

Comprehensive Engineering Exhibit

KVJM Hearne, Texas

Facility ID No.: 52835

March 2010

This minor change application is to correct the coordinates of the facility to match those of a recent survey and Antenna Structure Registration (ASR) modification.

The antenna of KVJM is located 91 meters above ground on the tower structure identified by ASR Number 1044896. As demonstrated below in **Table 1**, from this location the station is fully spaced to all facilities, applications, and un-built allocations. At this proposed location the calculated height above average terrain is 109 meters as determined using the FCC provided web-tool. At this height, 9 meters over class maximum, the FCC web-tool "FM power" determines the equivalent power for a class "A" station is 5.0 kW, as proposed herein.

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 EPA type 3, 6- bay, full wave spaced, "Roto- tiller" ERI brand antenna, mounted with its center of radiation 91 meters above ground level, and will operate with an effective radiated power of 5 Kilowatts in both the horizontal and vertical planes. At 2 meters above ground, at 27 meters from the base of the tower, this proposal will contribute worst case, 2.87 microwatts per square centimeter, or 0.29 percent of the allowable ANSI limit for controlled exposure, and 1.45 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.

Table 1. Spacing

ComStudy 2.2 search of channel 276 (103.1 MHz Class A) at 30-45-26.0 N, 96-28-04.0 W.									
Callsign	State	City	Chanl	ERP_w	Class	Status	Dist_km	Sep	Clr
KVJM	TX	HEARNE	276	5000	A	LIC	0.3	115	-114.7
KLTN	TX	HOUSTON	275	55000	C0	LIC	152.15	152	0.1
KLTN	TX	HOUSTON	275	99500	C0	LIC	155.23	152	3.2
KLTN	TX	HOUSTON	275	27000	C0	LIC	155.23	152	3.2
KSSM	TX	COPPERAS COVE	276	8600	C3	LIC	146.44	142	4.4
	TX	MILANO	274	0	A	APP	44.87	31	13.9
KWBU-FM	TX	WACO	277	2750	A	LIC	101.67	72	29.7
KBRQ	TX	HILLSBORO	273	890	C1	LIC	108.9	75	33.9
KWUP	TX	NAVASOTA	223	3300	A	LIC	51.51	10	41.5