

BROADCAST ENGINEERING CONSULTANTS

Timothy C. Cutforth P.E. Director of Engineering

303-937-1900 965 S. IRVING STREET DENVER, CO 80219

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.

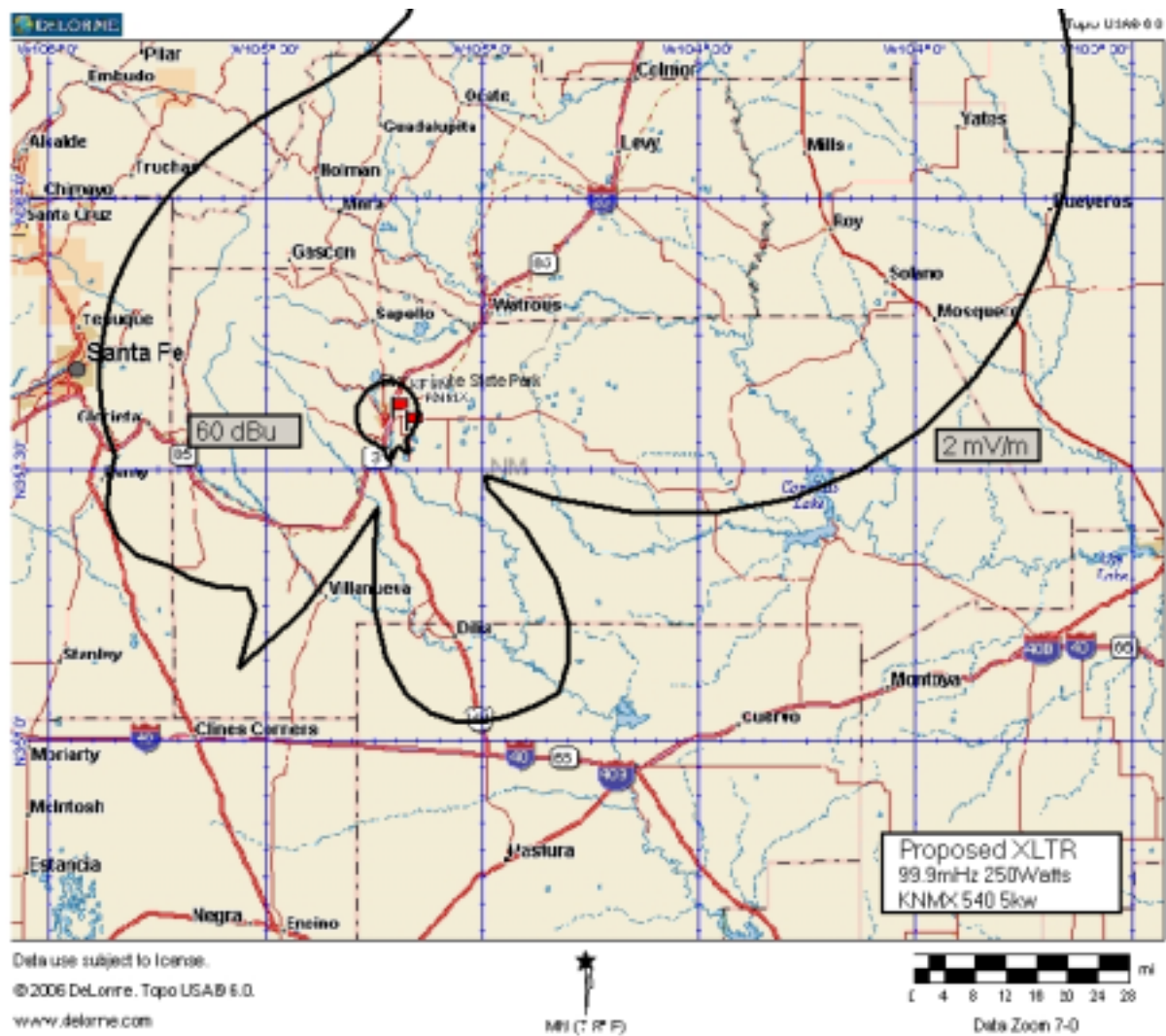
The proposed translator protects the existing 60dBu coverage of all licensed, permitted, and known proposed facilities. The proposed interference contours clear the protected contours by more than 20km in all cases. See the allocations study tabulation.

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



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