

## KLFX (FM) ENGINEERING EXHIBIT

June 1, 2007

By this minor change application, a change in location and power for station KLFX is requested.

The proposed location for KLFX is upon a tower described by Antenna Structure Registration Number (ASR) 1051873 at an elevation of 133 meters above ground level. From this location the Height Above Average Terrain (HAAT) will be 167 meters. A spacing study from the proposed location has been conducted and Figure 1 below is the result of that study. From the proposed location KLFX will be fully spaced (Section 73.207) to all known facilities, applications, and allocations with the exception of KHTZ Caldwell, TX. Spacing in accordance with Section 73.215 to KHTZ is requested. Figure 2 is a map depicting that no prohibited contour overlap will occur. KLFX is requesting an effective radiated power (ERP) of 1.35 kW to prevent prohibited contour overlap with KHTZ.

The Proposed facilities were evaluated in terms of potential radio frequency radiation exposure at ground level in accordance with OET Bulletin No. 65, "Evaluating Compliance With FCC-Specified Guidelines for Human Exposure to Radio frequency Radiation."

The proposed antenna system is an Jampro Double "V" type, 3- bay, full wave spaced antenna, mounted with its center of radiation 133 meters above ground level, and will operate with an effective radiated power of 1.35 Kilowatts in both the horizontal and vertical planes. The greatest potential impact of this proposal would be at a distance that is 61 meters from the base of the tower (the "Maximum Point"). At 2 meters above ground, at all points between the base and the Maximum Point, the proposal is well within the allowable ANSI limits for controlled and uncontrolled exposure. At the Maximum Point, at 2 meters above ground, this proposal would contribute, worst case, 0.82 microwatts per square centimeter, or .08 percent of the allowable ANSI limit for controlled exposure, and 0.41 percent of the allowable limit for uncontrolled exposure. This figure is less than 5% of the applicable FCC exposure limit at all locations extending out from the base of the tower. Section 1.1307(b)(3) excludes applications when the calculated level is predicted to be less than 5% of the applicable exposure limit. It is therefore believed that this proposal is in compliance with OET Bulletin Number 65 as required by the Federal Communications Commission.

Further, the applicant will see that signs are posted in the vicinity of the tower, warning of potential radio frequency hazards at the site. The site itself is restricted from public access. The applicant will cooperate with other users of the tower to reduce power of the facility, or discontinue operation, as necessary to limit human exposure to levels less than specified by the Federal Communications Commission should anyone be required to climb the tower for maintenance or inspection.

Figure 1 – Spacing Study

ComStudy 2.2 search of channel 297 (107.3 MHz Class A) at 31-05-38.0 N, 97-34-51.0 W.

Callsign	State	City	Freq	Chanl	ERP_w	Class	Status	Dist_km	Sep	Clr
KHTZ	TX	CALDWELL	107.3	297	6000 A	LIC	LIC	112.61	115	-2.4
KHTZ*	TX	CALDWELL	107.3	297	0 A	RSV	RSV	112.61	115	-2.4
KGSR	TX	BASTROP	107.1	296	39000 C2	LIC	LIC	107.78	106	1.8
K295AP	TX	BELTON	106.9	295	250 D	LIC	LIC	2.37	0	2.4
NEW	TX	HEWITT	106.7	294	21500 C3	APP	APP	49.88	42	7.9

Figure 2 - Contour Map

