

**GREG BEST
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November 13, 2011

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= 3.0 kwatts

R=Radiation center above ground level – 2 meters)
= 554 meters

F= 0.2 for VHF antennas

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

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

which is 0.01 % of the general population exposure limit of 200 $\mu\text{w/cm}^2$ for this channel.

In addition to the proposed facility above, there is an existing DTV station located on the same tower that will contribute RF exposure. The calculations below indicate the contribution from WDBB-DT located on the same tower.

WDBB-DT Channel 18

P= 350 kwatts

R=Radiation center above ground level – 2 meters)
= 597 meters

F= 0.1 for UHF antennas

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

0.33 $\mu\text{watts/cm}^2$

which is 0.1% of the general population exposure limit of 331 $\mu\text{w/cm}^2$ for this channel.

To determine the total RF exposure, the percentages from the calculations are summed together. Thus the total RF exposure is $0.1 + 0.01 = 0.11$ % of the general population exposure limit.

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

Sincerely,

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

President