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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:

P= 125 kwatts

R=Radiation center above ground level – 2 meters)
= 24.7 meters

F= 0.1 for UHF antennas

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

34.21 μwatts/cm^2

which is 10.35 % of the general population exposure limit of 330 μw/cm^2.

RF EXPOSURE FROM COSITED FACILITIES
In addition to the RF exposure from the proposed facilities of this application, KSAO-LP is operated from the same site. The same analysis applied to those licensed facilities results in an existing RF exposure of 2.93 % of the General Population Exposure Limit. Also, FM station KRXQ is operating with 50 kW ERP at an RCAGL of 84 meters and two translator applications are planned to operate each with 50 watts at an RCAGL of 30 meters. The FM model software on the FCC website was used to predict the RF exposure from the FM stations. The estimated RF exposure is 17.1 % of the General Population Exposure limit from these FM stations.

Therefore, the RF exposure prediction from the combined facilities (Proposed plus KSAO-LP plus FM) results in the amount of 10.35 + 2.93 + 17.1 = 30.48 % of the General Population Exposure limit at the proposed site.

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

Sincerely,

Greg Best
President