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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:

P= 300 watts

R=Radiation center above ground level – 2 meters
= 48 meters

F= 0.2 for VHF antennas

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

0.17 μwatts/cm^2

which is 0.09 % of the general population exposure limit of 200 μw/cm^2

There are other broadcast facilities located on the same tower. The specific RF exposure from those existing facilities can be calculated and summed with the proposed facilities.

K55KD

P= 9.98 kwatts

R=Radiation center above ground level – 2 meters
= 39 meters

F= 0.1 for UHF antennas

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

1.09 μwatts/cm^2

which is 0.23 % of the general population exposure limit of 480 μw/cm^2

KTAV-LP
P= 9.98 kwatts

R=Radiation center above ground level – 2 meters
= 39 meters

F= 0.1 for UHF antennas

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

1.09 μwatts/cm^2

which is 0.20 % of the general population exposure limit of 540 μw/cm^2

KDOC
P= 1000 kwatts

R=Radiation center above ground level – 2 meters
= 96 meters

F= 0.1 for UHF antennas

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

36.4 μwatts/cm^2

which is 9.39 % of the general population exposure limit of 390 μw/cm^2

KAZA-TV
P= 2290 kwatts

R=Radiation center above ground level – 2 meters
= 111 meters

F= 0.1 for UHF antennas

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

31.0 μwatts/cm^2

which is 6.52 % of the general population exposure limit of 480 μw/cm^2

KXLA-DT
P= 1000 kwatts

R=Radiation center above ground level – 2 meters
= 84.2 meters

F= 0.1 for UHF antennas

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

47.1 μwatts/cm^2

which is 10.2 % of the general population exposure limit of 460 μw/cm^2

KXLA-TV
P= 2354 kwatts

R=Radiation center above ground level – 2 meters
= 96 meters

F= 0.1 for UHF antennas

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

42.5 μwatts/cm^2

which is 9.77 % of the general population exposure limit of 440 μw/cm^2

KOCE-TV
P= 2354 kwatts

R=Radiation center above ground level – 2 meters
= 98 meters

F= 0.1 for UHF antennas

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

42.5 μwatts/cm^2

which is 9.26 % of the general population exposure limit of 460 μw/cm^2

New LD applications
There are two applications with identical ERP and radiation center above ground level. Each has an ERP of 400 watts and an RCAGL of 20.2 meters. The respective channels are 22 and 46. If these applications are granted and equipment is installed, the RF radiation near the ground level can be calculated with the following results:

0.41 μwatts/cm^2 and 0.12 % for channel 22, and 0.41 μwatts/cm^2 and 0.09 % for channel 46.

TOTAL RF EXPOSURE PREDICTION

The total amount of RF exposure for this facility may be calculated by adding the individual percentages. In this case the total percentage of the GPE limit is 45.67 %

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

Sincerely,

Greg Best
President