

**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 **KYUM** (proposed):

P= 15 kwatts

R=Radiation center above ground level – 2 meters)  
= 27 meters

F= 0.1 for this UHF antenna

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

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

which is 2.16 % of the general population exposure limit of 320  $\mu\text{w}/\text{cm}^2$  for this channel of operation.

In addition to the RF radiation from KYUM, another facility is located on the same tower. The station is K52EG. To determine the total RF exposure for this site, the individual percentages may be added. Therefore, the RF exposure from K52EG (BLTTL19981120JA) may be determined as follows:

**K52EG**

P= 1.24 kwatts

R=Radiation center above ground level – 2 meters)  
= 19 meters

F= 0.1 for the UHF antenna

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

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

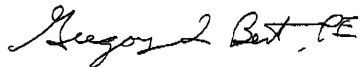
which is 0.12 % of the general population exposure limit of  $470 \mu\text{w}/\text{cm}^2$  for this channel of operation.

#### **TOTAL RF EXPOSURE ANALYSIS**

The total RF exposure level can be calculated as  $2.16 + 0.12 = 2.28$  % 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" clearly visible at the end.

President