GREG BEST
CONSULTING, INC.

9223 N. Manning Avenue
Kansas City, MO 64157
816-792-2913

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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= 10.3 kwatts

R=Radiation center above ground level – 2 meters)
   = 25   meters

F= 0.1 for UHF antennas

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

5.58 µwatts/cm^2

which is 1.23 % of the general population exposure limit of 455 µw/cm^2

In addition to the proposed facility, KSTV has facilities located on the same tower. The total RF exposure can be determined by summing the two RF exposures. The RF exposure from KSTV can be calculated by

P= 150 kwatts

R=Radiation center above ground level – 2 meters)
   = 25 meters

F= 0.1 for UHF antennas

The RF radiation near the ground level can be calculated with the following result:
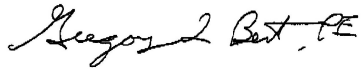
40.7 µwatts/cm^2

which is 10.5 % of the general population exposure limit of 390 µw/cm^2

The total RF exposure is computed from summing the two RF exposure levels, or, 1.23 + 10.5 = 11.73% of the General Population Exposure Limit.

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

Sincerely,

President