

K273CL
Beaver, UT
Proposed Minor Modification
of Permitted Translator Facility

Application Overview:

The Applicant proposes to modify BNPFT-20130805ADO using the following parameters:

Tech Box:

Channel:	273
Antenna Coordinates:	N38-27-23.5, W112-39-28.2 (NAD 27)
ASRN:	N/A
Tower Site Base AMSL:	2395 m
Overall Tower Height AGL:	10 m
COR AGL:	8 m
ERP:	0.25 kW
Directional Antenna:	No

Primary Station and Translator Protected Contour Relationship:

Exhibit 1 demonstrates that the proposed fill-in translator facility's protected contour is completely encompassed by the protected contour of the primary station being rebroadcast.

Interference Study (Fully Spaced):

Exhibit 2 is a contour overlap study demonstrating that the proposed antenna site provides requisite contour protection towards all applications, authorizations, and permits pursuant to Section 74.1204.

Proposed Translator to Combine into a Shared Antenna:

The signal of the proposed Translator is to be combined into an antenna currently authorized for use by the following station(s):

- K224ES Beaver, UT (Contemporaneously Proposed)

Therefore, the applicant agrees to make sufficient measurements to establish that the operation of the Translator is in compliance with the spurious emissions requirements of 47 C.F.R. Sections 73.317(b) through 73.317(d). All measurements will be made with all stations simultaneously into the combined antenna and will be submitted to the Commission along with the FCC Form 350 application for license.

Downward Radiation Study (FM Model):

The proposed FM Facility has been evaluated in terms of potential radiofrequency electromagnetic field exposure at ground level in accordance with OET Bulletin No. 65, Evaluating Compliance with FCC Specified Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields (OET Bulletin 65, Second Edition 97-01, August, 1997). The Commission's FM Model Power Density Prediction program was employed to determine the Field. Using the EPA Type 2: Opposed V Dipole antenna with 2 sections and 0.88 wavelength spacing, and the AGL height and ERP proposed in this application as well as that proposed in the contemporaneously filed K224ES application, the highest predicted power density 2 meters above ground is less than 63.2% of the Uncontrolled Standard with a Power Density of 126.4 microwatts per square centimeter 2.8 meters from the base of the tower.

Even though the site will fully comply with the Uncontrolled Site Standards, access to the transmitting site will be restricted and appropriately marked with warning signs. When it becomes necessary for workers to ascend the tower, appropriate measures, such as reduction or shut down of power if necessary, shall be taken to ensure that the human exposure to radiofrequency radiation will not exceed the FCC guidelines.

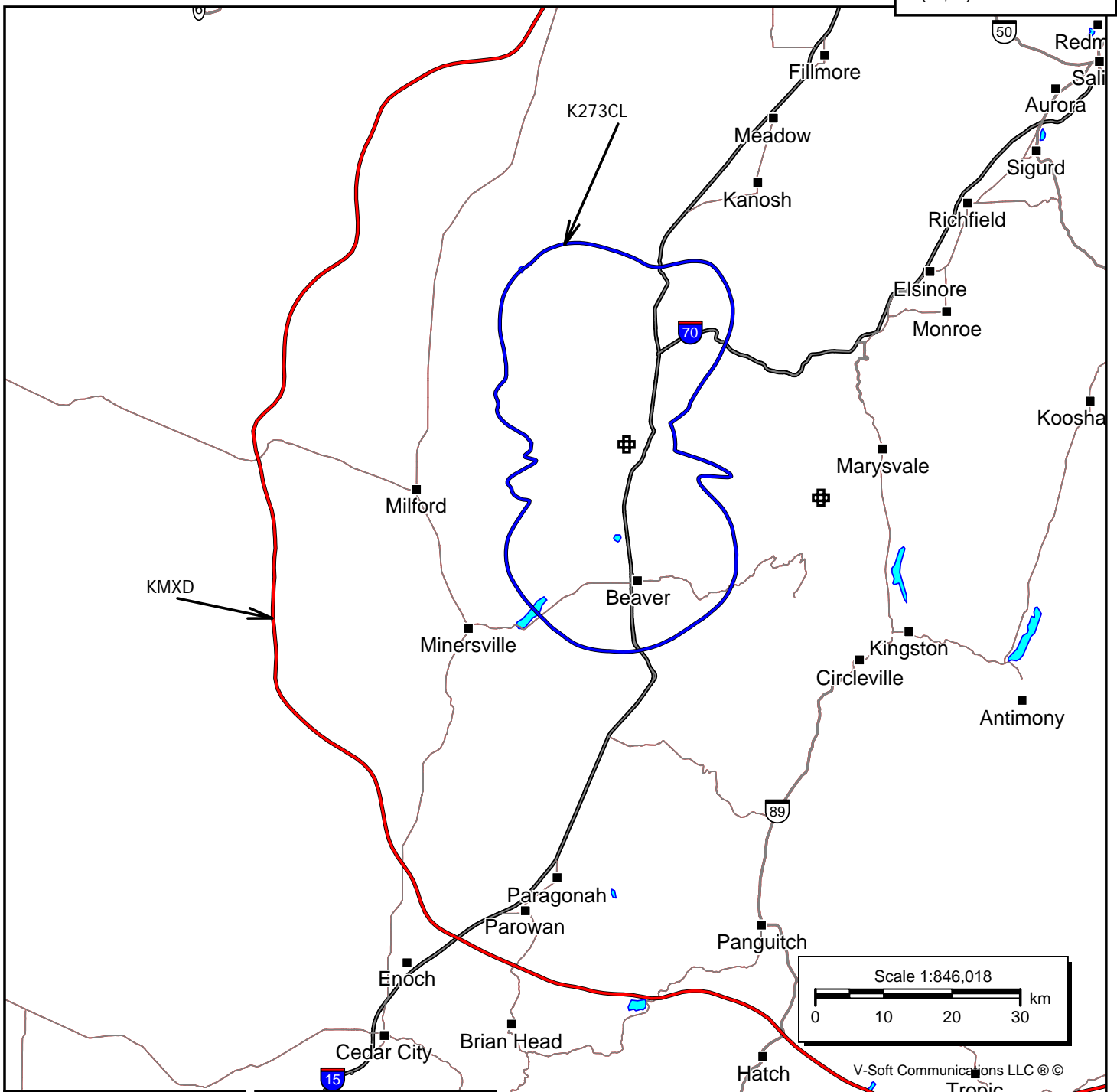
Existing Tower:

The proposed facility is exempt from environmental processing because the facility is not located at a location specified in Section 1.1307(a)(1)-(8) of the Commission's Rules and since the tower in question already exists.

Exhibit 1

**Primary Station Protected Contour
vs.
Proposed Translator Protected Contour**

Primary Station vs
Proposed Translator
F(50,50) 60 dBu Contours



K273CL

Channel: 273D
Frequency: 102.5 MHz
Latitude: 38-27-23.50 N
Longitude: 112-39-28.20 W
COR AGL Height: 8.0 m
COR AMSL Height: 2403.0 m
Base Elevation: 2395.0 m
COR HAAT: 302.11 m
ERP: 0.25 kW
Horiz. Pattern: Omni
Vert. Pattern: No
Prop Model: None

KMXD

BLH20080122ADT
Channel: 263C
Frequency: 100.5 MHz
Latitude: 38-23-08 N
Longitude: 112-19-57 W
COR AGL Height: 49.0 m
COR AMSL Height: 3600.0 m
Base Elevation: 3551.0 m
COR HAAT: 993.0 m
ERP: 33.00 kW
Horiz. Pattern: Omni
Vert. Pattern: No
Prop Model: None

Exhibit 2

Section 74.1204 Interference Tabulations

K273CL Beaver, UT Section 74.1204 Contour Overlap Tabulations CH# 273D - 102.5 MHz, Pwr= 0.25 kW, HAAT= 302.1 M, COR= 2403 M Average Protected F(50-50)= 22.63 km Omni-directional											
REFERENCE										DISPLAY DATES	
38 27 23.5 N.										DATA 09-05-16	
112 39 28.2 W.										SEARCH 10-08-16	
CH CITY	CALL	TYPE STATE	ANT	AZI <--	DIST FILE #	LAT LNG	PWR(kW) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*
273D Beaver	K273CL	CP UT	C_	334.3 154.3	0.15 BNPFT20130805ADO	38 27 28.0 112 39 31.0	0.180 310	79.2 2415	25.8 Air-free Wireless, Inc.	-109.2*	-113.8*
219C1 Richfield	KEYR	LIC UT	C_	105.4 285.6	29.50 BLED20110103AAC	38 23 08.0 112 19 56.0	0.850 956	18.4 3564	3.4 Biblical Ministries Worldw	21.5R	8.0M
274D Junction	K274AH	LIC UT	DVN	126.4 306.7	45.42 BLFT19960805TD	38 12 49.0 112 14 23.0	0.010 -240	3.3 1986	2.4 Piute County	23.3	15.1
272D Panguitch	K272BA	LIC UT	CN	166.0 346.1	72.58 BLFT19821116IA	37 49 19.0 112 27 28.0	0.057 -176	6.9 2077	4.9 Garfield County	36.7	22.5
276D Richfield & Monroe	K276AT	LIC UT	?CN	69.0 249.4	55.80 BLFT19800317IB	38 38 04.0 112 03 33.0	0.054 449	0.5 2679	27.9 Sevier County	48.2	26.8
275D Milford	K275BZ	LIC UT	C_	277.3 97.0	55.07 BLFT20150310AIO	38 31 05.0 113 17 03.0	0.010 1195	0.2 2956	17.1 Iron County	38.8	33.0
270D Milford	K270BX	LIC UT	C_	277.3 97.0	55.07 BLFT20150310AGH	38 31 05.0 113 17 03.0	0.010 1195	0.2 2956	17.1 Iron County	38.8	36.8
271D Fillmore	635427	APP UT	C_	24.0 204.2	70.53 BNPFT20030313BFL	39 02 10.0 112 19 31.0	0.050 60	0.5 1709	12.5 Micro Communications, Inc.	41.1	49.9
276D Panguitch	K276CU	LIC UT	DCN	166.0 346.1	72.58 BLFT19860422TB	37 49 19.0 112 27 28.0	0.071 -157	0.0 2096	1.6 Garfield County	43.6	69.9
274D Rural Juab County	K274AV	LIC UT	DV_	38.3 218.9	123.13 BLFT20040301AOF	39 19 18.0 111 46 11.0	0.200 701	41.0 2608	26.3 Slc Divestiture Trust li (57.0	58.6

Terrain database is NGDC 30 SEC , R= 73.215 qualifying spacings or FCC minimum Spacings in KM, M= Margin in KM
 Contour distances are on direct line to and from reference station. Reference zone= , Co to 3rd adjacent.
 All separation margins (if shown) include rounding.
 Ant Column: (D= DA Standard, Z= DA 73.215, N= Not DA 73.215, _= Omni), Polarization (C,H,V,E), Beamtilt(Y,N,X)
 "*"affixed to 'IN' or 'OUT' values = site inside restricted contour.