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Federal Communications Commission
Media Bureau
445 12th Street SW
Washington, DC 20554

Dear Sir,

This will serve as the exhibit for the RF Radiation Hazard calculation for this proposed facility.

The RF radiation near the ground (2 meters above ground) can be calculated using the OET-65 formula for broadcast television stations taking into account the following factors

        S= power density in watts per square meter

        P= total Effective Radiated Power from the antenna

        F= field radiated on the axis to the ground level

        R= distance to the ground level (actually 2 meters above ground)

Therefore, given the following data for the proposed facility:

P= 15 kwatts

R=Radiation center above ground level – 2 meters)
  = 146 meters

F= 0.1 for UHF antennas

The RF radiation near the ground level can be calculated with the following result:

0.24 μwatts/cm^2

which is 0.07 % of the general population exposure limit of 347μw/cm^2

In addition to the proposed facility, KWWT has its license on the same tower. Therefore, the RF radiation from the proposed facility must be added to the radiation calculated for the existing licensed facility. The calculation for existing licensed facility for KWWT is given by :

P= 270 kwatts

R=Radiation center above ground level – 2 meters)
  = 146 meters

F= 0.1 for UHF antennas

The RF radiation near the ground level can be calculated with the following result:

2.12 μwatts/cm^2

which is 0.56 % of the general population exposure limit of 380 μw/cm^2

The total RF radiation can be determined by summing the licensed facility and the proposed facility. As such, the predicted RF exposure is 0.07 % + 0.56 % = 0.63 % of the general population exposure limit.

Should you have any questions regarding this information please contact me.

Sincerely,

Greg Best
President