

**GREG BEST
CONSULTING, INC.**

16100 Outlook Avenue
Stilwell, KS 66085
816-792-2913

March 2, 2023

Dear Sir,

This will serve as the exhibit to confirm that no significant Environmental Impact Assessment as defined in FCC Rule 1.1307 for the proposed facility is necessary. The site is not an Native American religious site, nor located in a flood plain area, nor officially designated wilderness area, nor officially designated wildlife preserve. Likewise, the proposed change of the facility does not include any lighting changes, nor creates any land disturbance or surface features to the existing facility.

To ensure the proposed facility does not create an RF Radiation Hazard, the calculation for this proposed facility is shown below. 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 facility:

P= 14.4 kwatts

R=Radiation center above ground level – 2 meters)
= 2.57 meters

F= 0.1 for UHF antennas

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


648 $\mu\text{watts/cm}^2$

which is 37 % of the Controlled & Occupational exposure limit of 347 $\mu\text{w/cm}^2$ for this channel 22 facility

Since the contribution from this RF source is less than the Occupational/Controlled Exposure limit at any point on the ground, the proposed facility is required to have a fence to eliminate general population access, RF Exposure procedures for personnel inside the fence, and appropriate signage placed at the facility. This is covered in OET Bulletin 65, Edition 97-01. The licensee, in coordination with the other users of the antenna facility, will ensure these requirements are met and will also reduce power or cease operation as necessary to protect persons having access to the tower or antenna from RF energy in excess of the FCC guidelines.

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

Sincerely,



Consulting Engineer