

KRHJ-FM
fac-id 768099
311 West Chestnut Street
Lamar, Colorado 81052
(719) 931-9400 (main)

KRHJ-FM, a non-commercial educational radio station, was granted a license minor modification to increase the power from 100 watts ERP to 500 watts ERP. The grant enables 70dBu coverage over the community of license in lieu of 60dBu.

As discussed in the application, there's not a significant difference in the population covered within the 60 dbu contour, there is within the proposed 70 dbu (city grade) contour; an increase of more than tenfold. This provides a higher quality aural service to Lamar, Colorado.
File number BLANK-0000198212, granted on 09/15/2022

KRHJ-FM actively participates with EAS, and relays other critical notifications such as school closures/delays, telephone outages, and municipal government announcements.

KRHJ-FM also has an AUX transmitter at 5 watts ERP, which is used when the main transmitter is off air for maintenance, or utility outages.
File number BLANK-0000196101, granted on 08/05/2022

As of December 2023, we have been informed the AUX transmitter site will no longer be available. The original AUX antenna, transmitter, and feedline will be removed as the site is decommissioned, audio and telemetry data paths will also be retired.

The purpose of this STA request: is to place a 2 watt ERP 88.3 FM transmitter at the studio location (Chestnut address). The original AUX antenna (Nicom BKG-77) will be relocated to the guyed/self-supported tower at the studio 15 meters above the ground.

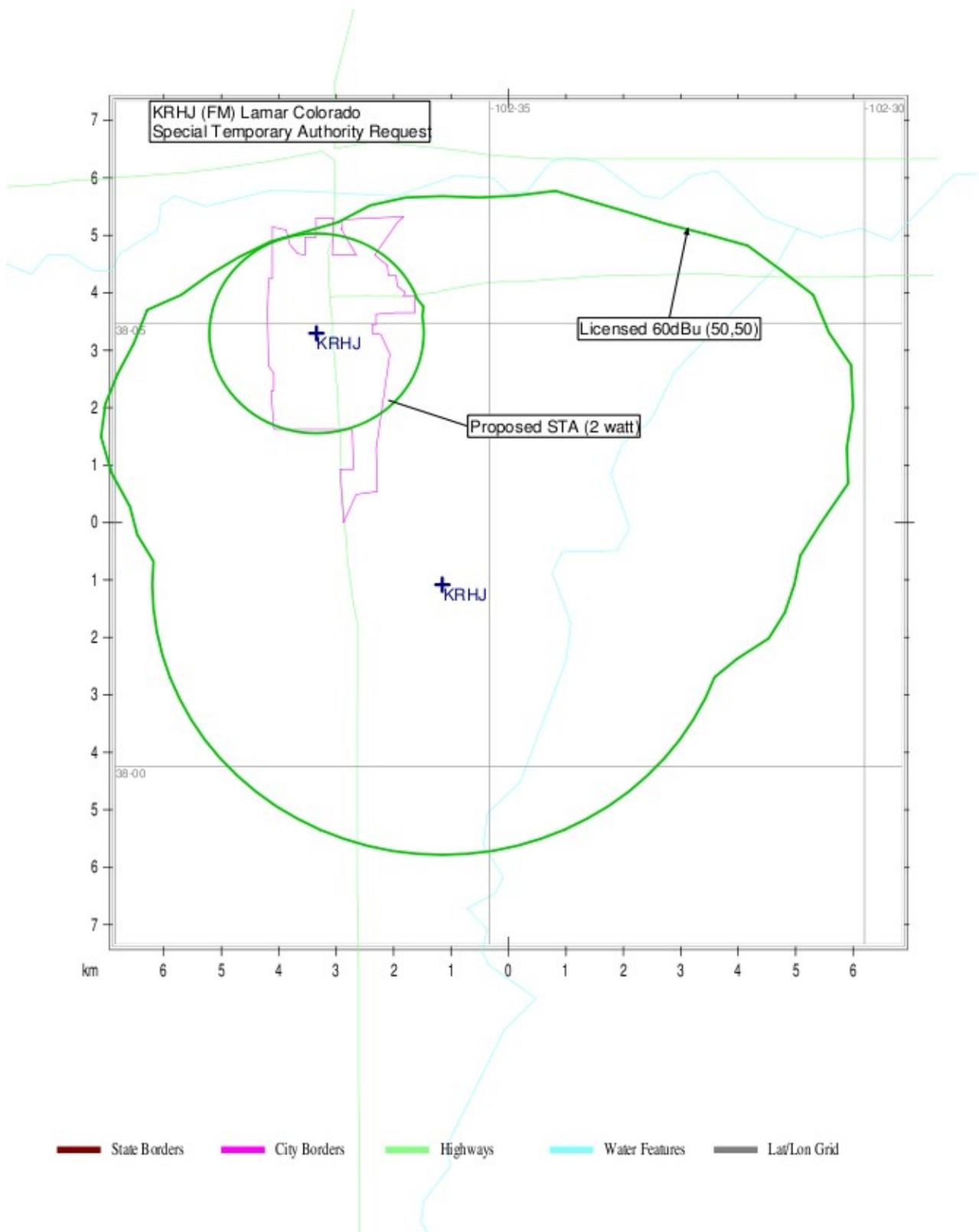
If granted, this STA would allow KRHJ-FM to continue operation within, and not extend the original 100 watt 60dBu contour, while the required tower work for BLANK-0000198212 is performed.

Upon completion of this proposed STA, KRHJ-FM will submit the appropriate application(s) for the new AUX transmitter site. That application will be based upon the parameters granted with BLANK-0000198212 after it is "licensed to cover" and the new physical location of the AUX site.

The work is not expected to consume the full six month lifespan of an STA. The 2 watt ERP greatly reduces the usable service area. This alone motivates a quick resolution, as the original goal is to provide higher quality aural service for the community of Lamar Colorado.

Kit Haskins
Director of Engineering

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Map showing the proposed 2 watt ERP transmitter within the original 100 watt ERP 60dBu contour, while the main transmitter site is upgraded to 500 watt ERP.