

**TECHNICAL EXHIBIT  
MINOR MODIFICATION APPLICATION  
KPTY (FM) CHANNEL 285 C2, DEER PARK, TX  
FACILITY ID# 57806  
TICHENOR LICENSE CORPORATION**

**PURPOSE OF APPLICATION**

Tichenor License Corporation proposes this minor modification application to change KPTY (FM), facility ID# 57086, presently licensed on channel 285C3, Missouri City, Texas to Channel 285C2, Deer Park, TX.

**NEW REFERENCE COORDINATES**

The new allotment/reference coordinates specified are 29°-42'-52" N, 95°-05'-39.5" W, NAD27. These coordinates are the location of an existing 170 meter tower, with an ASR of 1050548, located one kilometer from the northern city limits of Deer Park, TX. These coordinates meet 73.207 spacing requirements to all licensed facilities and applications presently on file. See the following pages, Figure 1 for a table and contours demonstrating 73.207 compliance from these coordinates.

**PROPOSED FACILITY LOCATION**

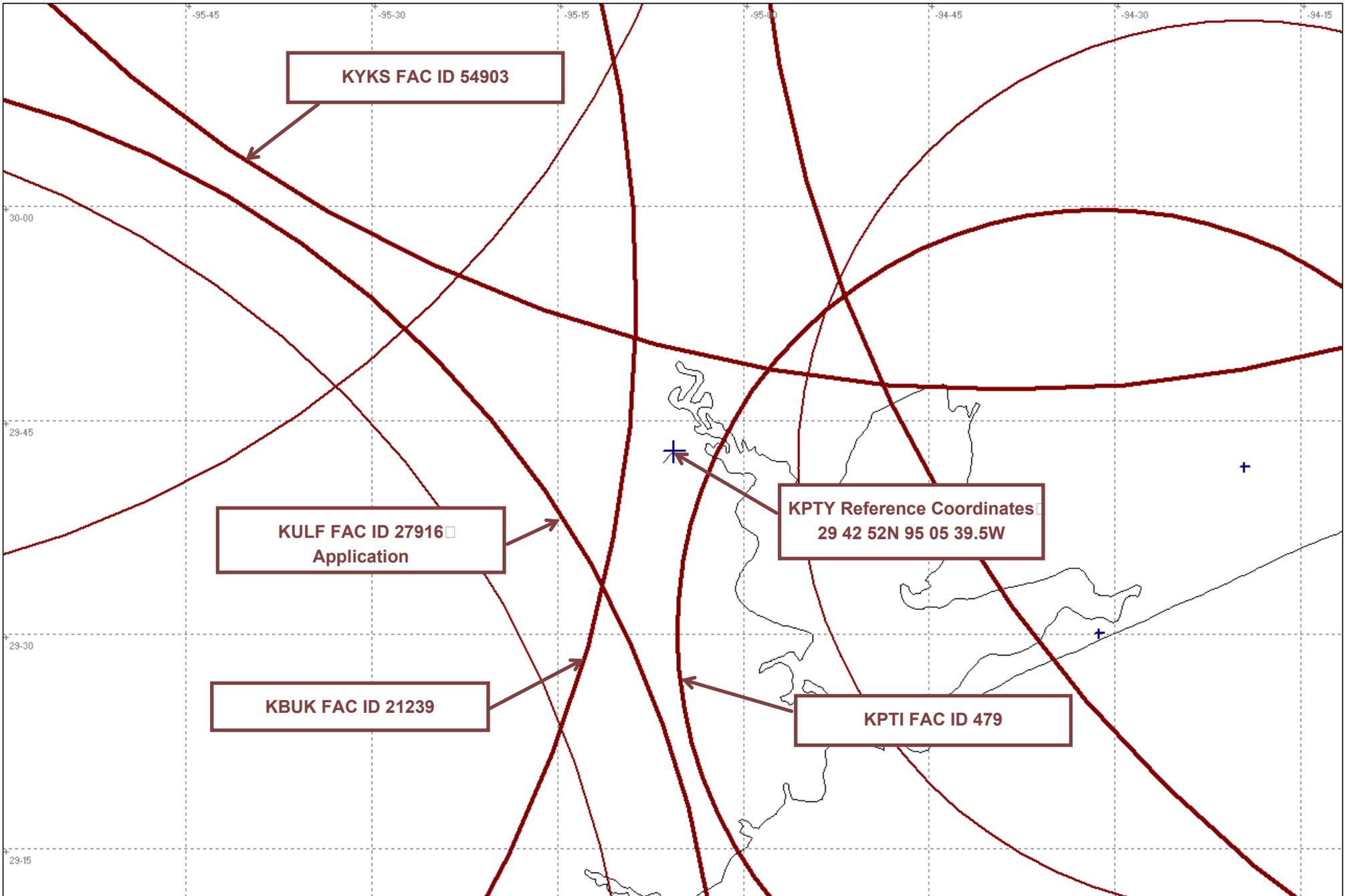
The proposed facility will be located at an **existing tower** of the same ownership as the licensee. The coordinates of this tower are 29°-45'-26" N and 95°-20'-19" W, NAD27. The ASR is 1052552. This facility will require 73.215 contour protection to KBUK(FM) La Grange, TX, Facility ID 21239; a 4.3 KW at 62 meters HAAT Class A3 facility. The contour protection exhibit in the application protects KBUK as a 6KW full Class A facility per 73.213 and 73.215. The proposed new facility will operate with an effective radiated power of 8.8 kilowatts at a height above average terrain of 298 meters. This site meets 73.207 spacing requirements to all other existing facilities. The new facility will use the existing antenna and transmission line and combining equipment. **No alteration** of the tower will take place, therefore no before and after measurements are necessary or possible to make of the pattern, or drive point impedance of the antenna of the AM, KQUE, F.I.D. #65309, which has skirts supported by the same structure as the FM facilities.

**ENVIRONMENTAL**

This proposed facility would use an existing six bay full wave "roto-tiller" type antenna mounted at 300 meters above ground level **on an existing tower**. The OET FM Model program was used to evaluate non-ionizing electromagnetic radiation at two meters above ground level at the 8.8 kilowatts at 300 meters AGL specified. The maximum level was found to be .4519 microwatts per square centimeter or .23% of the maximum level for general population exposure. This level occurs at 94 meters from the base of the tower and is in a restricted, limited access area. This level for the proposed facility is well under 5% of the maximum limit and is excluded from further study per 1.1306. See Figure 2 for the output graph of the OET FM Model program. No changes will be made to this existing tower regarding lighting or any of the conditions specified in 1.1307 as a result of a grant of this application.

# KPTY AREA TO LOCATE CHANNEL 285 C2

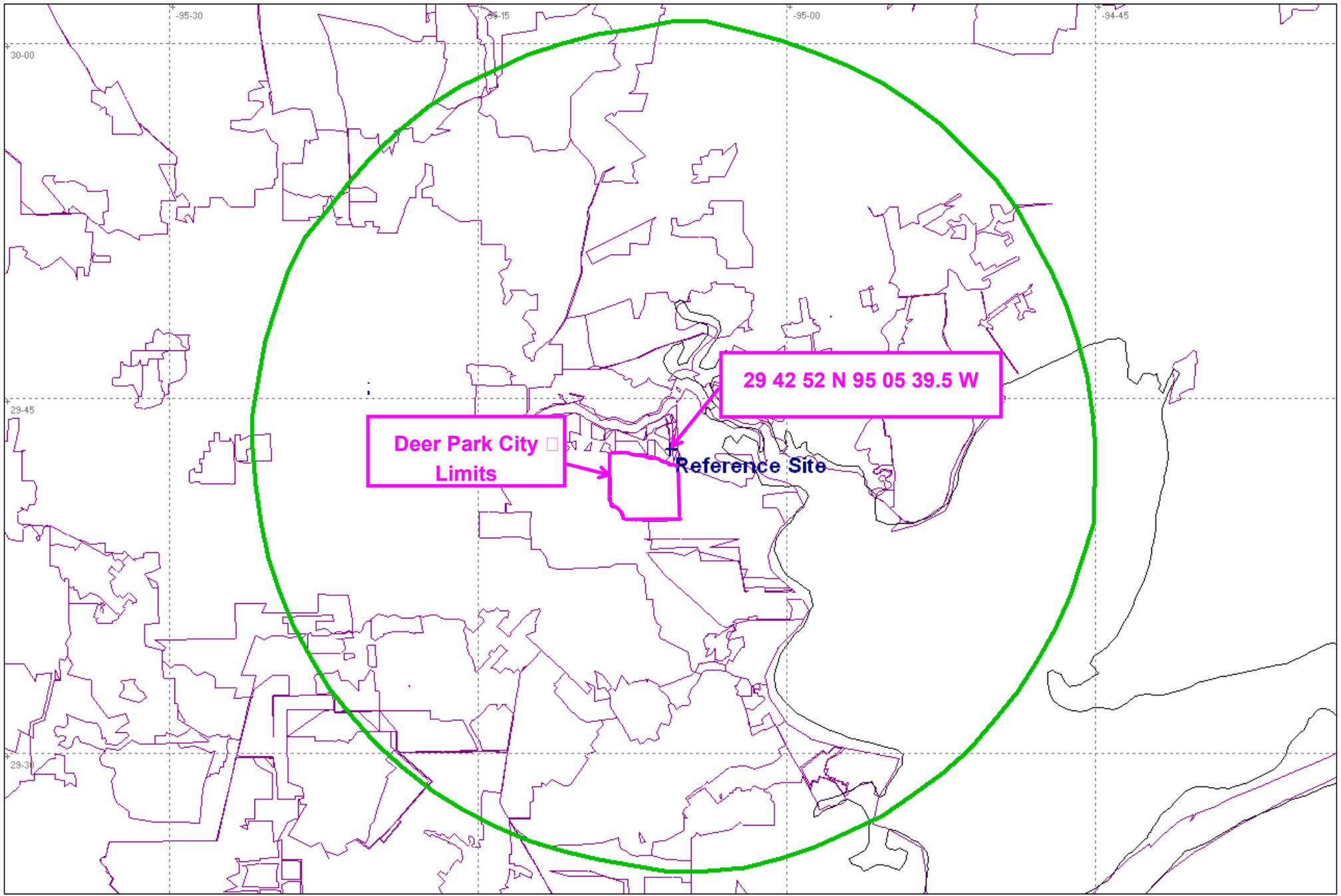
Fig. 1 P.1



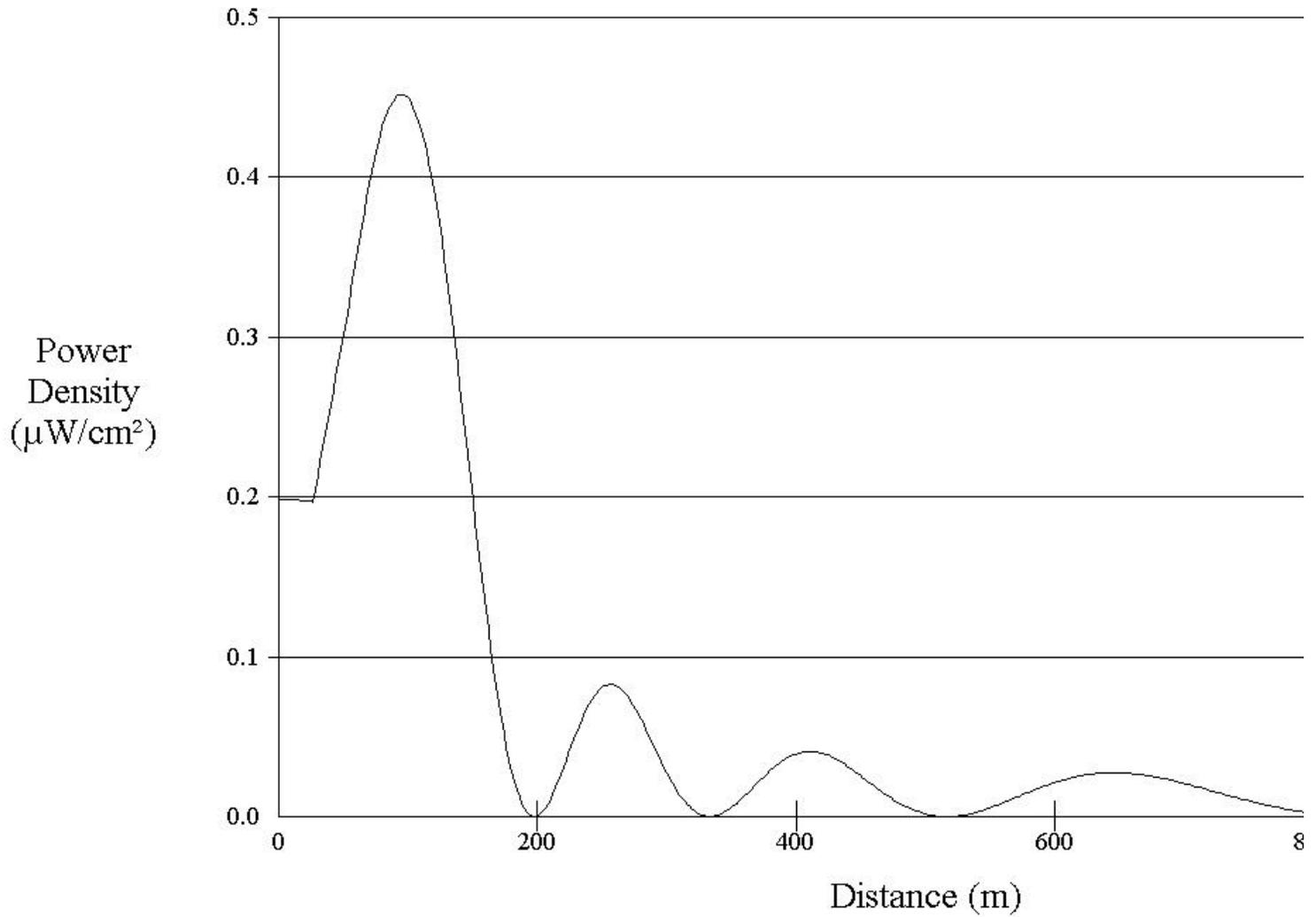
**KPTY Reference Coordinates Channel 285 C2 29 42 52N 95 05 39.5W**

Call	State	City	Freq	Channel	ERP KW	Class	Status	Distance	Sep	Clr	Comment
	TX	CRYSTAL BEACH	105.3	287	0	A	DEL	60.34	55	5.3	
	TX	WINNIE	105.3	287	0	C2	ADD	74.37	58	16.4	
KBUK	TX	LA GRANGE	104.9	285	0	A	USE	172.31	166	6.3	
KBUK	TX	LA GRANGE	104.9	285	4.3	A	LIC	172.31	166	6.3	
KKYS	TX	BRYAN	104.7	284	0	C2	USE	165.4	130	35.4	
KKYS	TX	BRYAN	104.7	284	50	C2	LIC	165.75	130	35.8	
KPTI	TX	CRYSTAL BEACH	105.3	287	6	A	LIC	60.34	55	5.3	
KPTI	TX	CRYSTAL BEACH	105.3	287	0	A	RSV	60.28	55	5.3	
KPTY	TX	MISSOURI CITY	104.9	285	0	C3	USE	38.22	177	-139	Facility studied
KPTY	TX	MISSOURI CITY	104.9	285	2.7	C3	LIC	26.87	177	-150	"
KPTY	TX	MISSOURI CITY	104.9	285	3.2	C3	LIC	24.11	177	-153	"
KPTY	TX	MISSOURI CITY	104.9	285	7.2	C3	LIC	25.7	177	-151	"
KULF	TX	GANADO	104.7	284	0	C2	USE	159.29	130	29.3	
KULF	TX	GANADO	104.7	284	50	C2	APP	146.87	130	16.9	
KYKS	TX	LUFKIN	105.1	286	100	C0	LIC	188.39	176	12.4	
KYKS	TX	LUFKIN	105.1	286	0	C0	USE	188.39	176	12.4	
KZWA	LA	MOSS BLUFF	104.9	285	0	C3	USE	205	177	28	
KZWA	LA	MOSS BLUFF	104.9	285	25	C3	LIC	205.58	177	28.6	

**KPTY REFERENCE SITE CHANNEL 285 C2 70 dBu 50-50 CITY GRADE □  
DEER PARK, TX 50KW 150 M HAAT**



# Power Density vs Distance



Office of Engineering and Technology

Distance (m):	<input type="text" value="1000"/>	Antenna Type:	<input type="text" value="ERI or JAMPRO JBCP 'Rototiller' (EPA)"/>
Horizontal ERP (W):	<input type="text" value="8800"/>	Number of Elements:	<input type="text" value="6"/>
Vertical ERP (W):	<input type="text" value="8800"/>	Element Spacing:	<input type="text" value="1"/>
Antenna Height (m):	<input type="text" value="300"/>		