

Comprehensive Engineering Exhibit
Capstar TX Limited Partnership
KDGE (FM) FID No. 9620
August 27, 2004

This minor change application seeks to increase height above average terrain to a value above class C0 in order to retain present C class. This application proposes to simply move to a higher antenna upon the present antenna support structure 1046223, at a height of 436 meters above ground level. This will be a shared antenna transmitting the signals of KDGE (FM) and KDMX (FM) which are under common ownership and control.

From this location, KDGE(FM) is fully spaced Section 73.207 to all allocations, applications, and facilities with the exception of KBRQ(FM), KHKC-FM Application, KHKC-FM Licenses, and KWFS-FM, all of which use Section 73.215 to KDGE(FM). Figure 1 is a Section 73.207 spacing study.

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, 10- bay, antenna, mounted with its center of radiation 436 meters above ground level, and will operate with an effective radiated power of 100 Kilowatts in both the horizontal and vertical planes. At 2 meters above ground, at 106 meters from the base of the tower, this proposal will contribute worst case, 1.80 microwatts per square centimeter, or 0.18 percent of the allowable ANSI limit for controlled exposure, and 0.90 percent of the allowable limit for uncontrolled exposure. 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

ComStudy 2.2 search of channel 271 (102.1 MHz Class C) at 32-34-54.0 N, 96-58-32.0 W.

Callsign	State	City	Channel	ERP_w	Class	Status	Dist_km	Sep	Clr	Comments
KBRQ	TX	HILLSBORO	273	100000	C1	LIC	85.89	105	-19.1	**73.215*
KHKC-FM	OK	ATOKA	271	3380	A	APP	216.45	226	-9.6	**73.215*
KHKC-FM	OK	ATOKA	271	3300	A	LIC	216.45	226	-9.6	**73.215*
KWFS-FM	TX	WICHITA FALLS	272	100000	C1	LIC	206.44	209	-2.6	**73.215*
KBUS	TX	PARIS	270	0	C2	USE	188.56	188	0.6	