

Technical Statement
and Exhibits
in support of a
Minor Modification to
Commercial FM Translator
K235BK (FID #142082)

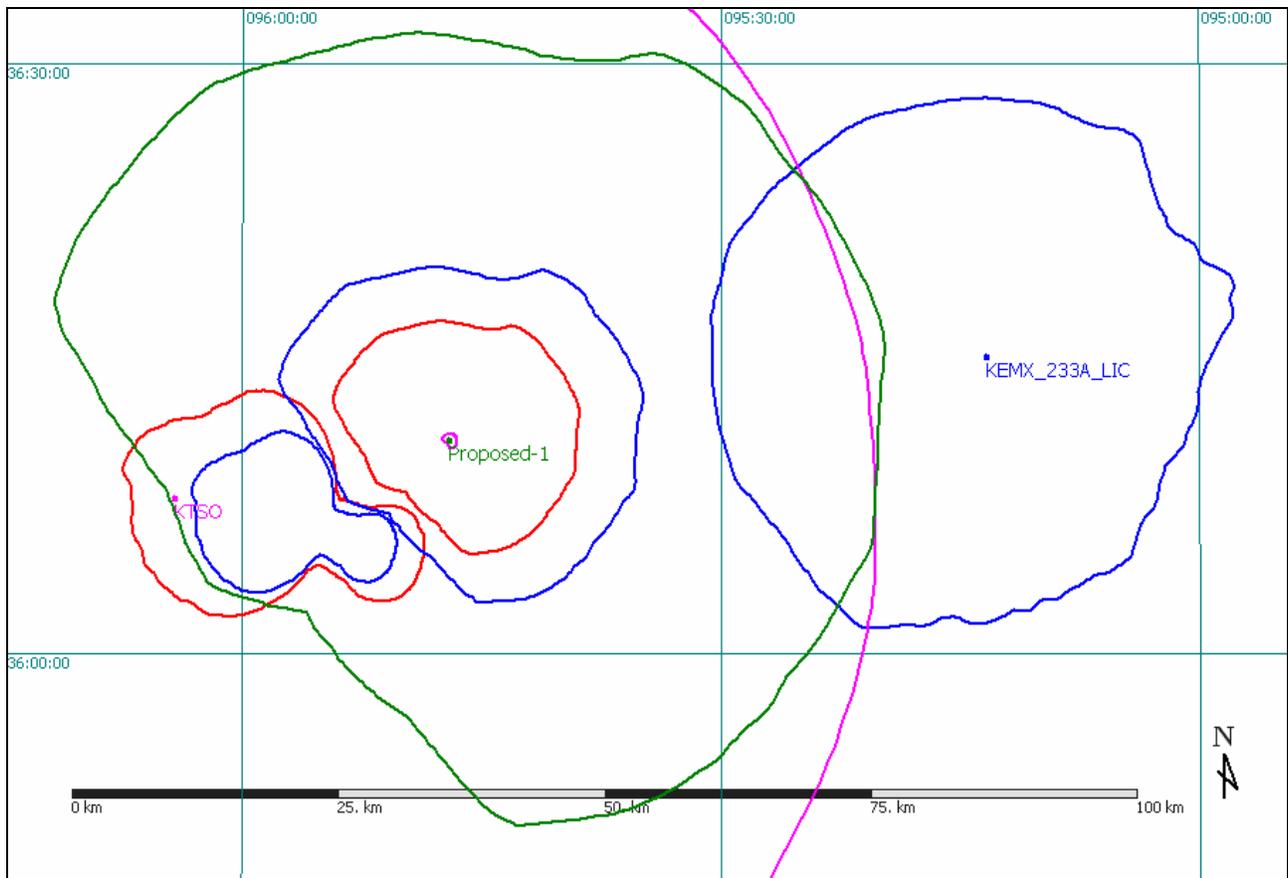
Tulsa, OK

EXHIBIT III-12

INTERFERENCE AND OVERLAP REQUIREMENTS FM TRANSLATOR K235BK (FID #142082) CHANNEL 234 TULSA, OK

The following study illustrates that the proposed facility will not create prohibited overlap to any other licensed facility or pending application other than to third-adjacent KTSO, Glenpool (FID #28850). As more fully demonstrated below, the instant application may be processed pursuant to 47 C.F.R. § 74.1204(d) in regards to KTSO.

The green contours represent co-channel interfering (40 dBu) to co-channel protected (60 dBu) contours. Blue contours represent first-adjacent channel interfering (54 dBu) to first-adjacent protected (60 dBu) contours. Magenta contours represent second and third-adjacent channel interfering (100 dBu) to second and third-adjacent protected (60 dBu) contours. Red contours represent co-channel protected (60 dBu) to co-channel interfering (40 dBu) contours.



The proposed facility is located within the protected 60 dBu contour of third-adjacent station KTSO. The predicted F50,50 field strength of the licensed KTSO facility at the proposed translator site is 80 dBu. Therefore, the respective predicted interfering contour generated by this proposed modification is greater than 120 dBu. This interfering contour extends less than 70 meters from the transmit antenna. Since the antenna will be mounted 75 meters above ground level, the interfering contour will not reach the ground.

The tower is located within a fenced compound. Site visits and satellite photographs of the area were utilized to determine that no nearby structure extends within the area of predicted interference.

Since no population exists within the area of predicted interference, the Applicant respectfully submits that processing pursuant to 47 CFR § 74.1204(d) is appropriate in this instance.

EXHIBIT III-15

RF EXPOSURE ANALYSIS FM TRANSLATOR K235BK (FID #142082) CHANNEL 234 TULSA, OK

The proposed facility was evaluated in terms of potential radio frequency radiation exposure at ground level in accordance with OET Bulletin No. 65, "Evaluating Compliance With FCC-Specified Guidelines for Human Exposure to Radio frequency Radiation."

The proposed facility will on an existing tower with a radiation centerline at seventy-five meters above ground level. The Application proposes an ERP of 100 watts on Channel 234 operating with circular polarization. The facility will employ a directional single-bay PSI FML-1 antenna.

At 2 meters above the ground and 20 meters from the base of the tower supporting the antenna, this proposal will contribute 0.75454 microwatts per square centimeter, or less than 0.38 percent of the allowable ANSI limit for uncontrolled exposure. This represents 0.008 percent of the allowable limit for controlled exposure.

The tower is restricted from public access by a fence with a locked gate. Furthermore, signs are be posted in the vicinity of the antenna, warning of potential radio frequency hazards at the site. The applicant will reduce power of the facility, or discontinue operation, as necessary to limit human exposure to levels less than specified by the Federal Communications Commission should anyone be required to access the tower for maintenance or inspection.