GREG BEST
CONSULTING, INC.

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

May 13, 2021

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 a 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 calculated 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 for KXLA with Sharee KJLA:

P= 1000 kwatts

R=Radiation center above ground level – 2 meters)
  = 85.8 meters

F= 0.1 for UHF antennas

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

45.4 µwatts/cm^2

which is 12.0 % of the general population exposure limit of 379 µw/cm^2 for this channel 30 facility

Also located on the same tower are KOST-FM and KSCI (aux. license). The RF contributions from these facilities are calculated next and are added to the calculation for KXLA on a percentage basis.

KSCI. CH 18

Given the following data for the KSCI AUX facility:

P= 125 kwatts

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

F= 0.1 for UHF antennas

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

11.5 μwatts/cm^2

which is 3.48 % of the general population exposure limit of 331 μw/cm^2 for this channel 18 facility

KOST-FM

The worst case RF exposure from the FM antenna for KOST at the ground level may be calculated using the FCC OET FM Model program. With the ERP of 11.5 kW (in both polarizations) and the radiation center of 112 m the worst case RF exposure is 5.5 uW or 2.75% of the GP exposure limit for this frequency range.
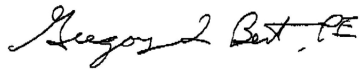
Total RF Exposure

The total RF exposure can be calculated by summing the percentages from each source. Thus the total RF exposure from all sources is 12.0 + 3.48 + 2.75 = 18.23 % of the General Population Exposure limit as identified in OET-65.

The contribution from all RF sources is less than the MPE limit for Occupational/Controlled Exposure or General Population/Uncontrolled Exposure at any point on the ground. The licensee for both KXLA and KJLA, in coordination with the other users of the antenna facility, will 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