

ENGINEERING EXHIBIT  
APPLICATION FOR MINOR MODIFICATION  
TO EXISTING FACILITY BLH19840705CB  
KXTN-FM, Facility ID: 67064  
TICHENOR LICENSE CORP.  
SAN ANTONIO, TEXAS  
Channel 298 C0

PURPOSE OF APPLICATION

This exhibit and statement were prepared on behalf of Tichenor License Corporation. Tichenor proposes to relocate the KXTN-FM antenna to accommodate other users on the tower. The location specified is a very minor change to the presently licensed facility. This proposed modification will re-locate the antenna 4 meters higher on the *existing* tower. The proposed facility will operate with 98 KW horizontal and vertical at 453 Meters HAAT as determined by 3-second terrain data. The site will use an ERI 10-bay full wave spaced antenna. The coordinates for this proposed tower in NAD27 datum are: 29°-16'-29" North Latitude 98°-15'-32" West Longitude. The ASR of the tower is 1206963. There are no modifications involving change of height or lighting to the tower as a result of this proposed change.

ALLOCATION

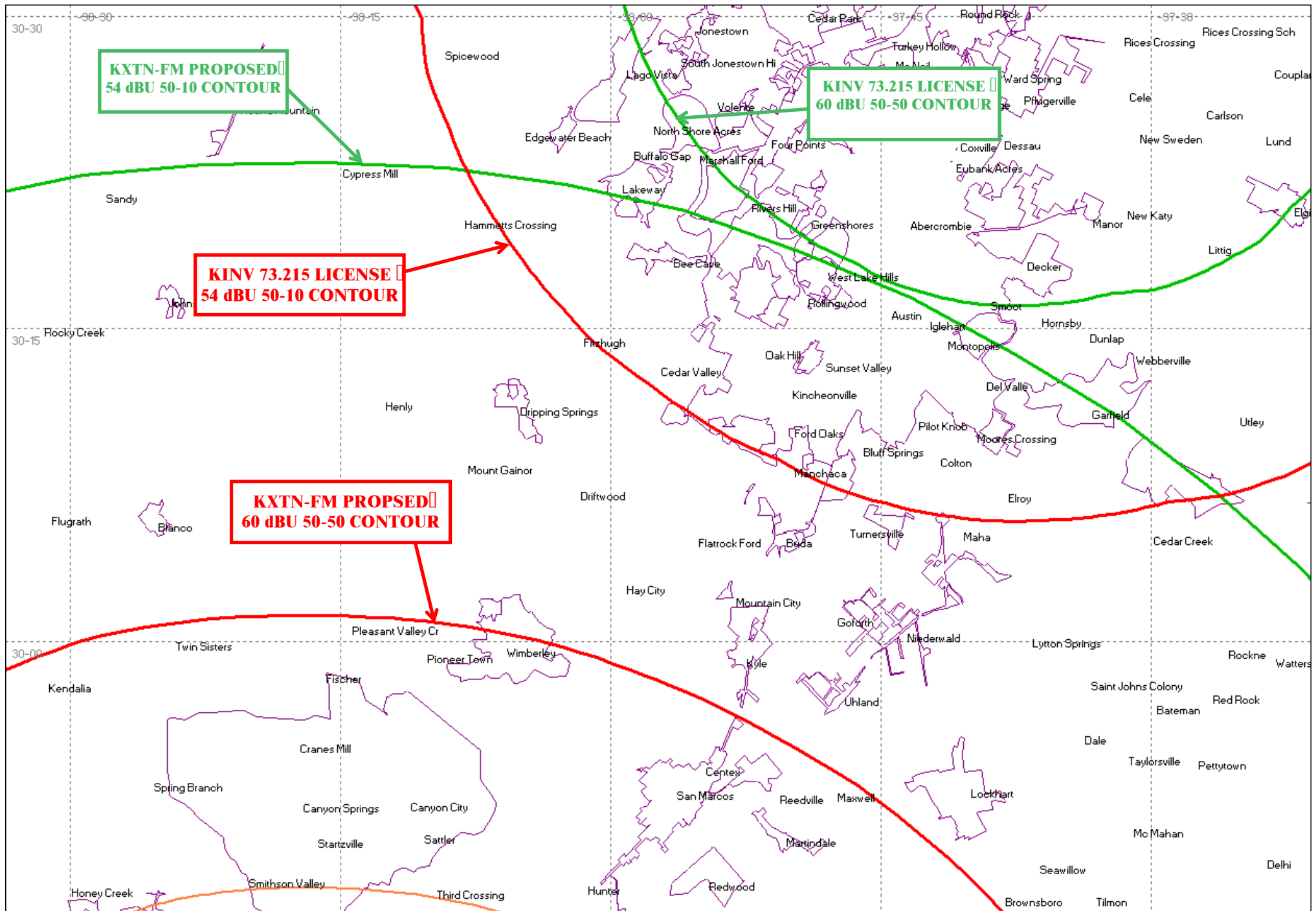
The proposed minor change complies with 73.207b as the facility continues to operate from the present site as a full Class C0. KINV, Georgetown, TX, Channel 299 C3, facility ID 55475 contour protects KXTN-FM per 47CFR 73.215. Please see the following pages for a demonstration of compliance with 73.215 and with 47CFR 73.315, and a table of allocations.

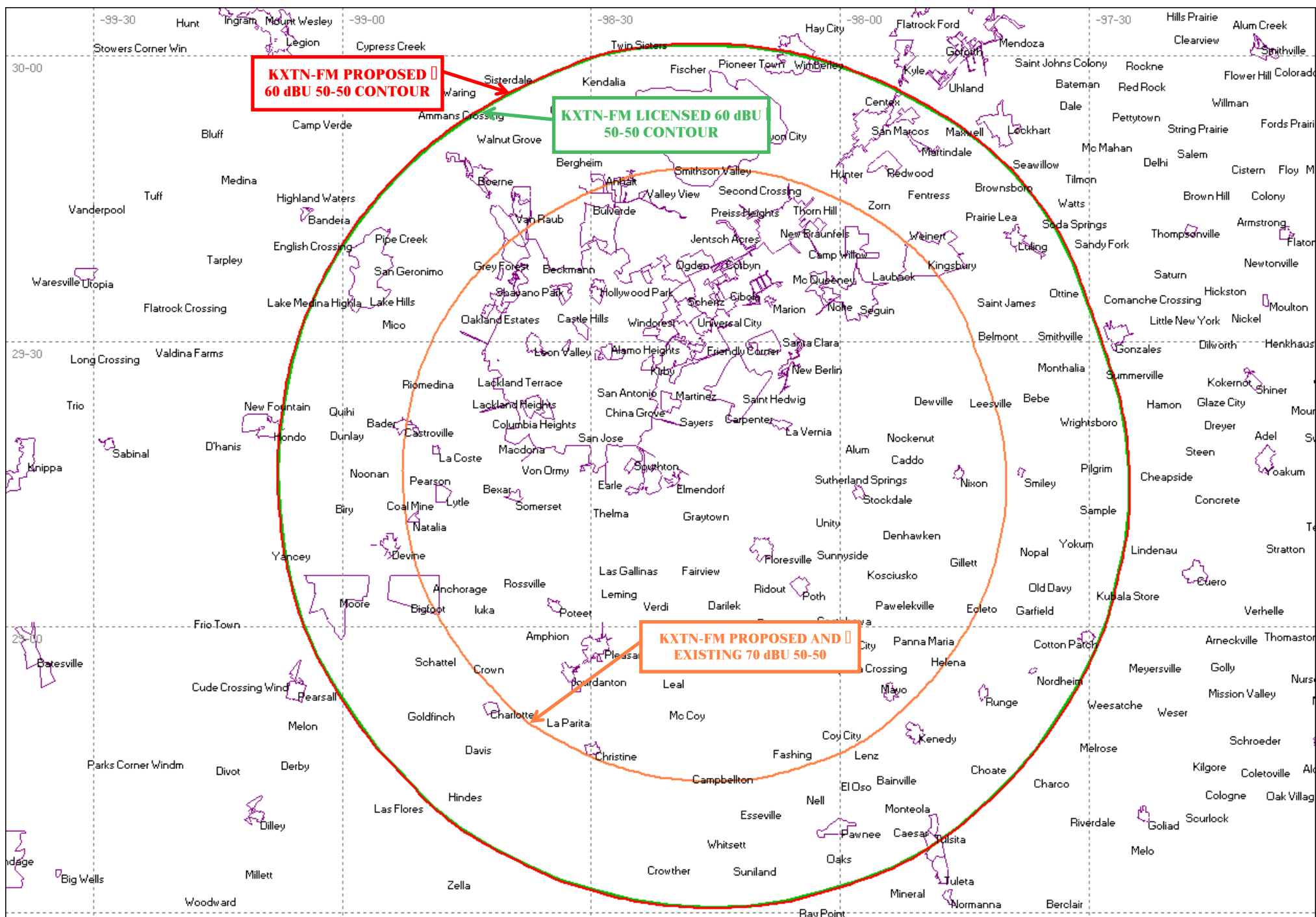
ENVIRONMENTAL

The proposed facility was evaluated in terms of a potential radio frequency radiation hazard to the general population and workers at ground level in accordance with OET Bulletin 65, "Evaluating Compliance With FCC Guidelines For Human Exposure To Radiofrequency Electromagnetic Fields", Edition 97-01. The radiation center of the antenna is 448 Meters above ground level. NIER compliance was determined using the OET FM Model program. The EPA type 3, "Rototiller" was used to evaluate this antenna. For the proposed KXTN-FM antenna, the maximum power density level contributed by the operation would be 1.7 microwatts/centimeter<sup>2</sup> or .85% of the maximum for general population, uncontrolled exposure at two meters above ground level. This maximum occurs at 108 meters from the base of the tower. This contribution is well below 5% of the maximum permissible level for general population, uncontrolled exposure and exempts the applicant from further study of this proposed minor modification to the facility. Please see the following pages for a graph from the OET FM Model program demonstrating the power density levels contributed by the proposed operation. This application is excluded from environmental processing as defined in 47CFR 1.1306, and 1.1307 as it utilizes an existing tower.

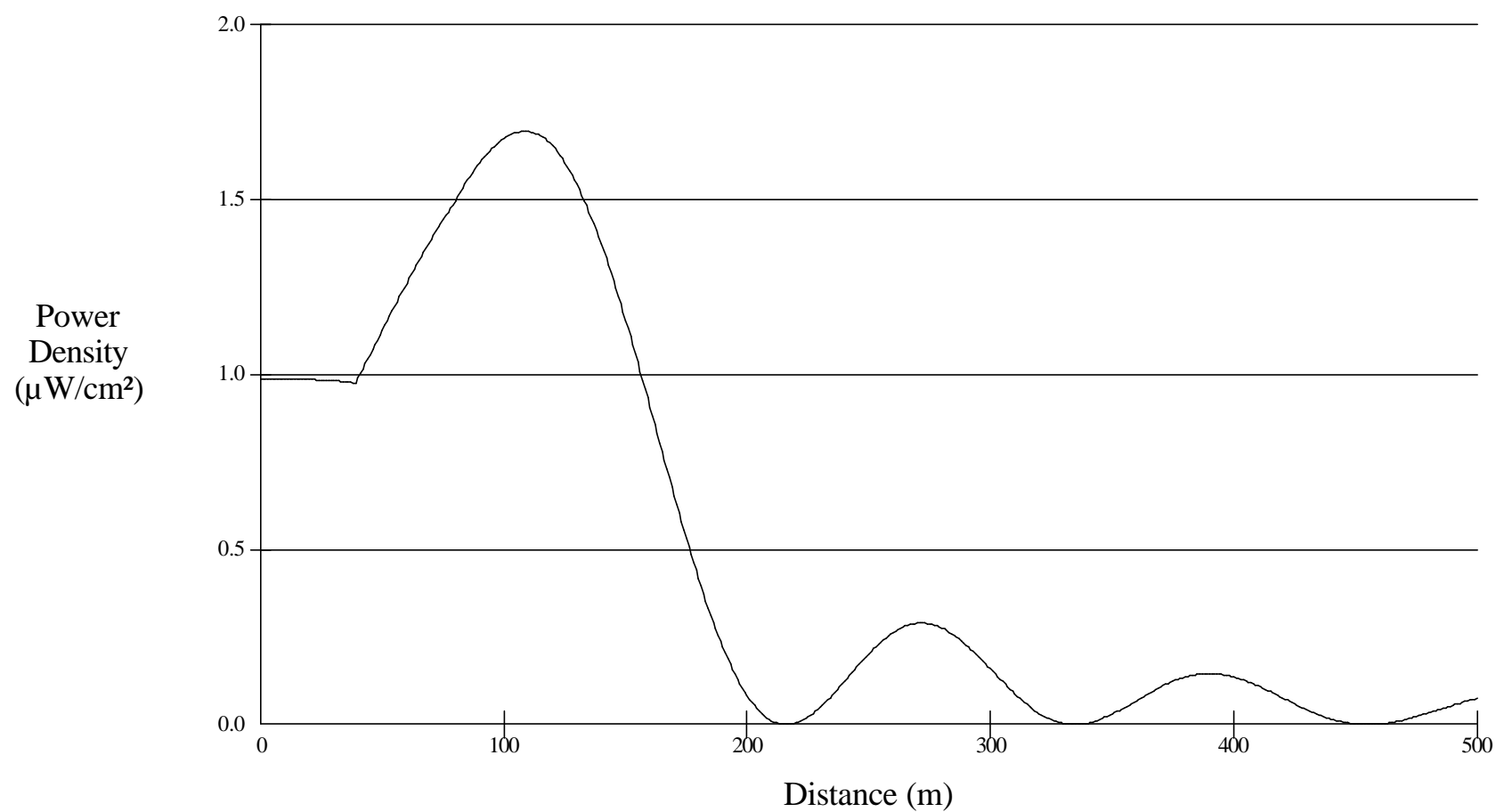
ComStudy 2.2 search of channel 298 (107.5 MHz Class C0) at 29-16-29.0 N, 98-15-52.0 W.

CALL	CITY	ST CHN CL	DIST	SEP	BRNG	CLEARANCE
	LEAKEY	TX 299 A	164.96	152.00	287.1	13.0
	LLANO	TX 297 A	164.52	152.00	348.4	12.5
	LLANO	TX 297 A	164.52	152.00	348.4	12.5
	LLANO	TX 297 A	164.52	152.00	348.4	12.5
	LLANO	TX 297 A	171.56	152.00	344.8	19.6
	SABINAL	TX 296 A	118.63	86.00	273.7	32.6
	SAN ANTONIO	TX 245 C1	55.78	37.00	296.9	18.8
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K300AR	PLEASANTON	TX 300 D	39.51	0.00	222.2	39.5
KFAN-FM	JOHNSON CITY	TX 300 C3	108.44	87.00	340.7	21.4
KFAN-FM	JOHNSON CITY	TX 300 C3	108.44	87.00	340.7	21.4
KGSR	BASTROP	TX 296 C2	110.42	89.00	39.3	21.4
KGSR	BASTROP	TX 296 C2	114.94	89.00	34.9	25.9
KINV	GEORGETOWN	TX 299 C3	175.99	163.00	24.3	13.0
KINV	GEORGETOWN	TX 299 C3	161.04	163.00	21.6	-2.0
KINV	GEORGETOWN	TX 299 C3	161.04	163.00	21.6	-2.0
KJKE	INGLESIDE	TX 297 C3	186.55	163.00	146.6	23.6
KJKE	INGLESIDE	TX 297 C3	186.55	163.00	146.6	23.6
KLDE	LAKE JACKSON	TX 298 C	294.74	281.00	89.0	13.7
KLDE	LAKE JACKSON	TX 298 C	294.74	281.00	89.0	13.7
KLDE	LAKE JACKSON	TX 298 C	294.74	281.00	89.0	13.7
KRXB	BEEVILLE	TX 296 A	105.99	86.00	152.3	20.0
KRXB*	BEEVILLE	TX 296 A	100.36	86.00	155.5	14.4
KXTM	BENAVIDES	TX 299 C2	187.74	176.00	185.5	11.7
KXTM	BENAVIDES	TX 299 C2	187.71	176.00	185.5	11.7
KXTM	BENAVIDES	TX 299 C2	188.03	176.00	186.3	12.0
KXTM	BENAVIDES	TX 299 A	188.21	152.00	186.4	36.2
KXTM	BENAVIDES	TX 299 C2	188.21	176.00	186.4	12.2
KXTM	BENAVIDES	TX 299 C2	188.21	176.00	186.4	12.2
KXTM	BENAVIDES	TX 299 C2	188.21	176.00	186.4	12.2
KXTM	BENAVIDES	TX 299 C2	187.74	176.00	185.5	11.7
KXTN-FM	SAN ANTONIO	TX 298 C0	0.00	270.00	90.0	-270.0
KXTN-FM	SAN ANTONIO	TX 298 C0	0.00	270.00	90.0	-270.0
KXTN-FM	SAN ANTONIO	TX 298 C0	23.03	270.00	315.7	-247.0
KZOE-LP	KERRVILLE	TX 296 LP100	118.92	84.00	316.1	34.9
NEW	PLEASANTON	TX 296 D	38.67	0.00	210.4	38.7
XHGTSFM	NUEVO LAREDO	TA 297 B	232.80	215.00	213.2	17.8
XHGTSFM	NUEVO LAREDO	TA 297 B	232.58	215.00	211.8	17.6





Power Density vs Distance



**98 KW H&V**  
**448 m AGL**  
**10 Bay full wave "Rototiller"**