

Engineering Statement
In Support of a Minor Amendment
to a Pending Application

KYZK, Sun Valley, Idaho, Channel 298C0

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>
KSKI-FM	FM	279	103.7	H&V	23	52.000	1.000	0.0850	0.200	42.50%
KECH-FM	FM	237	95.3	H&V	23	16.000	1.000	0.0270	0.200	13.50%
KYZK-FM	FM	298	107.5	H&V	23**	47.000	1.000	0.0750	0.200	37.50%
K216CY	FM	216	91.1	H&V	12	0.008	1.000	0.0020	0.200	0.01%
KVST-LP	TV	20	507.0	H	9	0.143	0.300	0.0004	0.341	0.12%
KVSX-LP	TV	18	512.0	H	13.7	2.510	0.300	0.0060	0.333	1.20%

* Proposed.

Total Percentage of ANSI value = 94.83%

** 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. For study purpose, the following antennas were use: a 0.9 wavelength spaced 6 element ERI “rototiller” (EPA), for the FM combined facilities, a 2 element “dipole” (EPA), for the FM translator, Scala 4DR-16S antennas for the UHF-TV. The results of the study is 18.97% of the limit for “uncontrolled” environments when using an EPA dipole antenna for study purposes. The total percentage for “controlled” environments is only 94.83%.