

Technical Statement
Translator K290AD
Seeks Channel 236D – 95.1 MHz
0.010 kW ERP – 2986.2 m COR AMSL
Durango, Colorado
August 2023

Minor Change Application:

Proclaiming Christ's Love Ministries, Inc., Licensee of Translator K290AD, is proposing to move the translator and change the channel to its I.F. Channel 236. The 60 dBu contour of the proposed facility overlaps the 60 dBu contour of the licensed facility, making this application a minor change. See the Minor Change Demonstration map in this exhibit.

Effective Radiated Power Calculation:

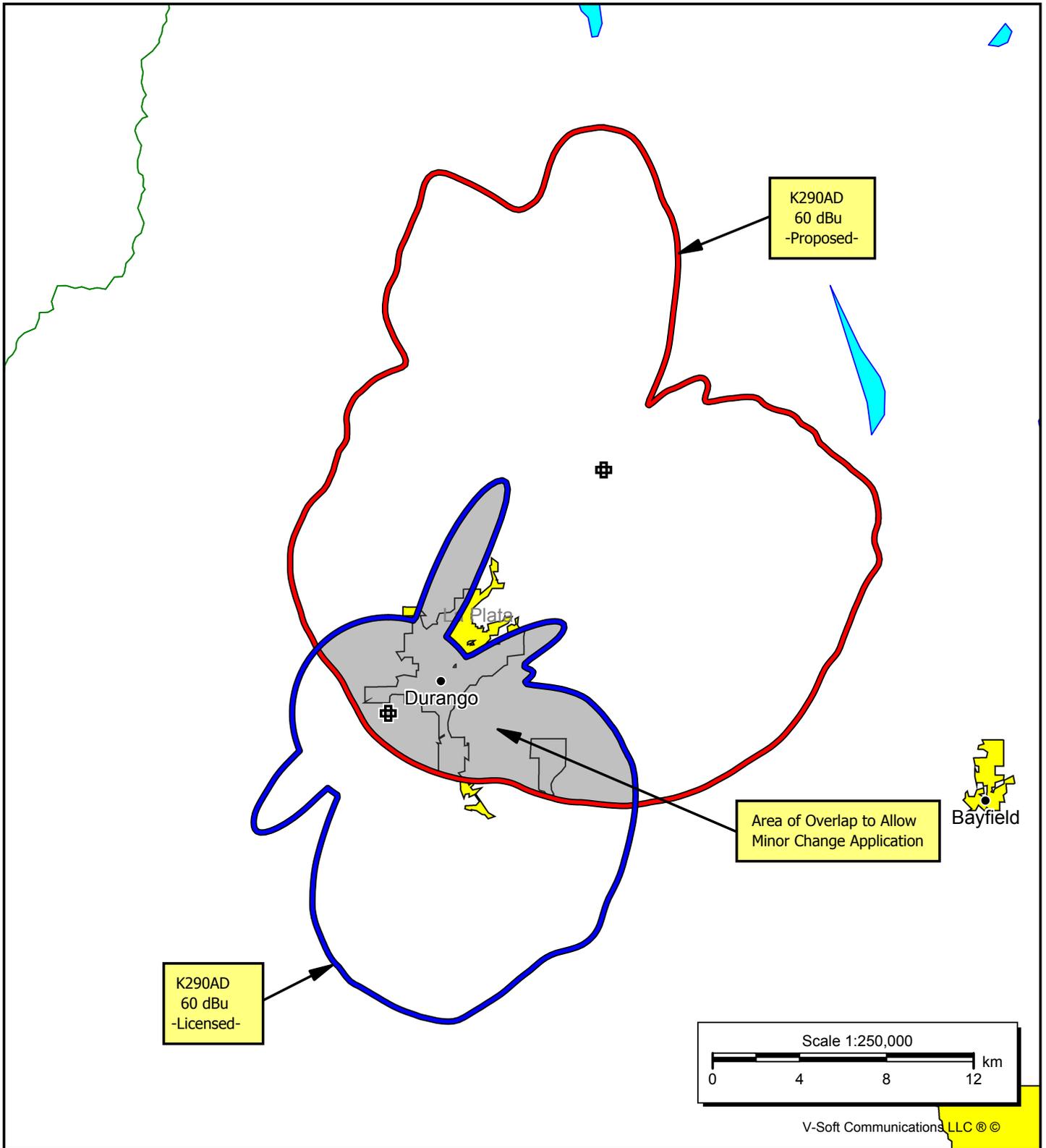
This proposal is for a non-fill-in translator and seeks to have an effective radiated power of 10 Watts under §74.1235. See the Effective Radiated Power Calculation in this exhibit.

§74.1204 Compliance:

§74.1204 clearance to 1st adjacent channel Translator K236CR is demonstrated in this application.

The GLOBE 30 Second Terrain Database is used throughout this application.

Bromo Communications, Inc.



Minor Change Demonstration
Translator K290AD
 Seeks: Channel 236D - 95.1 MHz
 0.010 kW ERP - 2986.2 m COR AMSL
 Durango, Colorado

Bromo Communications, Inc.

August 2023

**Effective Radiated Power Calculation
Translator K290AD**

Seeks Channel 236D – 95.1 MHz
0.010 kW ERP – 2986.2 m COR AMSL
Durango, Colorado
August 2023

Translator K290AD proposes to be a non-fill-in translator for NCE station KTGW (FM) Fruitland, NM. In compliance with §74.1235, K290AD proposes to operate with an ERP of 10 Watts. This ERP was determined using “Contour”, a commercially available software program from V-Soft Communications to calculate the HAAT of the translator along 12 evenly spaced radials. The highest HAAT is 846.7 meters along the 210 degree radial. Because the proposed site is west of the Mississippi River and outside Zone I-A, the guidelines of §74.1235(b)(2) were followed. Since the highest HAAT is greater than or equal to 541 meters, this translator can have 10 Watts ERP. The GLOBE 30 Second Terrain Database was used to make this calculation.

Below is the HAAT Calculation:

N. Lat. = 37° 21' 46.0" W. Lng. = 107° 47' 42.2"
HAAT and Distance to Contour,
FCC, FM 2-10 Mi, 51 pts Method - GLOBE 30 SEC

K290AD, Proclaiming Christ's Love Ministries, Inc.

Azi .	AV EL	HAAT	dBk	60-F5
000	2168.7	817.5	-20.00	15.76
030	2899.2	87.0	-20.00	5.44
060	2859.8	126.4	-20.00	6.54
090	2599.1	387.1	-20.00	11.40
120	2425.3	560.9	-20.00	13.21
150	2276.8	709.4	-20.00	14.88
180	2218.4	767.8	-20.00	15.39
210	2139.5	846.7	-20.00	15.95
240	2207.6	778.6	-20.00	15.47
270	2505.7	480.5	-20.00	12.42
300	2655.8	330.4	-20.00	10.60
330	2173.8	812.4	-20.00	15.72

Ave EI = 2427.47 M HAAT= 558.73 M AMSL= 2986.2 M