

RF HAZARD STATEMENT

FM BROADCAST STATION KWEN
TULSA, OKLAHOMA
CHANNEL 238C 100 KW (H & V) 453 METERS

With respect to the potential for human exposure to radio frequency (RF) energy, calculations prepared in accordance with FCC Bulletin OET-65 (Edition 97-01) indicate that the KWEN facility will not result in human exposure to RF energy at ground level in excess of FCC standards.*

The KWEN facility employs an Electronics Research, Inc. (ERI) model SHPX-10C6-SP 'rototiller-type' antenna (EPA Type 3) with 10-bays with 0.944 wavelength spacing. The antenna is side-mounted on a tower structure with a radiation center height above ground level of 391 meters. An RF exposure analysis conducted using the FCC *FMMModel* Version 2.10 indicates that the RF exposure at 2 m above ground anywhere in the vicinity of the proposed facility will not exceed $0.42 \mu\text{W}/\text{cm}^2$, which is equivalent to 0.21% of the FCC exposure limit for general population / uncontrolled environments of $200 \mu\text{W}/\text{cm}^2$. Therefore, the facility complies with the FCC limits for human exposure to RF energy and it is categorically excluded from environmental processing.

The applicant, in coordination with any other users of the transmission facility, shall reduce power or cease operation as necessary to protect persons having access to the tower or antenna from RF energy in excess of the FCC guidelines.

* See FCC Office of Engineering and Technology Bulletin No. 56 for background information on non-ionizing RF energy of the type discussed here. Internet web reference:
http://www.fcc.gov/Bureaus/Engineering_Technology/Documents/bulletins/oet56/oet56e4.pdf