

**GREG BEST
CONSULTING, INC.**

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

September 1, 2021

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

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.

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= 3 kW

R=Radiation center above ground level – 2 meters)
= 26.2 meters

F= 0.2 for VHF antennas

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

5.84 $\mu\text{watts/cm}^2$

which is 2.92 % of the general population exposure limit of 200 $\mu\text{w/cm}^2$ for this channel 9 facility

In addition to the proposed facilities, there are other sources of RF radiation on that tower. In particular, radiation comes from KMCF-LD (CP), KJKZ-LD, K17JI, KJEO-LD, KMSG-LD, & KMAK (FM). The contributions from each source are calculated below using the formula from OET-65 except for KMAK and then summed to get the total RF exposure for this tower. The RF exposure for KMAK was calculated knowing the antenna type, and using the FM Model RF exposure calculator from the FCC FM website.

The following table represents the pertinent facts regarding the RF Exposure calculations that were executed for other broadcast station radiators located at this facility.

STATION	RCAGL (FT)	ERP (KW)	CHANNEL	POWER DENSITY (uW/cm ²)	Percentage of GPE Maximum Limit
Proposed Facility	92.5	3	9	5.84	2.92
KMCF	79	6	6	16.4	8.22
KJKZ	85	3	12	3.51	1.76
K17JI	106	15	17	2.73	0.83
KJEO	152	15	14	1.27	0.4
KMSG	106	15	29	2.73	0.73
KMAK	49	.072	FM	6.16	3.08

TOTAL RF EXPOSURE

The total RF exposure can be obtained by summing the individual percentages. Thus the total RF exposure predicted is $2.92 + 8.22 + 1.76 + 0.83 + 0.4 + 0.73 + 3.08 = 17.94$ % of the General Population Exposure limit and the RF exposure meets the OET-65 requirements.

The licensee, 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,



President