

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.

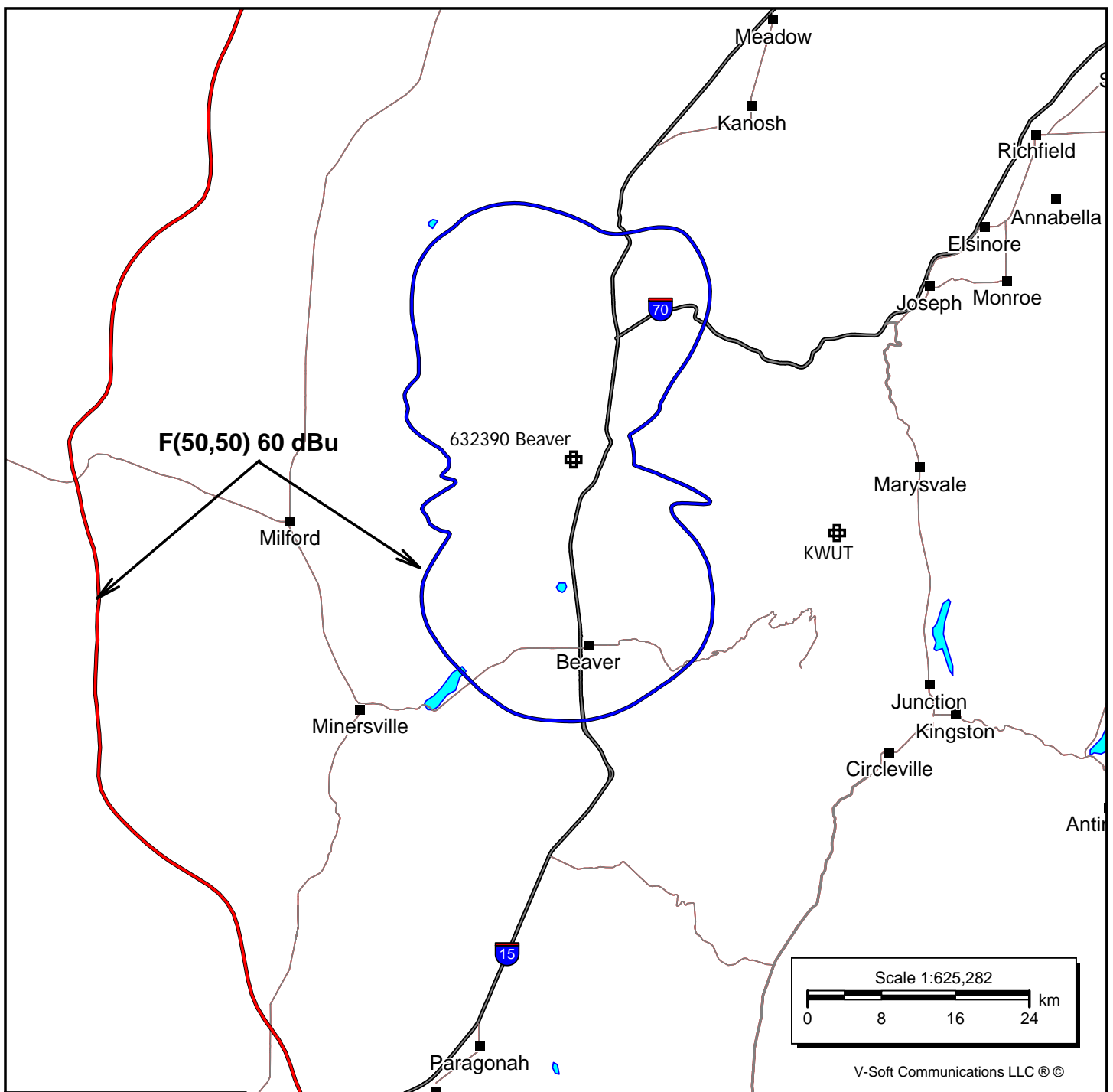
Even though the site will fully comply with the Uncontrolled Site Standards, access to the transmitting site will be restricted and appropriately marked with warning signs. When it becomes necessary for workers to ascend the tower, appropriate measures, such as reduction or shut down of power if necessary,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

V-Soft Communications LLC ©

Exhibit 2

Section 74.1204 Interference Tabulations

| 632390 Beaver, UT Section 74.1204 Contour Overlap Study 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 | | | | | | | | | | | |
|---|-------------------------|---------------|-----|----------------|----------------------------|---------------------------|--------------------|-------------------|--|-------------------------|---------|
| REFERENCE | | | | | | | | | | DISPLAY DATES | |
| 38 27 28.0 N. | | | | | | | | | | DATA 07-09-13 | |
| 112 39 31.0 W. | | | | | | | | | | 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 Wi rel ess, Inc. | -32.3*< | -44.1*< |
| 224D Sci pio | 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 Communi cati ons, Inc. | 34.1 | 2.4 |
| 221C Cedar Ci ty | KXBN | 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. George Iv, Lic | 69.5 | 12.5 |
| 223D Orangevi lle | 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 Communi cati ons, Inc. | 20.3 | 22.4 |
| 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 Pi ute County | 32.8 | 38.1 |
| 224D Sal ina | 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 Communi cati ons, Inc. | 50.6 | 33.7 |
| 222D Fi ll more/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 Mi d-utah Radio, Inc. | 33.8 | 47.2 |
| 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 Broadcasti ng, Inc. | 36.4 | 86.3 |
| 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 Communi cati ons, Inc. | 40.9 | 47.8 |
| 224C Moapa Val ley | 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 si on Hol di ngs, LI c | 45.0 | 101.2 |
| 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 Al ex Medi a, Inc. | 51.6 | 61.0 |

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