Comprehensive Engineering Exhibit
Clear Channel Broadcasting Licenses
KTST-FM FID# 58390
August 25, 2004

This minor change application seeks to increase height above average terrain to a value above class C0 in order to retain its present C class. This application proposes to simply move to a higher antenna upon the present antenna support structure 1045226, at a height of 488 meters above ground level. This will be a shared antenna transmitting the signals of KXXY-FM, KTST(FM), KHBZ-FM, and KJYO(FM) all of which are under common ownership and control.

From this location KTST(FM) is fully spaced Section 73.207 to all allocations, applications, and facilities. 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, 6- bay, antenna, mounted with its center of radiation 488 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 156 meters from the base of the tower, this proposal will contribute worst case, 1.91 microwatts per square centimeter, or 0.19 percent of the allowable ANSI limit for controlled exposure, and 0.95 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 270 (101.9 MHz Class C)
at 35-35-52.0 N, 97-29-22.0 W.

Callsign	State	City	Chnl	ERP_w	Class	Status	Dist_km	Sep	Clr	Comment
	OK	GOTEBO	271	0	A	APP	151.76	165	-13.2	Trigger
	OK	WAUKOMIS	268	0	C3	APP	88	96	-8	Trigger
KTCY	TX	AZLE	269	92000	C	CP	239.7	241	-1.3	73.215
KZSN	KS	HUTCHINSON	271	100000	C	APP	241.92	241	0.9	
KZSN	KS	HUTCHINSON	271	98000	C	LIC	244.01	241	3	
KZSN	KS	HUTCHINSON	271	0	C	USE	244.01	241	3	
KTCY	TX	AZLE	269	0	C	USE	245.92	241	4.9	
KHKC-FM	OK	ATOKA	271	0	A	USE	174.31	165	9.3	
	OK	SAYRE	269	0	C2	APP	198.17	188	10.2	
KHKC-FM	OK	ATOKA	271	3300	A	LIC	176.56	165	11.6	
KHKC-FM	OK	ATOKA	271	3380	A	APP	176.56	165	11.6	
NEW	OK	DEL CITY	272	250	D	APP	14.63	0	14.6	
	TX	MUNDAY	270	0	C1	APP	288.61	270	18.6	