

**Engineering Exhibit to KMXA-FM
Application for Minor Change
Minot, North Dakota
Facility ID: 34996**

This exhibit presents the technical details of a change in antenna location made necessary due to the failure of the present location support tower. The distance of this relocation is south approximately 16.14 kilometers along a bearing of 152°T from the presently licensed location. No change in principal community, power, class, or channel is proposed.

Antenna Location

It is proposed to share the existing KIZZ/KZPR antenna, the 3 stations being combined into the existing 2 station combined antenna. The proposed antenna for KMXA-FM is mounted 135 meters above ground on the tower identified by antenna structure registration number 1205086.

Spacing Compliance

Attached as Figure 1 is a spacing study from the proposed antenna location indicating compliance with the Commission's Section 73.207.

Radio Frequency Radiation Study and Statement

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 3 station combined antenna system is an ERI SHPX-12AC6-SP 12 bay array with full wavelength spacing between elements, which has been evaluated using the FCC Page "FM Model" set for this type of radiating element; an EPA type 3 "Rototiller" mounted with its center of radiation 135 meters above ground level, and operated with a combined effective radiated power of 242 kilowatts in both the horizontal and vertical. At 2 meters above ground, at 29 meters from the base of the tower, this proposal will contribute worst case,

42.6 microwatts per square centimeter, or 4.2 percent of the allowable ANSI limit for controlled exposure, and 21.0 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

Figure 1 - Antenna Location Spacing Study

Call	Channel	Location	Azi	Dist	FCC	Margin
KMXA-FM	LIC	260C1 Minot	ND	333.2	16.14	244.5 -228.4
AL9743	DEL	260C1 Winnipeg	MB	54.9	345.26	292.0 53.3
R10618	ADD	260C1 Winnipeg	MB	55.9	361.36	292.0 69.4
R42839	ADD	258C1 Brandon	MB	29.6	207.71	134.0 73.7
CKSB8F	LIC-D	258B Brandon	MB	29.6	207.71	115.0 92.7
R43119	DEL	258B Brandon	MB	29.6	207.71	115.0 92.7
KATQ-FM	LIC	261A Plentywood	MT	290.2	243.61	132.5 111.1

Reference station has protected zone issue: Canada
All separation margins include rounding