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Federal Communications Commission
Media Bureau
445 12th Street SW
Washington, DC 20554

Dear Sir,

In addition to the above predicted exposure from the proposed facilities, there are two other existing radiators on the same tower. The sum of all the individual radiations will be added to the above result to analyze the combined RF exposure. Specifically, KJEO-LP and KBID-LP are licensed stations on the same tower. The next few analyses will determine worst case RF exposure from these sources and then the sum of the RF exposure from the total will be computed.

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:

P= 335 kwatts

R=Radiation center above ground level – 2 meters)
= 29 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 30.7 % of the general population exposure limit of 430 $\mu\text{w}/\text{cm}^2$ for this frequency

KJEO-LP (Analog Ch 32)

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 9.5 % of the general population exposure limit of 390 $\mu\text{w}/\text{cm}^2$

KBID-LP (Analog Ch 31)

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 9.6 % of the general population exposure limit of 380 $\mu\text{w}/\text{cm}^2$

The total RF exposure may be determined by the addition of the various percentages of the GPE limits. Therefore the total RF exposure is determined to be

30.7+ 9.5 + 9.6 = 49.8 % of the GPE limit.

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

Sincerely,



President