

**GREG BEST  
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Federal Communications Commission  
Media Bureau  
445 12<sup>th</sup> 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= 40 watts

R=Radiation center above ground level – 2 meters)  
= 83.0 meters

F= 0.1 for UHF antennas

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

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

which is 0.00 % of the general population exposure limit of 339  $\mu\text{w}/\text{cm}^2$  for this channel 20 facility

In addition, station WIVT-DT is located on the same tower as the proposed facility. Thus, the RF exposure of this station must also be determined for a comparison/addition basis.

Therefore, given the following data for the WIVT-DT facility:

P= 345 kwatts

R=Radiation center above ground level – 2 meters)  
= 162 meters

F= 0.1 for UHF antennas

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

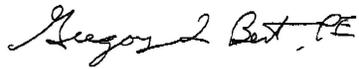
4.5  $\mu\text{watts}/\text{cm}^2$

which is 1.14 % of the general population exposure limit of  $395 \mu\text{w}/\text{cm}^2$  for this channel 34 facility

The proposed facility 0.0% combined with the 1.14 % from the other broadcast facility on this tower will result in far less than the OET-65 General Population Exposure limit for these facilities. Thus this facility can be excluded from any environmental assessment based upon RF exposure.

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

Sincerely,

A handwritten signature in cursive script that reads "Gregory L. Best, PE".

President