

**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

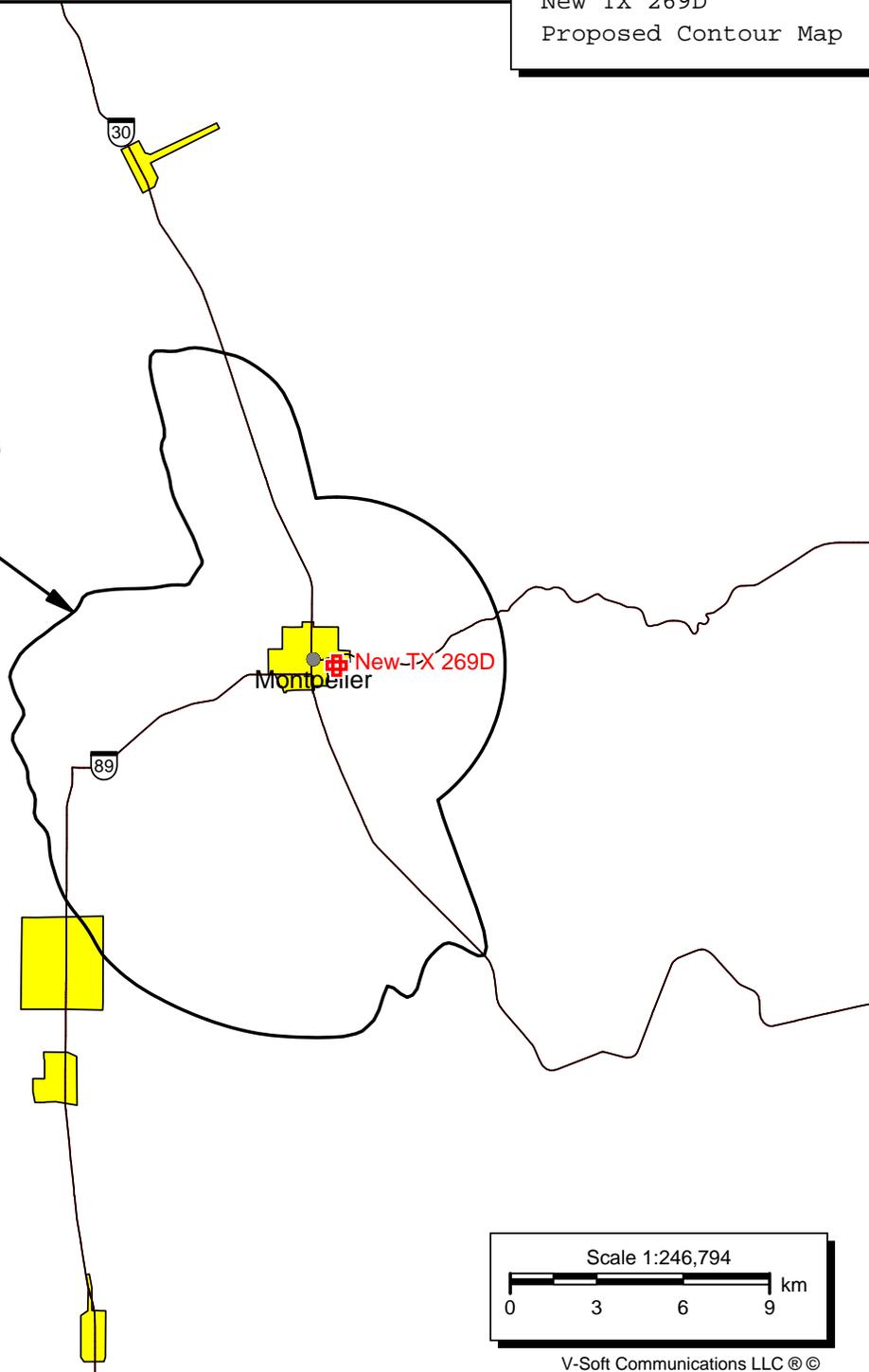
Bearing (deg)	Distance (km)	HAAT (m)
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0.0	7.1	-125.2
30.0	7.1	-410.4
60.0	7.1	-193.4
90.0	7.1	-179.1
120.0	7.1	-41.6
150.0	11.7	82.0
180.0	15.7	147.3
210.0 **	16.0	151.5 **
240.0	14.0	119.2
270.0	13.5	110.3
300.0	7.1	28.0
330.0	15.3	141.2

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



**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



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# **Exhibit 2**

## **Section 74.1204 Interference Tabulations**

New TX 269D Montpelier, ID  
Section 74.1204 Overlap Study

REFERENCE  
42 19 13.0 N.  
111 17 14.0 W.

CH# 269D - 101.7 MHz, Pwr= 0.115 kW, HAAT= 0.0 M, COR= 1955.5 M  
Average Protected F(50-50)= 5.84 km

DISPLAY DATES  
DATA 06-04-08  
SEARCH 06-18-08

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*
269D Montpelier	639153	APP ID	_C_	253.0 73.0	2.01 BNPFT20030317EBR	42 18 54.0 111 18 38.0	0.250 1702	23.8	7.1 Max T. Nichols	-33.09*	-43.80*
268C Oakley	KEGA	LIC UT	_HX	171.3 351.5	162.78 BLH20030604ABC	40 52 16.0 110 59 43.0	89.000 647	147.3 3330	101.3 Simmons-slc, Ls, Lic	4.13	44.98
270C Driggs	KCHQ	CP ID	_CX	358.3 178.3	154.18 BPH20060119ABS	43 42 27.0 111 20 40.0	100.000 596	120.5 2705	81.2 Ted W. Austin, Jr.	27.83	64.70
272D Preston, Etc.	K272AB	LIC ID	_CN	241.8 61.4	45.74 BLFT16	42 07 30.0 111 46 30.0	0.008 205	0.2 1878	3.0 Franklin County Tv Distric	33.90	42.01
268C Blackfoot	KCVI	LIC ID	_C_	320.0 139.1	172.63 BMLH20030825ANH	43 30 03.0 112 39 43.0	100.000 461	129.0 2030	86.4 Ri verbend Communi cations,	34.33	73.18
272D Laketown-garden Cit	K272AX	LIC UT	DHN	178.2 358.3	48.65 BLFT19870601TC	41 52 57.0 111 16 09.0	0.030 333	0.2 2314	12.4 Rich County	35.57	35.52
272D Soda Springs, Etc.	K272AG	LIC ID	_CN	316.8 136.5	47.38 BLFT143	42 37 48.0 111 41 00.0	0.055 328	0.5 2148	7.1 Cari bou County Tv Associ at	38.50	39.56
270C Ogden	KENZ	LIC UT	_CX	202.7 22.1	199.63 BLH20030508AAI	40 39 34.0 112 12 05.0	25.000 1140	140.0 2803	95.8 Citadel Broadcasting Compa	46.58	84.22

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), Beam tilt(Y,N,X)  
\*\*\*affixed to 'IN' or 'OUT' values = site inside protected contour.