

Broken Arrow Catholic Radio, Inc.
Second Adjacent Channel Waiver Request
LPFM Application

The proposed facility is fully-spaced pursuant to 47 C.F.R. Section 73.807 to all other facilities other than second-adjacent KJSR (FID #9801) (the “Protected Station”). As more fully discussed below, a waiver of 47 C.F.R. 73.807 is appropriate in this instance.

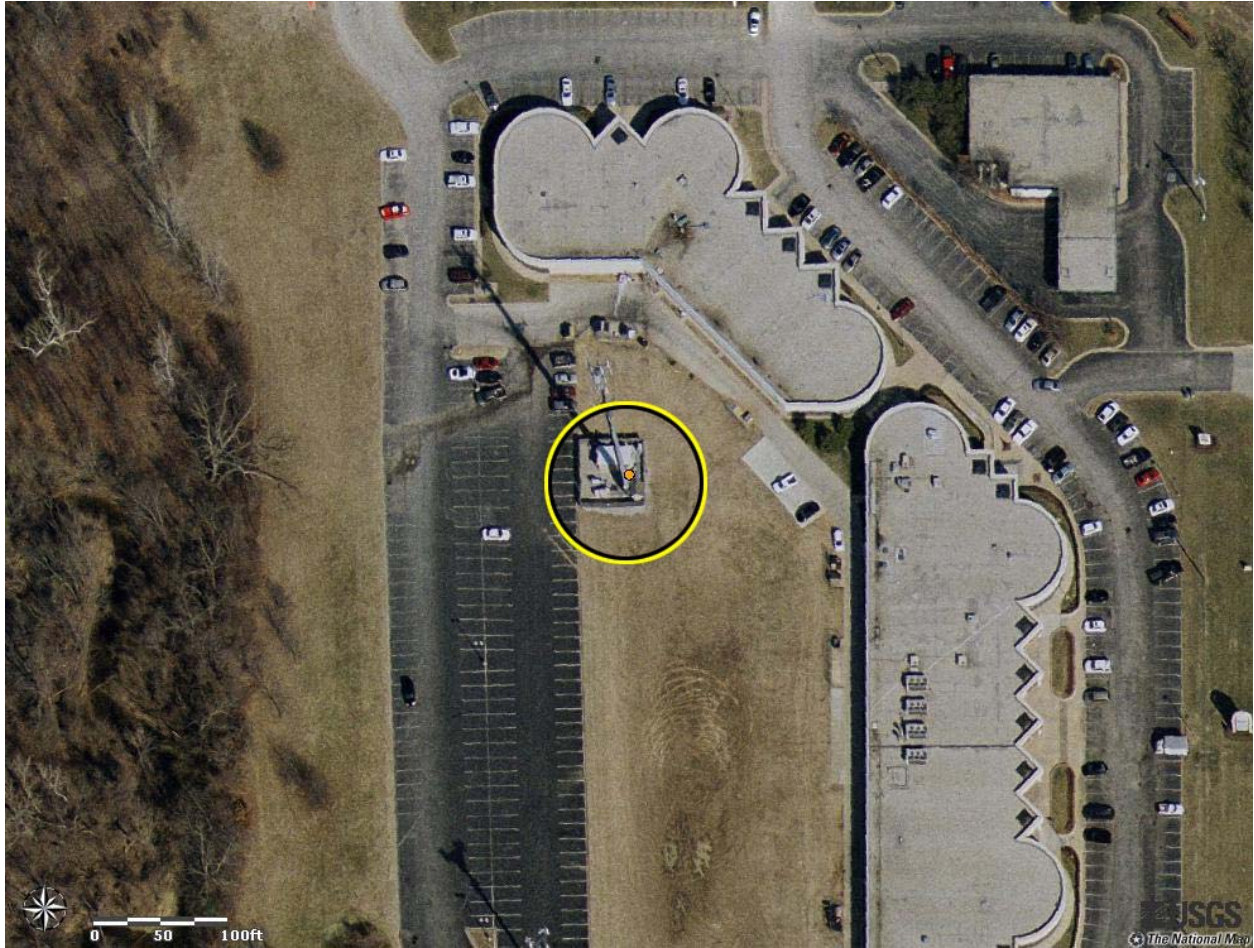
The Protected Station is authorized to broadcast with 100 kilowatts at 395 meters HAAT from a site that is 20.98 kilometers from the proposed LPFM site. The predicted strength of the Protected Station at the proposed LPFM site is 89.64 dBu. Therefore, 129.64 dBu is the lowest value predicted to cause interference to the Protected Station.

The applicant proposes to mount the antenna for the LPFM station on an existing tower at 27 meters AGL.

It is anticipated that the LPFM station will be granted an authorization to broadcast with significantly less than 100 watts ERP. The proposed height of the antenna radiation center is 244 meters AMSL. The Commission’s online Antenna Height Above Average Terrain Calculator indicates that the antenna for the proposed facility is 39 meters above the height of average terrain. Therefore, pursuant to 47 C.F.R. 73.811 the maximum effective radiated power of the LPFM station proposed herein is 59 watts.

The area of predicted interference without accounting for the elevation pattern of the antenna is only 18 meters. Since the antenna will be mounted at 27 meters AGL, the zone of predicted interference will clear the ground by 9 meters.

The aerial image on the following page demonstrates that no nearby structures penetrate the area of predicted interference.



The Applicant respectfully submits that since a lack of population exists in the area of predicted interference, a waiver of 47 C.F.R § 73.807 is appropriate for the instant application.