

**GREG BEST
CONSULTING, INC.**

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February 11, 2015

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 channel 16 facility:

P= 9.55 kwatts

R=Radiation center above ground level – 2 meters)
= 81.3 meters

F= 0.1 for UHF antennas

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

0.48 $\mu\text{watts}/\text{cm}^2$

which is 0.15 % of the general population exposure limit of 323 $\mu\text{w}/\text{cm}^2$ for this channel 16 facility.

In addition to this proposed facility, another facility on the tower is licensed to radiate a power level of 15 kW on channel 15, at the same height as the channel 16 facility. Thus the maximum amount of power at ground level can be found by adding the RF exposure level percentages from the two facilities together.

Thus, given the following data for the licensed channel 15 facility:

P= 15 kwatts

R=Radiation center above ground level – 2 meters)
= 81.3 meters

F= 0.1 for UHF antennas

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

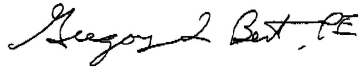
0.76 $\mu\text{watts}/\text{cm}^2$

which is 0.24 % of the general population exposure limit of 319 $\mu\text{w}/\text{cm}^2$ for this channel 15 facility.

The total amount of RF radiation exposure is $0.24 + 0.15 = 0.39$ % of the maximum general population exposure limit and does not constitute an RF radiation hazard according to OET-65.

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

Sincerely,

A handwritten signature in black ink that reads "Gregory L. Best, PE". The signature is written in a cursive, flowing style.

President