

# R. M. SMITH ASSOCIATES

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WILKS LICENSE COMPANY LUBBOCK – LLC  
KMMX(FM) - 262C1 - TAHOKA, TX  
APPLICATION FOR CP FOR AUXILIARY ANTENNA  
EXHIBIT 35 – ENVIRONMENTAL

The application, of which this Exhibit is a part, requests a Construction Permit to construct an auxiliary antenna for KMMX(FM), Tahoka, TX. The proposed antenna is an ERI 3 element Rototiller™ end fed with an element spacing of 116.8125 inches. The antenna will be mounted with the center of radiation at 152 meters AGL (1135.3 meters AMSL). The proposed ERP is 13.2 kW.

The antenna will be mounted on an existing tower (ASRN 1043030). No changes to the tower or ground level facilities are proposed.

The tower currently supports an ERI SHPX-10AC6 (10 elements spaced 1.0 wavelength) antenna with the center of radiation at 265 meters above ground. The antenna is utilized by KMMX(FM), 262C1, Tahoka, TX, (Facility ID 86) and co-owned KONE(FM), 266C1, Lubbock, TX, (Facility ID 26519). Both of these facilities operate with an ERP of 100 kW horizontal and vertical. No other high powered emitters are located on the tower.

The pertinent operating information (Antenna height above ground, Horizontal ERP, Vertical ERP, number of antenna bays and antenna bay spacing) for each FM facility was entered into the F.C.C. OET FMMODEL computer modeling program. The resulting fields from each of the facilities were summed under the worst-case assumption that the maximum field from each facility overlapped on the ground.

The resulting summation was compared to the maximum General Public exposure level allowed under the F.C.C. Guidelines.

KMMX(FM)	Not operating while aux is operating	
KONE(FM)	4.97 $\mu\text{W}/\text{cm}^2$	64 meters from tower
Proposed KLLL-FM Aux	4.11 $\mu\text{W}/\text{cm}^2$	75meters from tower

The summed field of  $9.08 \mu\text{W}/\text{cm}^2$  is 4.54% of the maximum allowable uncontrolled General Public field of  $200 \mu\text{W}/\text{cm}^2$ .

Wilks and its technical employees are aware that RF fields in excess of the Guidelines exist on the tower in the vicinity of the antennas and will cooperate with any other future users of the site to prevent exposure of workers to levels in excess of the Guidelines through power reduction or cessation of operation as required.

Operations of the KMMX(FM) auxiliary transmission facility will be in compliance with the F.C.C. Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields.