

New FM Translator
Montpelier, ID
Proposed 349 Long Form Application
New Translator Facility

Application Overview:

The Applicant proposes to modify short form 349 Application BNPFT-20030317EBR using the following parameters in its instantly proposed Long Form Application:

Tech Box:

Channel:	269
Antenna Coordinates:	N42-19-13, W111-17-14 (NAD 27)
ASRN:	1226376
Tower Site Base AMSL:	1925 m
Overall Tower Height AGL:	45.7 m
COR AGL:	31 m
ERP:	0.115 kW
Directional Antenna:	No

Third Party Translator:

The Applicant intends to translate KBLQ-FM 225C1 Logan, UT. The Applicant is not the licensee of the primary station being rebroadcast. Therefore, the facility is not defined as a “fill-in” translator and is subject to the Maximum Effective Radiated Power (“MERP”) limitations of Section 74.1235(b)(2). As such, Exhibit 1 examines the Height Above Average Terrain (“HAAT”) on each of 12 evenly spaced radials, starting at 0 degrees true, from the antenna site. As can be seen, the radial with the highest HAAT is the 210 degree radial with an

HAAT of 151.5 meters. In accordance with Section 74.1235(b)(2), the power emitted along that radial is limited to a maximum of 115 watts. Since the Applicant proposes non-directional facilities, the translator will be limited to a non-directional ERP of 115 watts on all azimuths.

Interference Study:

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.

No Other Co-Located Emitters:

No other emitters are authorized to use the proposed tower.

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 "Ring Stub" Worst Case antenna with 1 sections and 1 wavelength spacing, and the AGL height and ERP proposed in this application, the highest predicted power density 2 meters above ground is less than 2.7% of the Uncontrolled Standard with a Power Density of 5.49 microwatts per square centimeter 7.8 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

MERP and HAAT Determination and Proposed Contour Map

Call Letters: New TX 269D
 File Number: BNPFT20030317EBR
 Latitude: 42-19-13 N
 Longitude: 111-17-14 W
 ERP: 0.25 kW
 Channel: 269
 Frequency: 101.7 MHz
 AMSL Height: 1955.5 m
 Elevation: 1924.5 m
 HAAT: -14.18 m
 Horiz. Antenna Pattern: Omni
 Vert. Elevation Pattern: No

Type of contour: FCC
 Location Variability: 50.0 %
 Time Variability: 50.0 %
 # of Radials Calculated: 360
 Field Strength: 60.00 dBuV/m

Primary Terrain: V-Soft 30 Second US Database
 Secondary Terrain: V-Soft 3 Second US Terrain

Bearing (deg)	Distance (km)	HAAT (m)
-----	-----	-----
0.0	7.1	-125.2
30.0	7.1	-410.4
60.0	7.1	-193.4
90.0	7.1	-179.1
120.0	7.1	-41.6
150.0	11.7	82.0
180.0	15.7	147.3
210.0 **	16.0	151.5 **
240.0	14.0	119.2
270.0	13.5	110.3
300.0	7.1	28.0
330.0	15.3	141.2

Average HAAT for radials shown: -14.2 m

** (210 degree radial has Highest HAAT & Limits MERP to 0.115 kW)

New TX 269D
Proposed Contour Map

F(50,50) 60 dBu

Montpelier New-TX 269D

Scale 1:246,794

0 3 6 9 km

V-Soft Communications LLC ® ©

New TX 269D

BNPFT20030317EBR

Latitude: 42-19-13 N

Longitude: 111-17-14 W

ERP: 0.115 kW

HAAT: -14.18 m

Channel: 269 D

Frequency: 101.7 MHz

AMSL Height: 1955.5 m

Elevation: 1924.5 m

Horiz. Pattern: Omni

Vert. Pattern: No

Prop Model: None

Exhibit 2

Section 74.1204 Interference Tabulations

New TX 269D Montpelier, ID Section 74.1204 Overlap Study														
REFERENCE		CH#	269D	-	101.7	MHz	Pwr= 0.115	kW,	HAAT= 0.0	M,	COR= 1955.5	M	DISPLAY DATES	
42 19 13.0 N.												DATA	06-04-08	
111 17 14.0 W.												SEARCH	06-18-08	
CH	CALL	TYPE	ANT	AZI	DI ST	LAT	PWR(kW)	INT(km)	PRO(km)	*IN*	*OUT*			
CITY		STATE		<--	FILE #	LNG	HAAT(M)	COR(M)	LICENSEE	(Overlap	in km)			
269D	639153	APP _C_		253.0	2.01	42 18 54.0	0.250	23.8	7.1	-33.09*	-43.80*			
Montpelier		ID		73.0	BNPFT20030317EBR	111 18 38.0		1702	Max T.	Ni chols				
268C	KEGA	LIC _HX		171.3	162.78	40 52 16.0	89.000	147.3	101.3	4.13	44.98			
Oakley		UT		351.5	BLH20030604ABC	110 59 43.0	647	3330	Simmons-sl c,	Ls, Lic				
270C	KCHQ	CP _CX		358.3	154.18	43 42 27.0	100.000	120.5	81.2	27.83	64.70			
Driggs		ID		178.3	BPH20060119ABS	111 20 40.0	596	2705	Ted W. Austin, Jr.					
272D	K272AB	LIC _CN		241.8	45.74	42 07 30.0	0.008	0.2	3.0	33.90	42.01			
Preston, Etc.		ID		61.4	BLFT16	111 46 30.0	205	1878	Franklin County Tv	Distric				
268C	KCVI	LIC _C_		320.0	172.63	43 30 03.0	100.000	129.0	86.4	34.33	73.18			
Blackfoot		ID		139.1	BMLH20030825ANH	112 39 43.0	461	2030	Ri verbend Communi cations,					
272D	K272AX	LIC DHN		178.2	48.65	41 52 57.0	0.030	0.2	12.4	35.57	35.52			
Laketown-garden Ci t		UT		358.3	BLFT19870601TC	111 16 09.0	333	2314	Rich County					
272D	K272AG	LIC _CN		316.8	47.38	42 37 48.0	0.055	0.5	7.1	38.50	39.56			
Soda Springs, Etc.		ID		136.5	BLFT143	111 41 00.0	328	2148	Caribou County Tv Associat					
270C	KENZ	LIC _CX		202.7	199.63	40 39 34.0	25.000	140.0	95.8	46.58	84.22			
Ogden		UT		22.1	BLH20030508AAI	112 12 05.0	1140	2803	Citadel Broadcasting Compa					
Terrain database is NGDC 30 SEC Distance + R = FCC Required Spacings in KM, Distance + M = Margin in KM														
ERP and HAAT are on direct line to and from reference station.														
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.														