

**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 for the proposed facility:

P= 2 kwatts

R=Radiation center above ground level – 2 meters)
= 277 meters

F= 0.1 for UHF antennas

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

0.01 $\mu\text{watts}/\text{cm}^2$

which is less than 0.01 % of the general population exposure limit of 431 $\mu\text{w}/\text{cm}^2$ for this channel.

In addition to the proposed facilities, there is another source of RF radiation on the same tower. In particular, radiation comes from the authorized facility for WDKA. The contribution from this source is calculated below and then summed with the RF radiation from the proposed facility to get the total RF exposure for this tower.

WDKA (DIGITAL)

P= 1000 kwatts

R=Radiation center above ground level – 2 meters)
= 280 meters

F= 0.1 for UHF antennas

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

4.26 $\mu\text{watts}/\text{cm}^2$

which is 0.94 % of the general population exposure limit of 455 $\mu\text{w}/\text{cm}^2$ for channel 49

TOTAL RF EXPOSURE

The total RF exposure can be obtained by summing the individual percentages. Thus the total RF exposure predicted is $0.01+0.94= 0.95$ % of the General Population Exposure limit. This calculation indicates the RF exposure meets the OET-65 requirements.

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

Sincerely,

A handwritten signature in black ink, appearing to read "Margaret L. Best, PE". The signature is fluid and cursive, with the initials "PE" clearly visible at the end.

President