

**Engineering Statement
In Support of an
Application for a Construction Permit
KNIM, Maryville, Missouri**

Human Exposure To Radiofrequency Radiation Study

<u>CALL</u>	<u>Service</u>	<u>Channel</u>	<u>Frequency</u>	<u>Polarization</u>	<u>Antenna Height (AGL)</u>	<u>ERP (kW)</u>	<u>Vertical Relative Field Factor</u>	<u>Predicted Power Density (mWcm²)</u>	<u>FCC Uncontrolled Limit (mWcm²)</u>	<u>Percent of Uncontrolled Limit</u>
KNIM-FM	FM	246	97.1	H&V	75*	21.500	1.000	0.14200	0.200	71.00%

Total Percentage of ANSI value = 71.00%

* The antenna height indicated above is 2 meters less than the actual antenna height so that the predicted power density consider the 2 meter human height allowance.

As demonstrated, the total percentage of the ANSI values at the proposed site, considering the radiation of proposed facility (using a 10 element dipole EPA antenna for study purpose) at the site, is only 71.00% of the limit for “uncontrolled” environments when using an EPA dipole antenna for study purposes. The total percentage for “controlled” environments is only 14.20%.