

**EXHIBIT 1**  
**TECHNICAL STATEMENT**  
**Radio Ranch, LLC**  
**KFXE (FM) Ingram, Texas**  
**Channel 243C3**  
**(FID # 164252)**  
**BLH-20070725AAT**

Applicant Radio Ranch submits this application for a Construction Permit to modify the licensed facility, KFXE. Applicant proposes to operate on tower ASRN 1268747. No alterations of the antenna support structure will be made, except for addition of the transmitting antenna, its transmission line, and a STL link antenna with its feed-line.

Location in NAD83 coordinates:

30 – 06 – 14.8 N

99 – 10 – 36.0 W

This application proposes new KFXE operational parameters as follows:

ERP – 13,000 watts (13 kw) horizontal and vertical.

AMSL – 605.3 meters

RCAGL – 81 meters

RC AMSL – 686.3 meters

HAAT – 106 meters

Antenna is an EPA Type 3, ERI LP – 4C, four bay full wave spacing.

This proposal protects all licensed facilities, construction permits, allotments, applications, and provides contour protection to short spaced 73.215 facilities.

## MEXICO

The current licensed facility is 182.4 km from the US/Mexican border. This proposal is 182.9 km from the US/Mexico border. Applicant believes that this proposal will not require Mexican concurrence.

Exhibit 1 – This technical statement with supporting exhibits.

Exhibit 2 – Separation Requirements and 73.215 contour protection.

Applicant is requesting short spacing, 73.215 to:

KHFI, Georgetown, Texas, FACID – 11948

KXXM, San Antonio, Texas FACID – 28668

This proposal provides contour protection to both stations.

Exhibit 3 – Community Coverage 70 db

Contour map showing predicted 70 db coverage

Exhibit 4 – FMMODEL RFE and Environmental

The RFE for this proposal is  $12.1 \mu\text{W}/\text{cm}^2$  at 32.2 m from base of tower, which is 6.1 % of the maximum of the uncontrolled general population level  $200 \mu\text{W}/\text{cm}^2$ . There are no other broadcast facilities located on this tower. The area around the tower is fenced, signs are posted, and a plan is in place for all users at the site to comply with RFR requirements. Applicant will reduce power or cease operation while personnel are working on the tower.

Exhibit 5 – Aerial Photo of Site

**EXHIBIT 2  
PROPOSED KFXE  
73.215 OVERLAP  
CONTOUR PROTECTION**

Callsign	State	City	Freq	Channel	ERP_w	Class	Status	Distance_km	Sep	Clr
KHFI-FM	TX	GEORGETOWN	96.7	244	100000	C1	LIC	134.63	144	-0.00 dB
KJFK-FM	TX	LLANO	96.3	242	25000	C3	LIC	107.93	99	0.30 dB
KXXM	TX	SAN ANTONIO	96.1	241	100000	C1	LIC	74.07	76	0.35 dB
	CI	PIEDRAS NEGRAS	96.7	244	100000	C		202.26	193	6.78 dB
KEVM-FM	TX	JUNCTION	107.3	297	25000	C3	LIC	47.68	12	35.7

**SHORT SPACE  
REQUIREMENT**

Callsign	State	City	Freq	Channel	ERP_w	Class	Status	Distance_km	Sep	Clr
KHFI-FM	TX	GEORGETOWN	96.7	244	100000	C1	LIC	134.63	133	1.6
KXXM	TX	SAN ANTONIO	96.1	241	100000	C1	LIC	74.07	70	4.1
	CI	PIEDRAS NEGRAS	96.7	244	100000	C		202.26	193	9.3
KJFK-FM	TX	LLANO	96.3	242	25000	C3	LIC	107.93	89	18.9
KEVM-FM	TX	JUNCTION	107.3	297	25000	C3	LIC	47.68	14	33.7

**KHFI - FM clearance -0.47 db rounded to 0.0 db**

Exhibit 3 – Community Coverage 70 db

Contour map showing predicted 70 db coverage

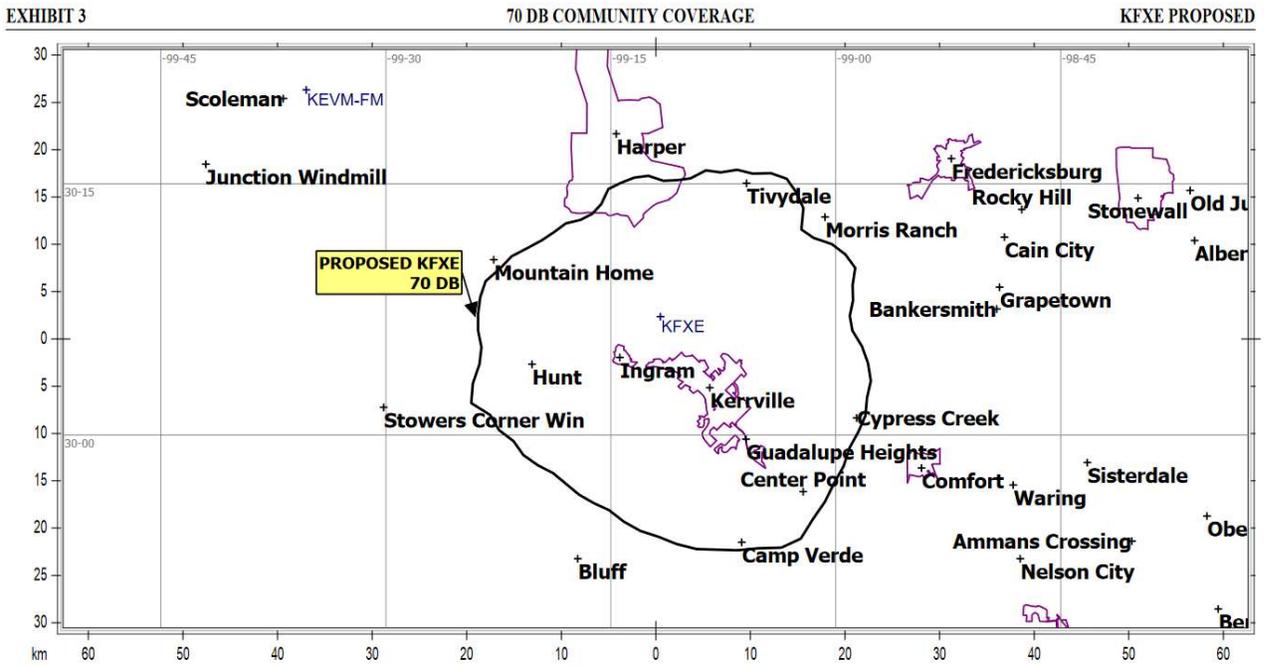
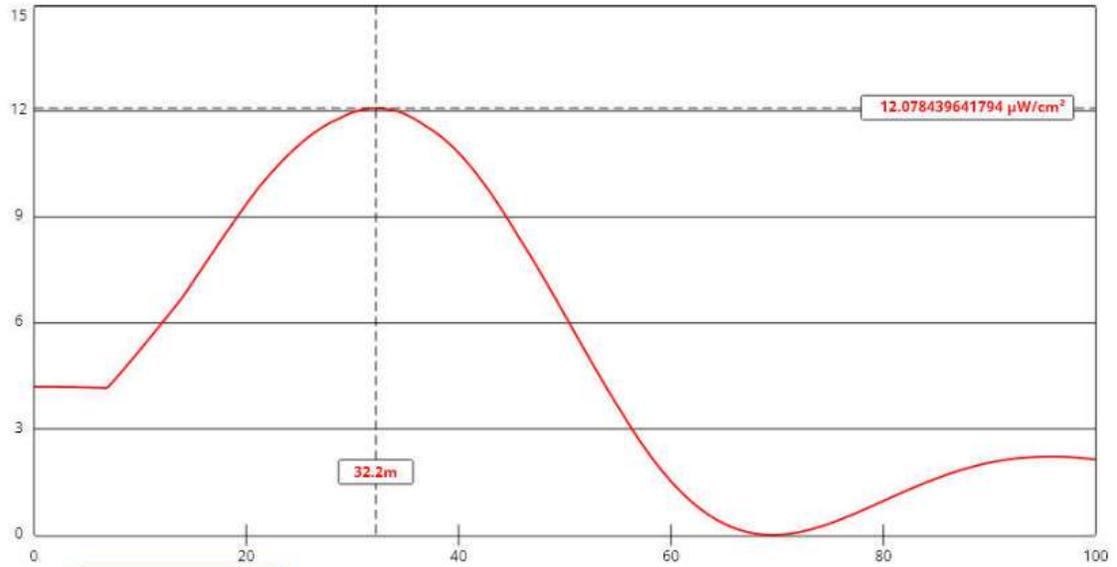


Exhibit 4 – FMMODEL RFE and Environmental



[View Tabular Results +](#)

Channel Selection	Channel 243 (96.5 MHz) ▾		
Antenna Type +	EPA Type 3: Opposed U Dipole ▾		
Height (m)	<input type="text" value="81"/>	Distance (m)	<input type="text" value="100"/>
ERP-H (W)	<input type="text" value="13000"/>	ERP-V (W)	<input type="text" value="13000"/>
Num of Elements	<input type="text" value="4"/>	λ	<input type="text" value="1"/>
Num of Points	<input type="text" value="500"/>	<input type="button" value="Apply"/>	

Exhibit 5 – Aerial Photo of Site

