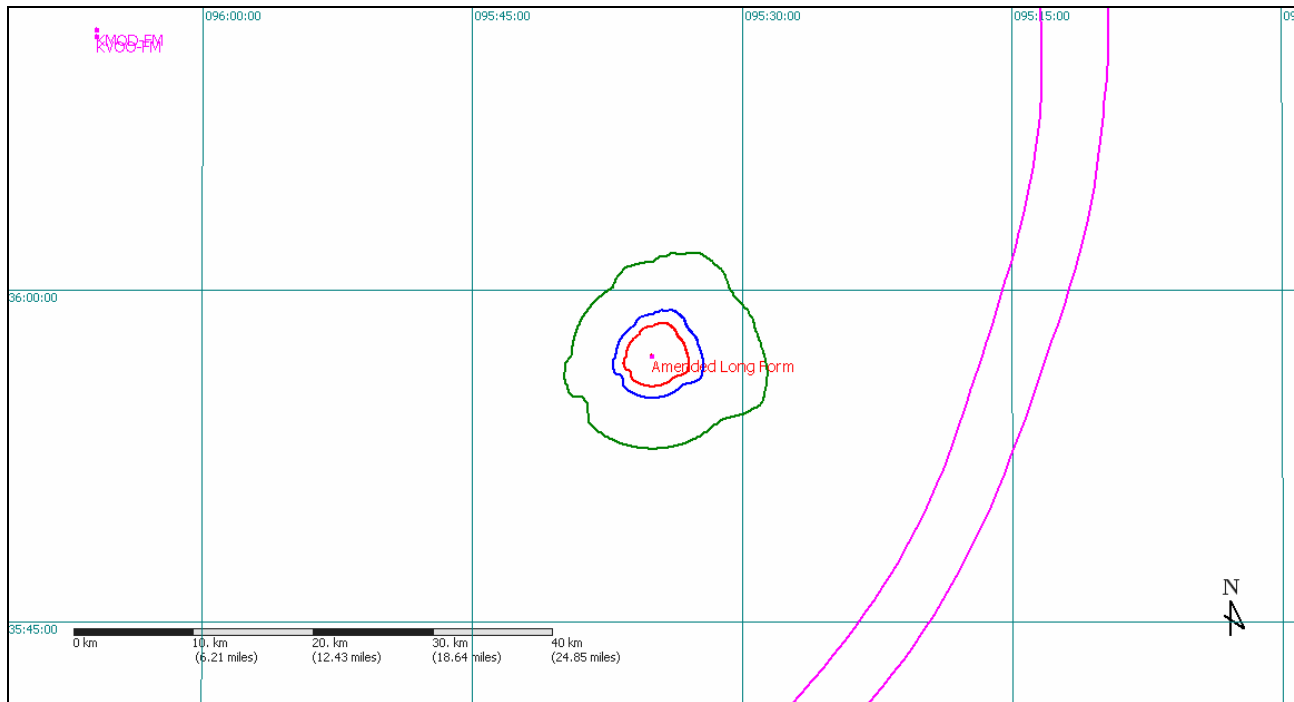


## INTERFERENCE AND OVERLAP REQUIREMENTS

### NEW COMMERCIAL FM TRANSLATOR CHANNEL 250 COWETA, 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 second-adjacent KMOD-FM, Tulsa (FID #11957) and third-adjacent KVOO-FM, Tulsa (FID #68330). As more fully demonstrated below, the instant application may be processed pursuant to 47 C.F.R. § 74.1204(d) in regards to KMOD-FM and KVOO-FM.

On the following study, 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 predicted F50,50 field strength of the licensed KMOD-FM facility at the proposed translator site is 72.4 Bu. Therefore, the respective predicted interfering contour generated by this proposed modification is greater than 112.4 dBu.

The predicted F50,50 field strength of the licensed KVOO-FM facility at the proposed translator site is 70.5 dBu. Therefore, the respective predicted interfering contour generated by this proposed modification is greater than 110.5 dBu.

Therefore, the minimum field strength generated from the proposed MF translator that is predicted to cause interference to either protected station is 110.5 dBu.

The proposed ERP for the FM translator is 2 watts. The zone of predicted interference (110.5 dBu) generated by the proposed facility 30 meters from the transmit antenna. Since the antenna will be mounted 45 meters above ground level, the zone of predicted interference will not reach the ground.

The tower is located within a fenced compound. The following satellite photograph of the area confirm that that no nearby buildings or structures extends within the very modest 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.