

Kanza Society, Inc.
340 Application for Modification of Construction Permit
KCSE-FM, BMPED-20101012AFD
Lamar, CO
February 2, 2010

EXHIBIT 24: Environmental Protection Act

Documentation for Form 340, Section VII, Item 18

Impact on the Environment

The proposed facility will be built on an existing tower in an area devoted to agricultural and industrial uses. The nearest community is 3 miles distant (Lamar, Colorado). The site is not an "Historic Place" as described in Section 1.1307(a)(4). This application is therefore excluded from the preparation of an "Environmental Assessment" pursuant to Section 1.1306.

R.F. Radiation Compliance

There are three sources of radiation on this tower not categorically excluded from environmental processing by 47 C.F.R Section 1.1307. The first is KLMR FM's antenna. The second is K207BI. The third is the proposed FM antenna. The following data was used to calculate the total R. F. Emissions based on the formulas expressed in the OET Bulletin, No. 65, August 1997, "Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields".

Facility	Frequency	ERP	Height AGL	Antenna
KLMR-FM	93.5 Mhz	100 KW	139 meters	ERI SPHX-8
K207BI	89.3 Mhz	.250 KW	121.6 meters	Shively 6812
Proposed	90.7 Mhz	.250 KW	106.0 meters	Shively 6812

Power density determinations for the Proposed FM station and other sources of radiation were verified with the Commission's FM Model software and the following power densities were determined:

Facility	Power density	% of maximum for controlled area	% of maximum for uncontrolled area
KLMR	20.76	2.8%	10.38%
K207BI	.086	.009%	.04%
Proposed	.113	.011%	.06%
Total exposure:	20.959	2.82%	10.48%

Chart 22-A through 22-C below provides the plots of the proposed FM station's RF emissions 2 meters above ground level.

The "worst case" calculations were used and since it is well known that the actual RF power density level is considerably reduced at vertical angles toward the nadir the applicant is confident that there will be no exposure at the transmitter site greater than the maximum.

Consequently, it appears that the proposed FM station will be in full compliance with the Commission's human exposure to radiofrequency electromagnetic field rules and regulations.

Conclusion

As the above calculation indicates, the total of the two sources of radiation on tower falls below the limits set forth in ANSI C95.1 (1992) for radiation density at 2 meters above ground level. As such, there is no threat to the public of passive overexposure to dangerous levels of non-ionizing RF radiation.

Kanza society, Inc. certifies that it will reduce power or cease operation as necessary so as to protect any workers near the antenna from occupational hazards during periods of building maintenance.

Chart 22-A KLMR



Chart 22-B K207BI

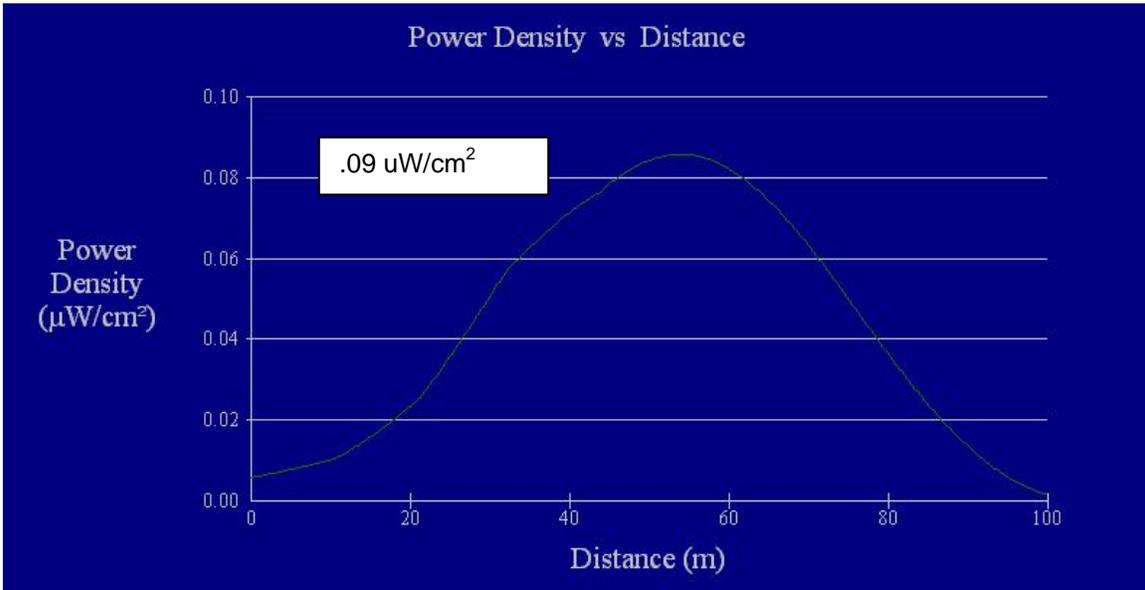


Chart 22-C Proposed Station

