

## **Engineering STA**

KOND-FM, 107.5 MHz, Hanford, California

Univision Radio Stations Group, Inc.

### **Circumstances requiring STA**

Univision Radio Stations Group, Inc, licensee of KOND-FM, Hanford, CA, ("KOND" or the "Station") is hereby requesting Special Temporary Authority to operate at reduced power and an alternate site as described below.

On or about October 1, 2021, utility power to the station's Eshom Point, CA tower site was interrupted by the KNP Complex fire outside of Fresno, CA. The utility poles and distribution lines feeding the site suffered extensive fire damage. Restoration of utility power may take up to 8 weeks. The KOND-FM transmitter site and tower were not damaged; however, the station has been operating on generator power since the time of the outage.

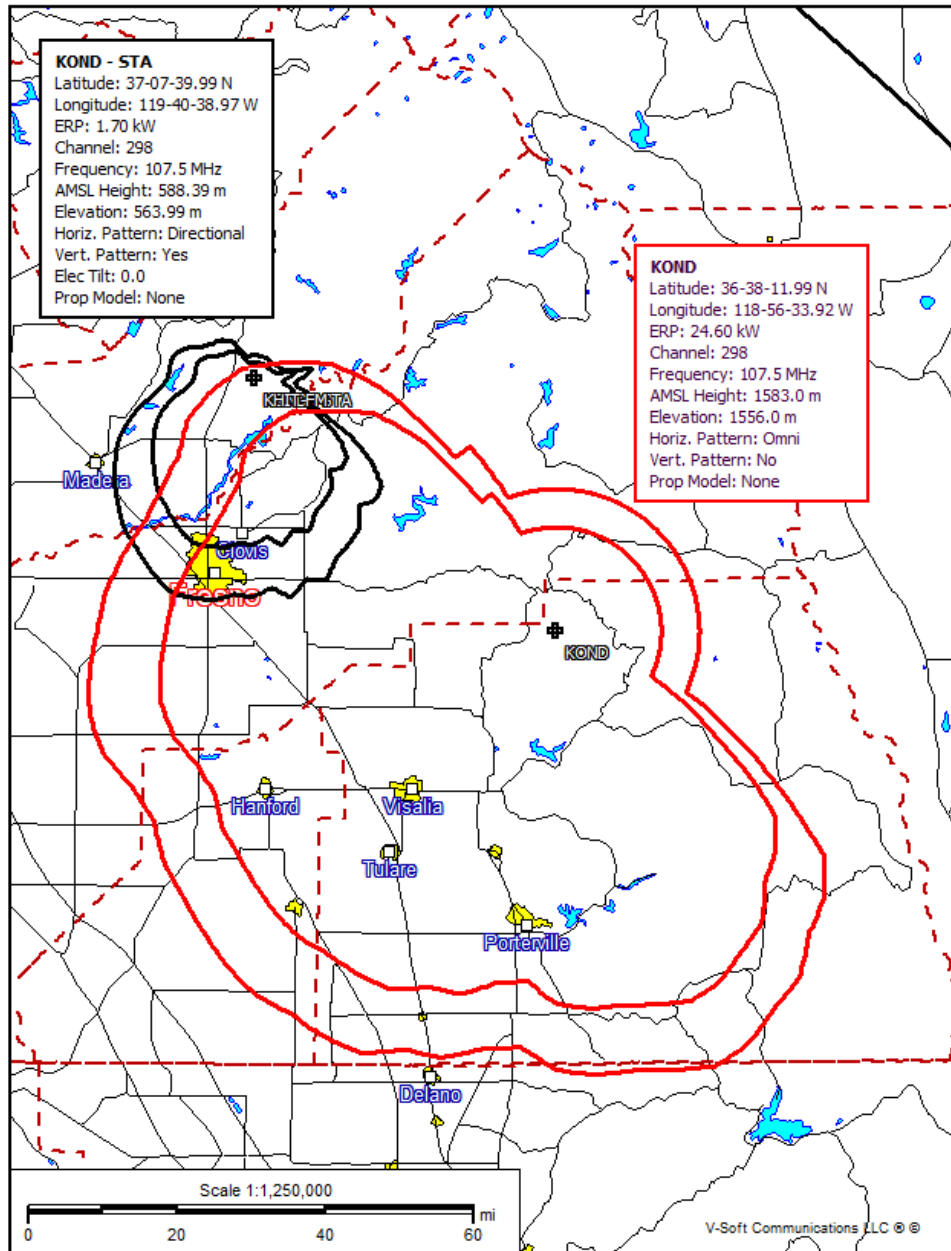
On November 10, the station temporarily transferred operation to an emergency antenna for several hours to complete required periodic generator maintenance and the Commission was notified via letter in accordance with 73.1680 of the Commission's rules.

Since it may be several weeks before utility power is restored to the Eshom Point site and ongoing maintenance will be needed for the generator serving the site, this STA is being requested to be able to continue to intermittently operate from the temporary location until utility power is restored at KOND-FM's main site at Eshom Point.

### **STA Coverage Analysis**

The temporary site is the location of both KRDA-FM (Univision) and KHIT-FM (Lotus Fresno Corp.), ASRN 1226431, coordinates 37° 7' 40" N, 119° 40' 39" W; NAD 27. Coverage analysis for the emergency letter used an antenna estimate of similar pattern since actual data was not known at the time. The emergency letter showed very little backlobe outside of KOND-FM's licensed 54 dBu contour. An updated analysis has been generated using the pattern for the antenna in use obtained from Jampro. This updated analysis shows more backlobe illumination than the estimated antenna, resulting in more signal into the Madera and Yosemite Lakes region than provided by KOND-FM's licensed operation. Since this STA is requesting intermittent operation, we request that this outside contour operation be allowed.

# KOND-FM STA Antenna Countour



## Interference

KOND and KHIT are 2<sup>nd</sup> adjacent channels and the resulting co-location of the two stations at the temporary site therefore does not meet minimum spacing guidelines.

An interference analysis was conducted and shown to be 100% interference free at the -40 dB D/U ratio for 2<sup>nd</sup> adjacent channels. However, should any interference occur, KOND will take the necessary action to correct it, including ceasing STA operation if necessary.

## RF Exposure

The temporary antenna is a 1 bay panel manufactured by Jampro, model JAHD-1/1(1). RF Exposure calculations for this antenna, ERP, and center of radiation AGL have been calculated by Jampro for this specific use case. Exposure is well below the 200  $\mu\text{W}/\text{cm}^2$  threshold for uncontrolled environments. Further detail is included in this STA application as Exhibit 3.

## Summary

We believe it is in the public interest to grant this STA to allow broadcasting to continue at a reduced service level while necessary generator maintenance activity takes place at the main site until such time as utility power can be restored.