

Engineering Statement
In Support of an
Application for a Construction Permit
KWKD, 272C, Randolph, Utah

Human Exposure to Radiofrequency Radiation

The proposed antenna will be the same as being used currently. The applicant is currently using a Shively 6600 series FM antenna with a configuration of 6-bays, full-wave spaced between elements (horizontally only). At a depression angle of 90 degrees, the relative field is 0.000. At two (2) meters above ground level, the power density would be 0.000 mW/cm², which would be within the guidelines for controlled/occupational and uncontrolled/general public limits.

$$96.0 \text{ kW(ERP)} * 0.000 \text{ (relative field at Nadir)} = 0.0 \text{ kW}$$

Should anyone be required to climb the tower, the transmitter power will be reduced or completely shut off, whichever is necessary, to prevent hazardous exposure to radiofrequency radiation.