

New Translator
Whitefish, MT
Proposed New Translator Facility

Application Overview:

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

Tech Box:

Channel:	226
Antenna Coordinates:	N48-30-22, W114-20-49 (NAD 27)
ASRN:	N/A
Tower Site Base AMSL:	2078 m
Overall Tower Height AGL:	36 m
COR AGL:	17 m
ERP:	0.25 kW
Directional Antenna:	Yes - see Exhibit 4

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.

Antenna Located BELOW directional antenna:

The applicant notes that this facility shall be mounted on the same tower as non-directional stations KSPL(FM) and K258AP Kalispell. It will also be located beneath the directional facilities of KUKL(FM) Kalispell, MT. As such, it will have no impact on the azimuth pattern of KUKL(FM).

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 Phelps-Dodge "Worst Case" Ring Stub antenna with 1 sections and 1 wavelength spacing, and the AGL height and ERP proposed in this, the highest predicted power

density 2 meters above ground is less than 22.3% of the Uncontrolled Standard with a Power Density of 44.6 microwatts per square centimeter 4 meters from the base of the tower.

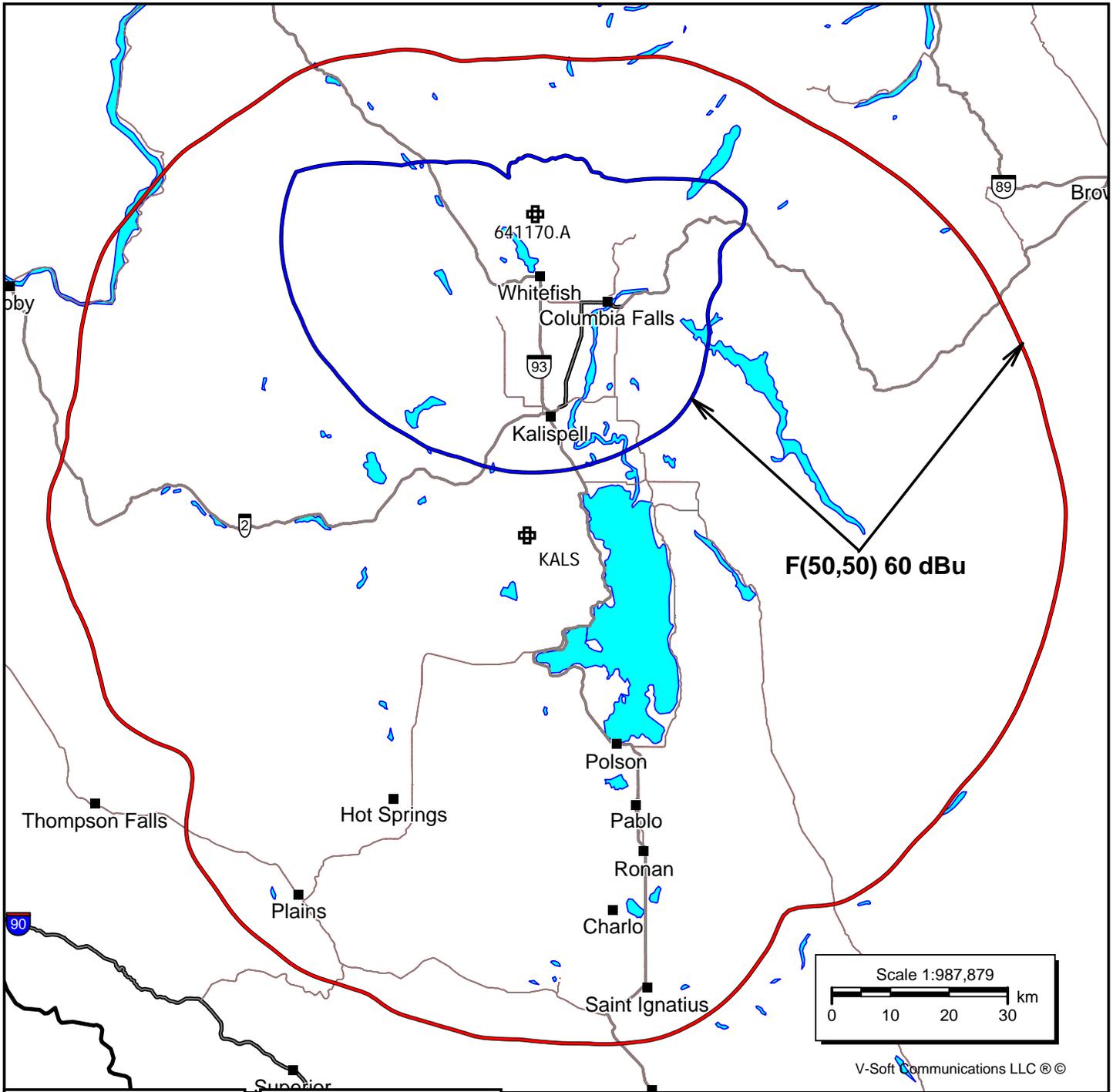
Even though the site will fully comply with the Uncontrolled Site Standards, access to the transmitting site will be restricted and appropriately marked with warning signs. When it becomes necessary for workers to ascend the tower, appropriate measures, such as reduction or shut down of power if necessary,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

Existing Tower:

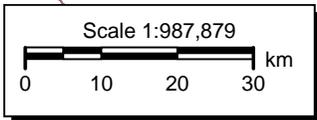
The proposed facility is exempt from environmental processing because the facility is not located at a location specified in Section 1.1307(a)(1)-(8) of the Commission's Rules and since the tower in question already exists.

Exhibit 1

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



F(50,50) 60 dBu



V-Soft Communications LLC ©

641170.A
 BNPFT20030314BUL
 Channel: 226D
 Frequency: 93.1 MHz
 Latitude: 48-30-22 N
 Longitude: 114-20-49 W
 COR AGL Height: 17.0 m
 COR AMSL Height: 2095.0 m
 Base Elevation: 2078.0 m
 COR HAAT: 782.87 m
 ERP: 0.25 kW
 Horiz. Pattern: Directional
 Vert. Pattern: No
 Prop Model: None

KALS
 BMLH20040607AAC
 Channel: 246C
 Frequency: 97.1 MHz
 Latitude: 48-00-48 N
 Longitude: 114-21-55 W
 COR AGL Height: 27.0 m
 COR AMSL Height: 2065.0 m
 Base Elevation: 2038.0 m
 COR HAAT: 758.0 m
 ERP: 26.50 kW
 Horiz. Pattern: Omni
 Vert. Pattern: No
 Prop Model: None

Exhibit 2

Section 74.1204 Interference Tabulations

641170 on Channel 226 Whi tefi sh, MT
 Section 74.1204 Contour Overlap Tabulations
 CH# 226D - 93.1 MHz, Pwr= 0.25 kW DA, HAAT= 782.9 M, COR= 2095 M
 Average Protected F(50-50)= 37.56 km
 Standard Directional

REFERENCE
 48 30 22.0 N.
 114 20 49.0 W.

DISPLAY DATES
 DATA 07-09-13
 SEARCH 07-21-13

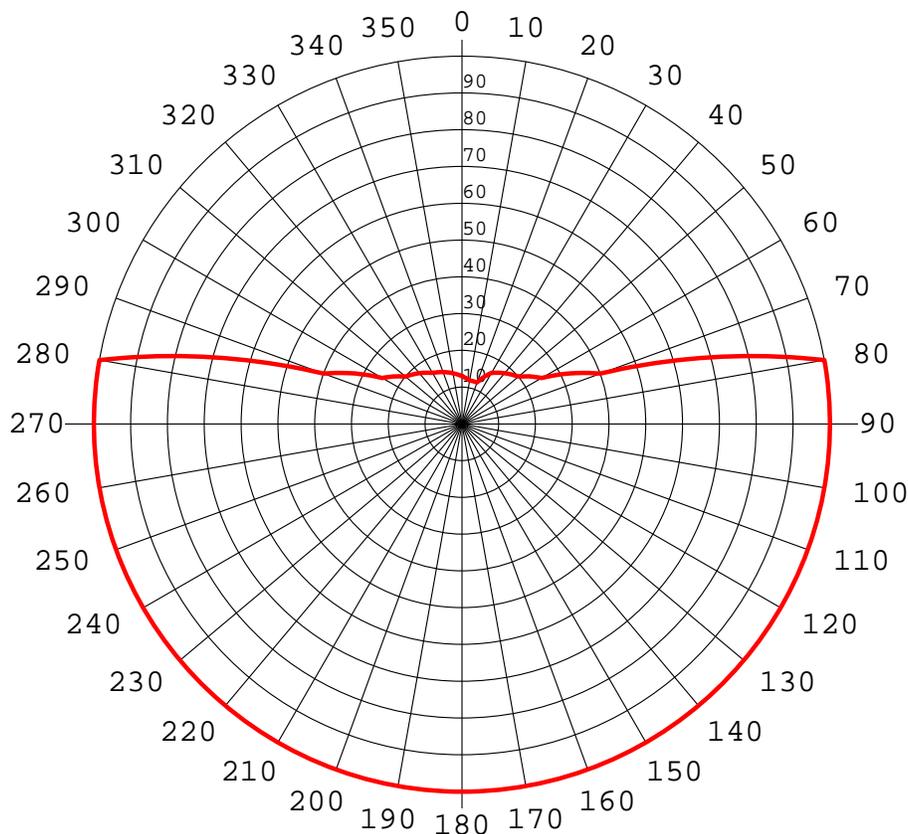
CH CITY	CALL	TYPE STATE	ANT STATE	AZI <--	DIST FILE #	LAT LNG	PWR(kW) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*
226D Whi tefi sh	641170	APP_V_	MT	158.7 338.8	8.42 BNPFT20030314BUL	48 26 08.0 114 18 20.0	0.020 -116	12.0 1060	3.7 Kal i spell	-46.7*	-105.6 Christ ian Radio
227C Mi ssoula	KGGL	LIC_CN	MT	170.7 350.9	165.99 BLH19950426KA	47 01 57.0 113 59 31.0	43.000 777	139.4 2338	95.9 Ccr-mi ssoula Iv, LIc	-17.2	4.9
224D Kal i spell	K224DV	LIC_C_	MT	154.8 335.0	53.75 BLFT20111213ACB	48 04 07.0 114 02 20.0	0.250	1.1 1162	20.7 Educati onal Medi a Foundati n	9.8	23.4
280C1 Kal i spell	KZMN«	LIC_EN	MT	172.9 352.9	46.16 BLH19910830KC	48 05 39.0 114 16 11.0	100.000 174	22.1 1257	14.7 Kofi , Inc.	21.5R	24.7M
227C1 Taber	R29294«	ADD_	AB	47.2 228.7	196.31	49 41 09.0 112 20 48.0	100.000 299	101.0 1176	86.0	167.5R	28.8M
228A Eureka	KZXT	LIC_C_	MT	311.7 131.2	66.27 BLH20091204AAI	48 54 00.7 115 01 20.7	2.000 -210	1.6 943	12.0 Anderson Radi o Broadcasti n	51.5	52.2
226A1 Col eman	R12873	VAC_	AB	355.2 175.1	127.05	49 38 41.0 114 29 40.0	0.250 100	53.8 1824	18.0	63.3	57.4

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.
 « = Station meets FCC minimum distance spacing for its class.

Exhibit 4

Proposed Azimuth Pattern

New Translator Channel 226 Whitefish, MT



Azi	Rel	dBk	kW	dB	Azi	Rel	dBk	kW	dB
0	0.130	-23.74	0.004	-17.72	180	1.000	-6.02	0.250	0.00
10	0.120	-24.44	0.004	-18.42	190	1.000	-6.02	0.250	0.00
20	0.120	-24.44	0.004	-18.42	200	1.000	-6.02	0.250	0.00
30	0.160	-21.94	0.006	-15.92	210	1.000	-6.02	0.250	0.00
40	0.180	-20.92	0.008	-14.89	220	1.000	-6.02	0.250	0.00
50	0.200	-20.00	0.010	-13.98	230	1.000	-6.02	0.250	0.00
60	0.250	-18.06	0.016	-12.04	240	1.000	-6.02	0.250	0.00
70	0.400	-13.98	0.040	-7.96	250	1.000	-6.02	0.250	0.00
80	1.000	-6.02	0.250	0.00	260	1.000	-6.02	0.250	0.00
90	1.000	-6.02	0.250	0.00	270	1.000	-6.02	0.250	0.00
100	1.000	-6.02	0.250	0.00	280	1.000	-6.02	0.250	0.00
110	1.000	-6.02	0.250	0.00	290	0.400	-13.98	0.040	-7.96
120	1.000	-6.02	0.250	0.00	300	0.250	-18.06	0.016	-12.04
130	1.000	-6.02	0.250	0.00	310	0.200	-20.00	0.010	-13.98
140	1.000	-6.02	0.250	0.00	320	0.180	-20.92	0.008	-14.89
150	1.000	-6.02	0.250	0.00	330	0.160	-21.94	0.006	-15.92
160	1.000	-6.02	0.250	0.00	340	0.150	-22.50	0.006	-16.48
170	1.000	-6.02	0.250	0.00	350	0.140	-23.10	0.005	-17.08

Rotation Angle = 0