GREG BEST
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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= 35 kwatts

R=Radiation center above ground level – 2 meters)
  = 48 meters

F= 0.1 for UHF antennas

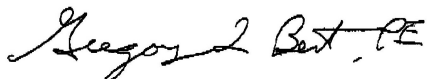The RF radiation near the ground level can be calculated with the following result:

5.1 μwatts/cm^2

which is 1.2 % of the general population exposure limit of 420 μw/cm^2

Performing the same calculations using the actual antenna elevation pattern yielded a maximum angle of radiation at 63 degrees from horizontal and an associated ERP of 500 watts at this angle. Using this information and the height above ground level for the radiation center, the maximum field yielded a power density of 5.74 μwatts at a distance of 24 meters from the tower. This is 1.4% of the General Population Exposure limit for the channel of interest.

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

Sincerely,

President