

BROADCAST ENGINEERING CONSULTANTS

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ENGINEERING STATEMENT

Concerning an application for new fill in FM translator for AM broadcast station KNMX AM Las Vegas, New Mexico.

Sangre De Cristo Broadcasting Co. INC. is the licensee of Station KNMX and the singleton applicant for new translator in Auction 99 to fill in the coverage of KNMX file number BNPFT20170802ADO. This instant application completes the long form filing for the proposed translator to serve Las Vegas, New Mexico.

The proposed translator antenna will be located at the 22m AGL level on the existing 23m AGL tower of KMDZ-FM. The existing tower and the existing transmitter building will be used so no environmental effect is likely. The fields on the ground will be less than 2% of the OET recommended maximum public exposure and therefore will be excluded from environmental study. No employee will be allowed to climb the structure when energized and power will be reduced or operation terminated as needed when any user must service the tower or antennas.

The proposed translator meets location criteria for an AM fill in translator since the proposed 60dBu contour is completely within the KNMX 2mV/m contour as shown on the following coverage map.

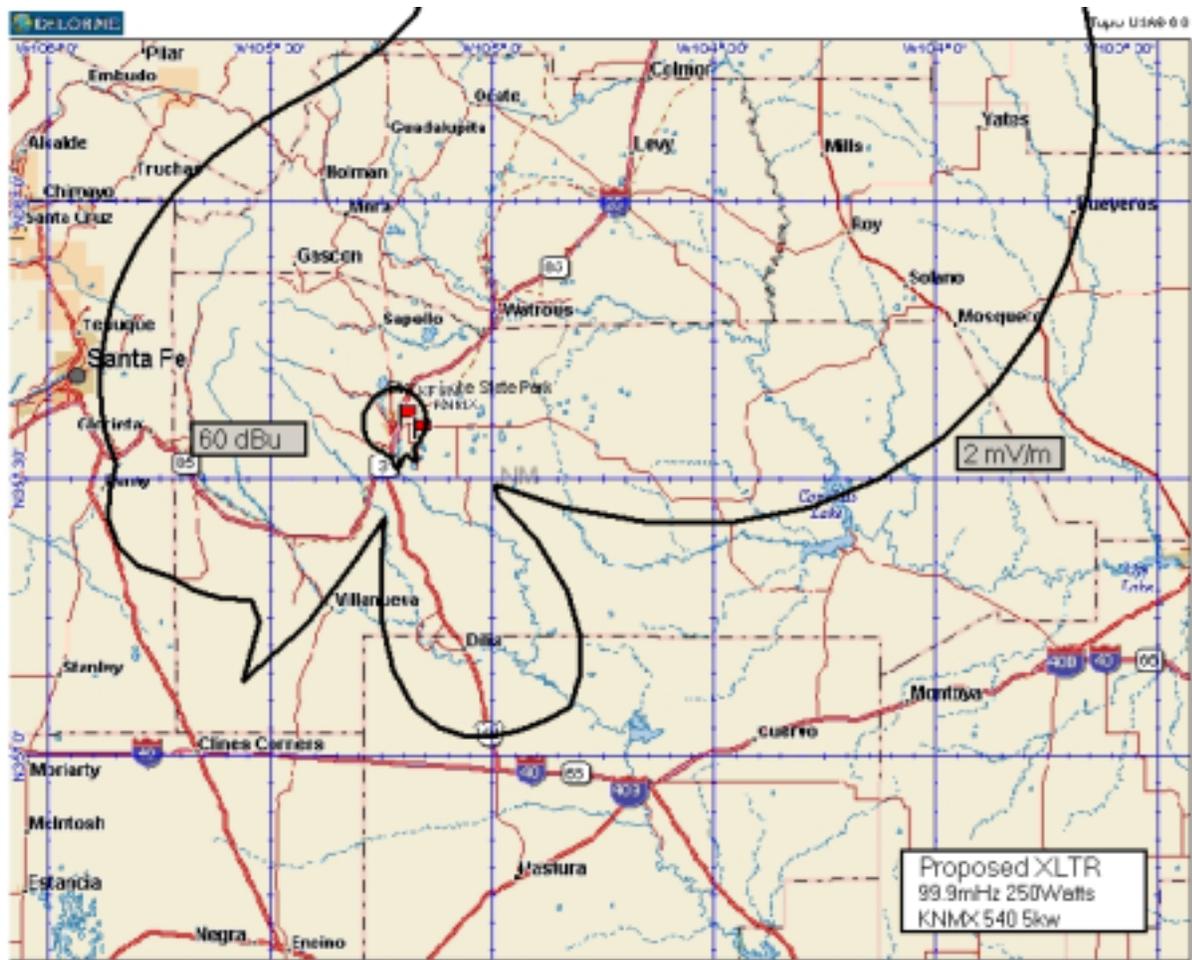
The proposed translator protects the existing 60dBu coverage of all licensed, permitted, and known proposed facilities. The proposed interference contours clear the protected contours by more than 20km in all cases. See the allocations study tabulation.

The proposed translator will provide desirable fill in service for KNMX in the public interest.

Respectfully submitted



Timothy C. Cutforth, P.E.
29 November 2017



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North Arrow
 NAD (7-8-9)

Scale Bar (0 to 28 miles)
 Data Zoom 7-0

FM Study for: K260KMDZ FCC Database Date: 11/24/2017 35-34-48
Location: LAS VEGAS, NM Channel Class: D 105-12-59

Contours calculated on direct line using 73.509(a)

[*] by Distance indicates directional antenna used in calculation.

[*] by HAAT indicates calculated as missing in database.

Call City, State Chan Class Freq kW Latitude Dist. Required
Status Proponent File Number HAAT Longitude Azm. Clear (km)

>>>>>>> Study For Channel 260 99.9 mHz <<<<<<<<

| | | | | | | | | |
|--------|--------------------|-----------------------|----------|----------|-----------|---------|-------|--------|
| KMGA | ALBUQUERQUE, NM | 258 C | 99.5 | 22.5 | 35-12-44 | 119.2 | 93 | |
| LIC | Fac. No. 11231 | BLH-7798 | | 1259` | 106-26-58 | 250.3 | +26.2 | CLEAR |
| K260KM | F(50,10) 100 dBu = | 1 km, KMGA | F(50,50) | 60 dBu = | 92 KM | +27 km | | CLEAR |
| KKTC | ANGEL FIRE, NM | 260 C2 | 99.9 | 1.75+ | 36-33-30 | 108.6 | 96 | 73.215 |
| LIC | Fac. No. 43767 | BLH-20021115ACY | | 646` | 105-11-38 | 1.1 | +12.6 | CLOSE |
| K260KM | F(50,10) 40 dBu = | 24 km, KKTC | F(50,50) | 60 dBu = | 40 KM | +45 km* | | CLEAR |
| K260CT | SANTA FE, NM | 260 D | 99.9 | .250+ | 35-42-05 | 69.2 | 44 | |
| LIC | Fac. No. 139602 | BLFT-20160926AEK | | 51* | 105-57-58 | 281.4 | +25.2 | CLEAR |
| K260KM | F(50,10) 40 dBu = | 24 km, K260CTF(50,50) | | 60 dBu = | 6 KM | +39 km* | | CLEAR |
| KTROLP | ESPANOLA, NM | 260 L1 | 99.9 | .100 | 36-00-17 | 89.8 | 50 | |
| LIC | Fac. No. 197623 | BLL-20161122AAA | | -82` | 106-03-44 | 301.9 | +40.1 | CLEAR |
| K260KM | F(50,10) 40 dBu = | 24 km, KTROLPF(50,50) | | 60 dBu = | 6 KM | +60 km | | CLEAR |
| KPEK | ALBUQUERQUE, NM | 262 C | 100.3 | 22.5 | 35-12-51 | 119.2 | 93 | |
| LIC | Fac. No. 4704 | BLH-19800117AG | | 1253` | 106-27-02 | 250.5 | +26.2 | CLEAR |
| K260KM | F(50,10) 100 dBu = | 1 km, KPEK | F(50,50) | 60 dBu = | 92 KM | +27 km | | CLEAR |