

# **GREG BEST CONSULTING, INC.**

9223 N. Manning Avenue  
Kansas City, MO 64157  
816-792-2913

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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 KVHF:

P= 15 kwatts

R=Radiation center above ground level – 2 meters)  
= 34.5 meters

F= 0.1 for UHF antennas

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

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

which is 0.98 % of the general population exposure limit of 430  $\mu\text{w/cm}^2$

In addition to the proposed facilities, there are other sources of RF radiation on that tower. In particular, radiation comes from KBID-LP, and KJEO. The contributions from each source are calculated below and then summed to get the total RF exposure for this tower.

## **KJEO-LP**

P= 150 kwatts

R=Radiation center above ground level – 2 meters)  
= 26 meters

F= 0.1 for UHF antennas

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

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

which is 9.54 % of the general population exposure limit of 390  $\mu\text{w}/\text{cm}^2$

**KBID-LP**

P= 150 kwatts

R=Radiation center above ground level – 2 meters)  
= 26 meters

F= 0.1 for UHF antennas

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

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

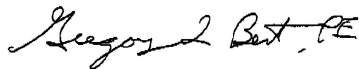
which is 9.64 % of the general population exposure limit of 380  $\mu\text{w}/\text{cm}^2$

**TOTAL RF EXPOSURE**

The total RF exposure can be obtained by summing the individual percentages. Thus the total RF exposure predicted is  $0.98 + 9.64 + 9.54 = 20.16$  % of the General Population Exposure limit. Therefore, the site exposure meets the OET-65 requirements.

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

Sincerely,



President