

**Engineering Statement
In Support of an
Application for a Construction Permit
KLUR, Wichita Falls, Texas**

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>
K211ED	FM	211	90.1	H&V	70.6	0.250	1.000	0.0000700	0.200	0.0400%
KNIN-FM	FM	241	96.1	H&V	272	100.000	1.000	0.0004200	0.200	0.2100%
KLUR	FM	260	99.9	H&V	237.4	100.000	1.000	0.0110000	0.200	5.5000%
KQXC-FM	FM	280	103.9	H&V	237.4	19.000	1.000	0.0021000	0.200	1.0500%
KAUZ-TV	TV	6	79	H	303	100.000	0.300	0.0184325	0.200	9.2162%
KAUZ-TV	TV	22	521	H	303	200.000	0.300	0.0476693	0.347	13.7244%

Total Percentage of ANSI value = 29.7406%

* 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.

The FM Model for window was used for the FM studies, the individual studies are base on 1 wavelength between elements of antenna. K211ED has a SWR model FMEC/2 antenna and a Jampro Double V (EPA) 2 element was used for the study. KNIN-FM has a ERI 12 element Rototiller (EPA) antenna that was used for the study. The current antenna of KLUR is being replaced by a Dielectric 12 element (DCR-M12CT4) to be used as a common antenna with KQXC-FM and a RCA "BFC" (EPA) was used for the study. The KTLT granted CP will not be built, the licensee has a pending application at a different location, when approved will be built.

For the TV facilities, Equation (2), found on Page 30 of Supplement A to FCC OET Bulletin No. 65, detail the calculation technique for determining the power density levels at the base of the tower, assuming 100% downward radiation from the individual antennas.

As demonstrated, the total percentage of the ANSI values at the proposed site, considering the radiation of proposed facilities and the existing facilities is 29.741% of the limit for "uncontrolled" environments when using an EPA dipole antenna for study purposes. The total percentage for "controlled" environments is only 5.948%.