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July 22, 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 36 digital facility:

P= 1.52 kwatts

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

F= 0.1 for UHF antennas

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

132 $\mu\text{watts}/\text{cm}^2$

which is 32.7 % of the general population exposure limit of 403 $\mu\text{w}/\text{cm}^2$ for this channel 36 facility

There are 2 other transmission facilities contributing to the RF exposure at this site, K16HP & K51DR. The sum of each of the RF exposure percentages from all 3 sources will be calculated to determine if the site may require an environmental assessment based upon the RF exposure.

Therefore for K16HP-D, channel 16

P= 3.28 kwatts

R=Radiation center above ground level – 2 meters)
= 3 meters

F= 0.1 for UHF antennas

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

122 $\mu\text{watts}/\text{cm}^2$

which is 37.7 % of the general population exposure limit of 323 $\mu\text{w}/\text{cm}^2$ for this channel 16 facility

Therefore for K51DR-D, Digital channel 51,

P= 270 watts

R=Radiation center above ground level – 2 meters)
= 3 meters

F= 0.1 for UHF antennas

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

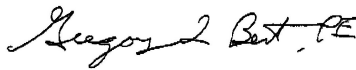
10.0 $\mu\text{watts}/\text{cm}^2$

which is 2.16 % of the general population exposure limit of 463 $\mu\text{w}/\text{cm}^2$ for this channel 51 facility

The total RF exposure is calculated by summing all the percentages and this result is 32.7 + 37.7 + 2.16 = 72.56% of the General Population Exposure limit. Thus the OET-65 limits are not exceeded and this facility may be excluded from an environmental analysis.

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

Sincerely,



President