

Station KOZK (Facility ID: 51102) STA Engineering Statement

Request for Temporary Transmission Facility

The station requests Special Temporary Authority to operate at a post transition channel 16 at reduced power from a side mount, broadband antenna located on the KYTV tower. The station currently operates under an STA with an ERP of 94.88 kW. An increase to 153 kW is requested herein. The technical details are as follows:

Digital Channel:	16
Effective Radiated Power (ERP):	153 kW
Radiation Center Above Ground Level (RCAGL):	419.1 m
Antenna:	Directional: Dielectric TFU-16WB-S230
Mask Filter:	Full Mask
Latitude (NAD83):	37-10-26 N
Longitude (NAD83):	92-56-28.1 W
Site Elevation Above Mean Sea Level (AMSL):	471.5 m
Antenna Structure Registration:	1218324

The predicted coverage area does not exceed that of the Construction Permit service area (BLANK-0000034615) – See Figure 1.

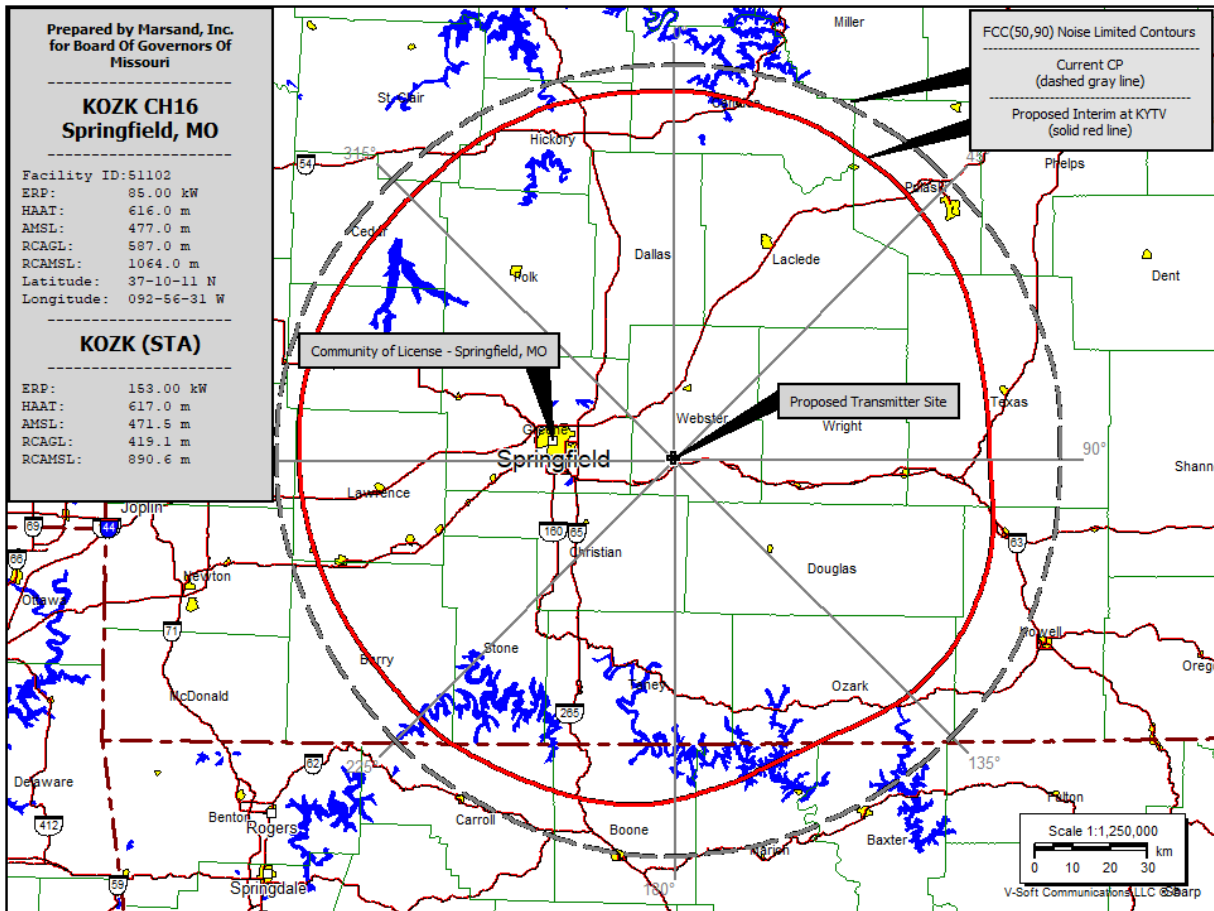


Figure 1 - Proposed STA coverage

ENVIRONMENTAL ASSESMENT

The proposed facility complies in full with the requirements of 47 C.F.R. Section 1.1306 and will have no significant environmental impact. The proposed location is on an existing, guyed structure owned by Gray Television, the KYTV parent company. The proposed site does not involve any of the conditions specified in Section 1.1307(a)(1) - (6) of the Rules.

The KOZK facility has been studied in accordance with the procedures set forth in the FCC OET Bulletin No. 65 "Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields", Edition 97-01, and has been found to comply with the limits set forth in Section 1.1310 of the Rules as shown below:

Channel Frequency	ERP (H + V)	Relative Field Factor	Distance to the Ground	Calculated Power Density 2 m above ground	ANSI Minimum Standard	
					Occupational / Controlled 1.7567 mW/cm ²	General / Uncontrolled 351.3 µW/cm ²
CH 16 485 MHz	153 kW	0.06	419.1 m	0.06 µW/cm ²	0.01 %	0.03 %

The proposed facility contributes power densities less than 5% of the exposure limit at this site and is therefore categorically excluded from further RF exposure evaluation. The Board of Governors of Missouri State University (Applicant) agrees to maintain full compliance with the safety precautions to workers on the tower (controlled) and the general public (uncontrolled) by reducing or removing radiated power during the time of construction or maintenance on or near the antenna. The Applicant also certifies that it, in coordination with other users of the site, will reduce power or cease operation as necessary to protect persons having access to the site, tower or antenna from Radiofrequency Electromagnetic exposure in excess of FCC guidelines.

The Applicant is believed to be in full compliance with the Environmental Impact and Commission Rules.

Restore Service to the Public

KOZK is the Public Broadcasting Service (PBS) affiliate for the Springfield, MO market. The proposed facility will restore service to most of the station's assigned coverage area on its new repack channel 16 and operate at the proposed 153 kW ERP until the final evaluation and plan is completed on the proposed tower to construct and operate the facility at the full power as authorized by the FCC.

Expected Duration

The station is evaluating establishing its permanent, post-transition facility on the KYTV tower. Tower study has been completed. Major tower modifications are required, and all work must be coordinated with the construction of KYTV's post-transition facility. KOZK has transitioned to its assigned repack channel 16 utilizing the same broadband antenna and line proposed herein at 94.88kW ERP. The station would operate at the increased power of 153 kW ERP until the KYTV tower modifications are completed, and the new antenna and transmission line are installed.