11 15 26 11 15 26 11 15 26 11 26 11 15 26 11 26 11 26 11 26 11 26 11 26 11 26 27 27 27 29 27 27 29 27 27	e) no	Approach Suhowing anterabove. th landing management of the same sub- and showing and showing and showing and showing and showing sub-
North latitude 101 ° 26	e) no existing or promise above ground existing or promise above ground existing or promise above ground in above ground in above ground in above ground in above ground in above ground in above ground in above ground	Approach Chahowing anter above. ch landing III
North latitude 32 ° 15 ' 16 ' 101 ° 26 ' 14 ' 101 ° 26 ' 14 ' 15 available, submit a self-made, site, rurway(s) and existing ran-made (site, rurway(s) and existing ran-made (site, rurway(s) and existing ran-made (site, rurway(s)) and site rurway(s) and existing ran-made (site, rurway(s)) and site rurway(site, rurway(s)) and site rurway(site, rurway(s) and existing ran-made (site, rurway(s)) and site ru	e) no e) no e) rexisting or proents above ground icable ring building if g painting and i.	Approach Chahowing anterabove. ch landing III ### posed sub- and showing any giving ighting.
North latitude West longitude 101 26 14 14 14 14 14 14 14 1	e) no existing or promise above ground existing or promise above ground existing or promise above ground in above ground in above ground in above ground in above ground in above ground in above ground in above ground	Approach Chahowing anter above. ch landing III
West longitude 101 26 14	e) no e) no e) no e) no e) no e) no e) rexisting or promits above ground icable ing building if g painting and . Yes x	Approach Chahowing anterabove. ch landing III #6 posed sub- and showing any giving lighting.
North latitude West longitude 101 ° 26 11	e) no e) no e) no e) no e) no e) no e) no e) no e) no e) no e) no e) no e) no e) no e) no e) no e) no figuration of painting and level painting and	Approach Chahowing anterabove. ch landing the landing
Some content of the processed of the p	e) no e) no e) no e) no e) no e) no e) rexisting or promits above ground icable ing building if g painting and . Yes x	Approach Chahowing anterabove. ch landing 211 #6 posed sub- and showing any giving ighting.

RADIO ENGINEERING CONSULTANTS

EXHIBIT NO. E-1

13111 10 10 10 18 19

Application for
Modification of Construction Permit
New Commercial TV Broadcasting Station
Channel 4, ERP 12.75 KW (11.06 dbk) at 380
Big Spring, Texas
Big Spring Television, Inc.

ENGINEERING STATEMENT

Commercial Radio Equipment Company has been retained by Rig Spring Television, Inc., permittee of TV Station KBST-TV, to prepare the necessary engineering data to accompany their application for modification of construction permit to change effective radiated power, type transmitter, increase antenna height, and other equipment changes. This report contains Sections V-C and V-O of FCC Form 301 and the data and exhibits required by these sections.

The applicant, by this application for modification of the KRST-TV construction parmit, requests a change from a 2 KW transmitter to a 5 KW transmitter, and an increase of 57 feet in overall antenna height above ground. The result of these changes will be an operation on Channel 4 with an Effective Radiated Power of 12.75 kilowatts at an antenna height of 380 feet above average terrain.

Exhibit No. E-2 of this report shows the limits of Grade A, Grade B, and the required minimum field strength contour (74 dbu) coverage which will be provided by the herein proposed operation of KBST-TV. This exhibit very clearly shows that the entire city of Big Spring will be well within the proposed 74 dbu contour. The distances to the contours were determined in accordance with the provisions of Subpart E of Part 3 of the Commission's Rules, using the propagation curves of Figure 5 of Appendix III.

Exhibits Nos. E-3 and E-4 of this report are complete with all information required by Section V-G. It is understood that an overall height of 500 feet above ground has been approved by the CAA for this location. This structure will be constructed so as not to exceed 500 feet above ground including the beacon which will be mounted on top of the TV antenna. Exact dimensions will be included in the license application.



KANSAS CITY, MO.

RADIO ENGINEERING CONSULTANTS

Page 2
EXHIBIT NO. E-1

The output of the television transmitters will be determined and maintained by the use of a dummy load and RF Wattmeter. Complete data with regard to the variation of the power output of the aural and visual transmitters to maintain the outputs at the values specified in the authorizations have been filed with the Commission by the manufacturer.

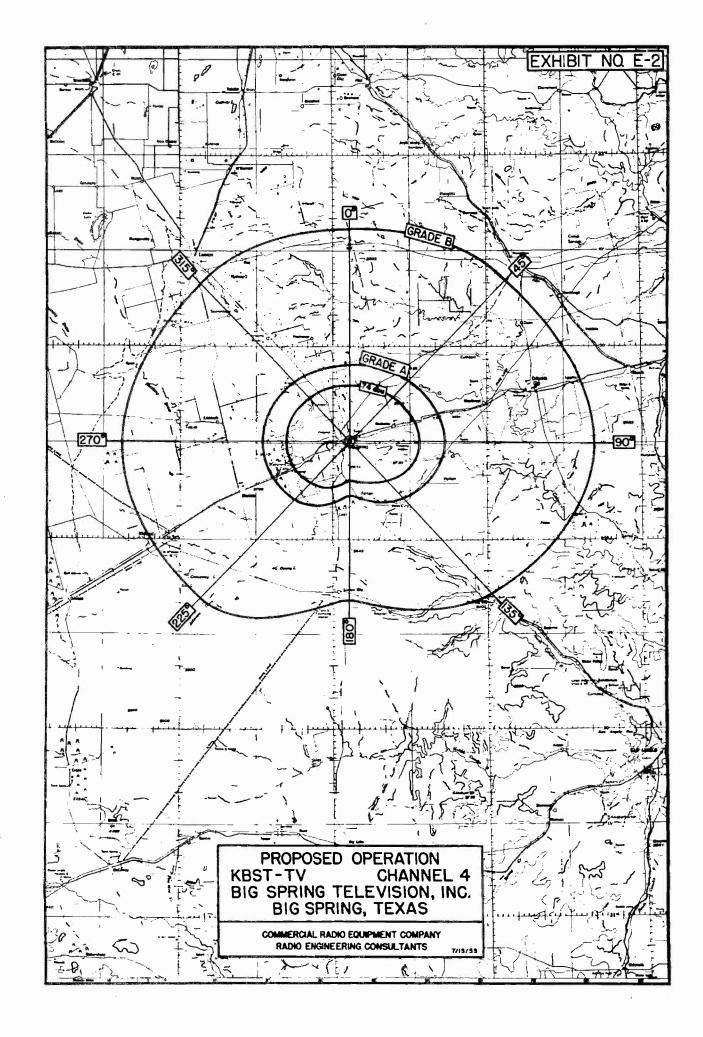
COMMERCIAL RADIO EQUIPMENT COMPANY

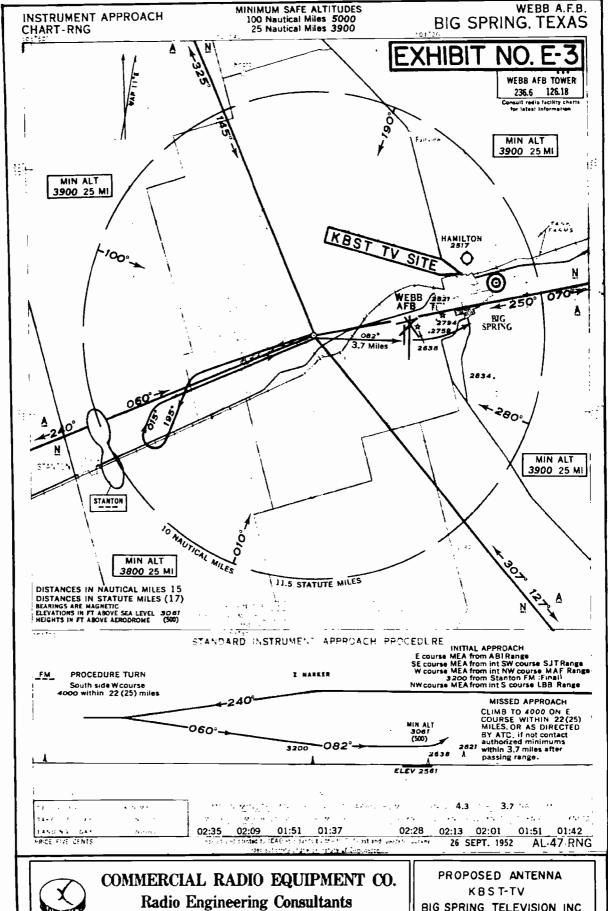
By Edward F. Lorentz

This report dated: July 15, 1955



KANSAS CITY, MO.





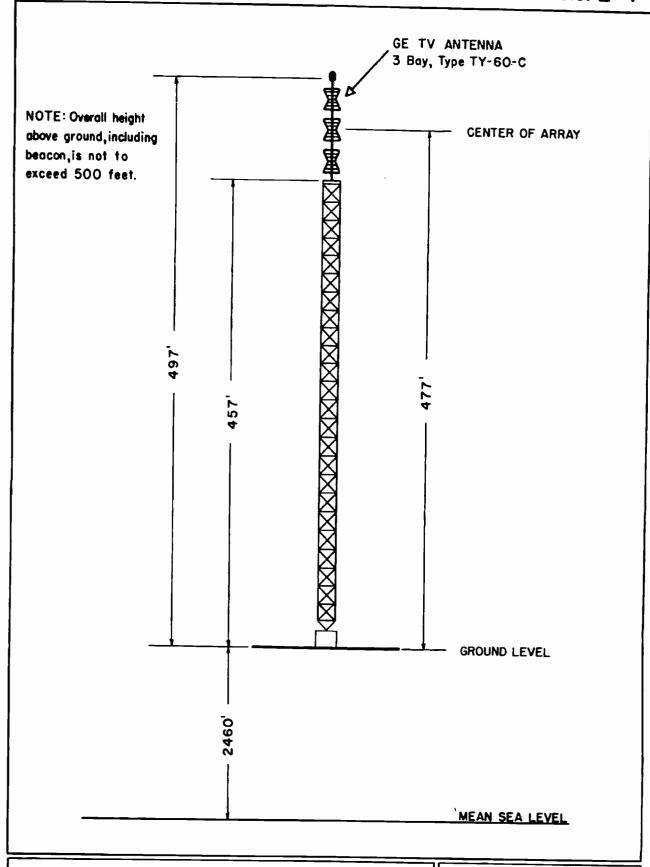


WASHINGTON, D. C.

7/15/55

KANSAS CITY

BIG SPRING TELEVISION INC. BIG SPRING, TEXAS





COMMERCIAL RADIO EQUIPMENT CO. Radio Engineering Consultants

WASHINGTON, D. C.

7/15/55

KANSAS CITY

PROPOSED ANTENNA
KBST-TV
BIG SPRING TELEVISION INC.
BIG SPRING, TEXAS