

**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= 10 kwatts

R=Radiation center above ground level – 2 meters)
= 20.2 meters

F= 0.1 for UHF antennas

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

4.1 $\mu\text{watts}/\text{cm}^2$

which is 0.9 % of the general population exposure limit of 460 $\mu\text{w}/\text{cm}^2$

There is one other broadcast facility located on this tower. WGEN-D has an STA and operates at 34 watts at a height of 25 meters on channel 12. Using the same method as above:

P= 34 watts

R=Radiation center above ground level – 2 meters)
= 23 meters

F= 0.2 for VHF antennas

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

0.09 $\mu\text{watts}/\text{cm}^2$

which is 0.04 % of the general population exposure limit of $200 \mu\text{w}/\text{cm}^2$.

The combined RF exposure is 0.9 % from the proposed facilities and 0.04 from the existing facilities which yields 0.94 % of the GPE limit.

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

Sincerely,

Greg Best
President