

**Engineering Statement  
In Support of an  
Application for a Construction Permit  
KCSX, Lee's Summit, 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 (mWcm<sup>2</sup>)</u>	<u>FCC Uncontrolled Limit (mWcm<sup>2</sup>)</u>	<u>Percent of Uncontrolled Limit</u>
KSMO-TV	DT	47	671	H	348	1000.000	0.300	0.02482	0.477	5.55%
KSMO-TV	TV	62	761	H	333	1795.000	0.300	0.02434	0.507	4.80%
KTAJ-DT	DT	21	515	H	348	500.000	0.300	0.01241	0.343	3.61%
KSRC-FM	FM	271	102.1	H+V	333	100.000	1.000	0.03050	0.200	15.25%
KCMO-FM	FM	235	94.9	H+V	333	100.000	1.000	0.03050	0.200	15.25%
KFME-FM	FM	286	105.3	H+V	341	69.000	1.000	0.02000	0.200	10.00%
KCSX*	FM	247	97.3	H+V	348	55.000	1.000	0.00000	0.200	0.00%

Total Percentage of ANSI value = 54.46%

\* Proposed 8 element (½ wave) “ERI Rollertiller” EPA.

As demonstrated, the total percentage of the ANSI values at the proposed site, considering the cumulative radiation of all facilities at the site, is only 54.46% of the limit for “uncontrolled” environments when using an EPA dipole antenna for study purposes. The total percentage for “controlled” environments is only 10.89%.