

New Translator
Beaver, UT
Proposed New Translator Facility

Application Overview:

The Applicant proposes a Long Form 349 Application for BNPFT-20030314ARM using the following parameters:

Tech Box:

Channel:	224
Antenna Coordinates:	N38-27-28, W112-39-31 (NAD 27)
ASRN:	N/A
Tower Site Base AMSL:	2404 m
Overall Tower Height AGL:	18.3 m
COR AGL:	11 m
ERP:	0.18 kW
Directional Antenna:	No

LPFM NOTE: This transmitter site is NOT located within 39 kilometers of any Appendix A Market grid and/or within any Top-50 Spectrum Limited Market. Therefore, an LPFM Preclusion Study is not required.

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):

- K298AW Beaver, UT (see #145327)
- K279AO Beaver, UT (see #145246)
- #140509 Beaver, UT (see 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 Jampro "Double V" antenna with 2 sections and 0.88 wavelength spacing, and the AGL height and ERP proposed in this application as well as the other shared stations noted on the previous page on this antenna, the highest predicted power density 2 meters above ground is less than 43.7% of the Uncontrolled Standard with a Power Density of 87.36 microwatts per square centimeter 4 meters from the base of the tower.

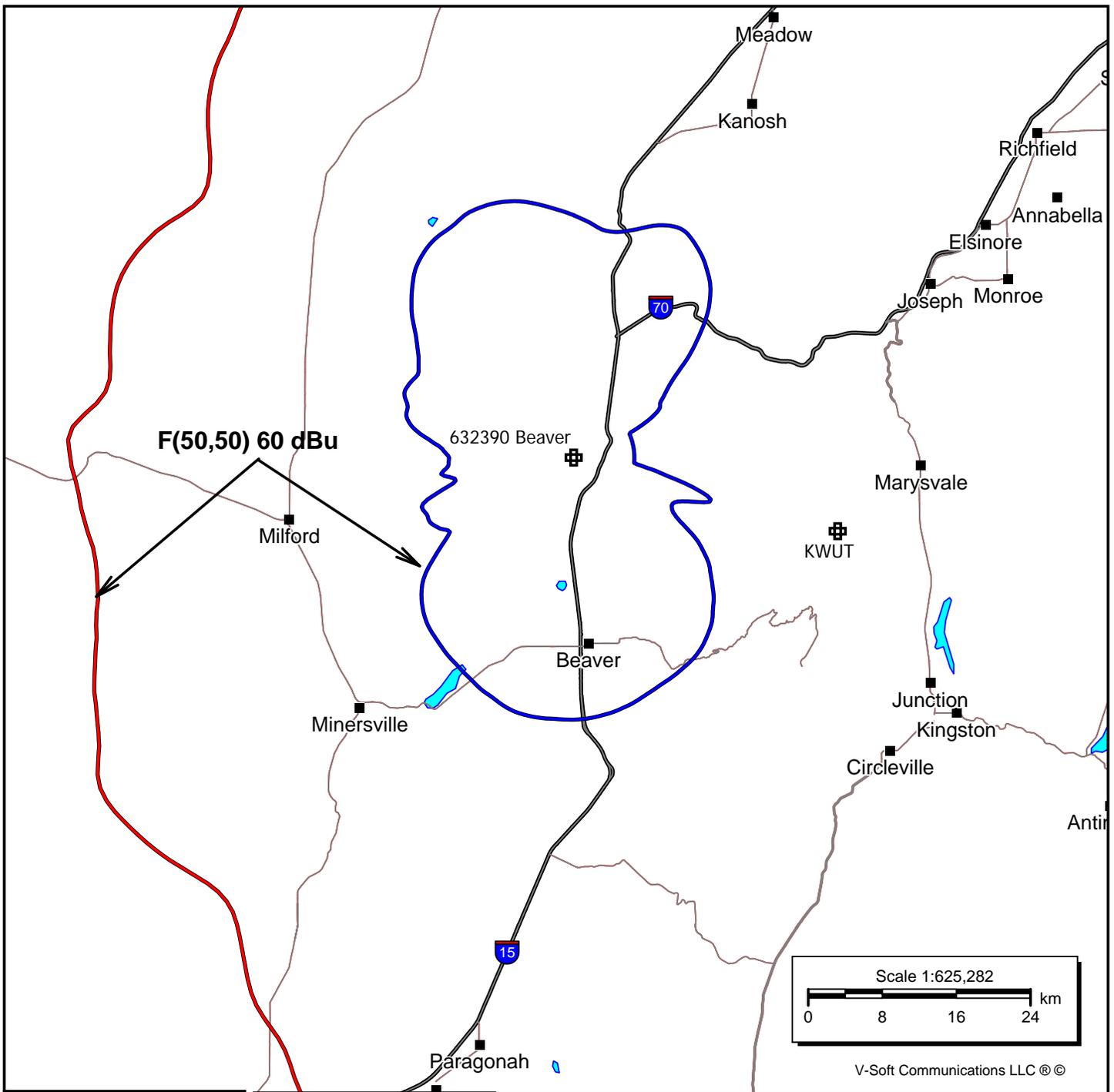
Even though the site will fully comply with the Uncontrolled Site Standards, access to the transmitting site will be restricted and appropriately marked with warning signs. When it becomes necessary for workers to ascend the tower, appropriate measures, such as reduction or shut down of power if necessary, 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**



632390 Beaver
 BMLFT20101117AJM
 Channel: 224D
 Frequency: 92.7 MHz
 Latitude: 38-27-28 N
 Longitude: 112-39-31 W
 COR AGL Height: 11.0 m
 COR AMSL Height: 2415.0 m
 Base Elevation: 2404.0 m
 COR HAAT: 309.7 m
 ERP: 0.18 kW
 Horiz. Pattern: Omni
 Vert. Pattern: No
 Prop Model: None

KWUT
 BLH20100520AAP
 Channel: 249C
 Frequency: 97.7 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

632390 Beaver, UT

Section 74.1204 Contour Overlap Study

REFERENCE
38 27 28.0 N.
112 39 31.0 W.

CH# 224D - 92.7 MHz, Pwr= 0.18 kW, HAAT= 309.7 M, COR= 2415 M
Average Protected F(50-50)= 21.18 km
Omni-directional

DISPLAY DATES
DATA 07-09-13
SEARCH 07-13-13

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*
225D Rural	632390 Beaver County	APP_DC_ UT		0.0 0.0	0.00 BNPFT20030314ARM	38 27 28.0 112 39 31.0	0.010 310	6.3 2415	3.6 Air-free	-32.3*<	-44.1*<
224D Scipio	635809	APP_C_ UT		28.3 208.6	93.59 BNPFT20030313BGG	39 11 54.0 112 08 36.0	0.010	32.8 2112	9.9 Micro	34.1	2.4 Communications, Inc.
221C Cedar	KXBN City	LIC_C_ UT		214.9 34.5	109.82 BLH20071113ADC	37 38 43.0 113 22 22.0	100.000 532	15.4 2432	96.4 Ccr-st.	69.5	12.5 George Iv, Lic
223D Orangeville	637333	APP_C_ UT		28.0 208.3	94.80 BNPFT20030313BDL	39 12 36.0 112 08 30.0	0.100 744	47.7 2671	30.7 Micro	20.3	22.4 Communications, Inc.
221D Marysval e	K221AF	LIC_DHN UT		82.4 262.7	39.35 BLFT36	38 30 13.0 112 12 41.0	0.010 64	0.0 2246	0.3 Plute	32.8	38.1 County
224D Salina	652268	APP_C_ UT		51.1 231.6	88.91 BNPFT20030314AKA	38 57 26.0 111 51 34.0	0.250 -157	23.8 1619	7.1 Micro	50.6	33.7 Communications, Inc.
222D Fillmore/del ta	630675	APP_DC_ UT		38.1 218.3	57.70 BNPFT20030314AQO	38 51 56.0 112 14 51.0	0.010 904	0.0 3127	3.8 Mid-utah	33.8	47.2 Radio, Inc.
224C1 El y	KDSS	LIC_CX NV		294.8 113.3	215.52 BLH20060607ACU	39 14 46.0 114 55 39.0	32.000 293	159.8 2445	69.1 Coates	36.4	86.3 Broadcasting, Inc.
223D Gunnison	635653	APP_C_ UT		38.3 218.8	123.00 BNPFT20030314ALI	39 19 23.0 111 46 23.0	0.250 691	58.3 2597	38.7 Micro	40.9	47.8 Communications, Inc.
224C Moapa Valley	KRRN	LIC_HX NV		220.0 38.9	267.31 BLH20080327ADP	36 36 04.0 114 35 06.0	100.000 587	198.2 1173	92.0 Entravi	45.0	101.2 sion Hol di ngs, LI c
225C2 Mona	KPUT	CP_ZCX UT		23.3 203.8	154.48 BNPH20120509AEY	39 43 58.0 111 56 35.0	16.000 266	75.8 2009	51.5 Alex	51.6	61.0 Media, Inc.

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 protected contour.
< = Contour Overlap