

K265EP
Butte, MT

Proposed Minor Modification
of Licensed Translator Facility

Application Overview:

The Applicant proposes to modify BLFT-20121116AAA using the following parameters:

Tech Box:

Channel:	268
Antenna Coordinates:	N46-00-23, W112-26-28 (NAD 27)
ASRN:	1031582
Tower Site Base AMSL:	2496 m
Overall Tower Height AGL:	61.9 m
COR AGL:	57 m
ERP:	Vertically Polarized 0.25 kW
Directional Antenna:	Yes - SCA CA2-CP (265 deg)

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 2 mV/m contour of the primary AM station being rebroadcast – KBOW(AM) Butte, MT. The map also demonstrates that the proposed facility's F(50,50) 60 dBu contour does not extend more than 25 miles beyond the antenna site for the AM station being translated. It does, however, completely overlap the presently licensed contour of the translator's current authorization.

Interference Study (Adjacent Stations):

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 Directional Emitters:

No directional 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 1.7% of the Uncontrolled Standard with a Power Density of 3.3 microwatts per square centimeter 14.8 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:

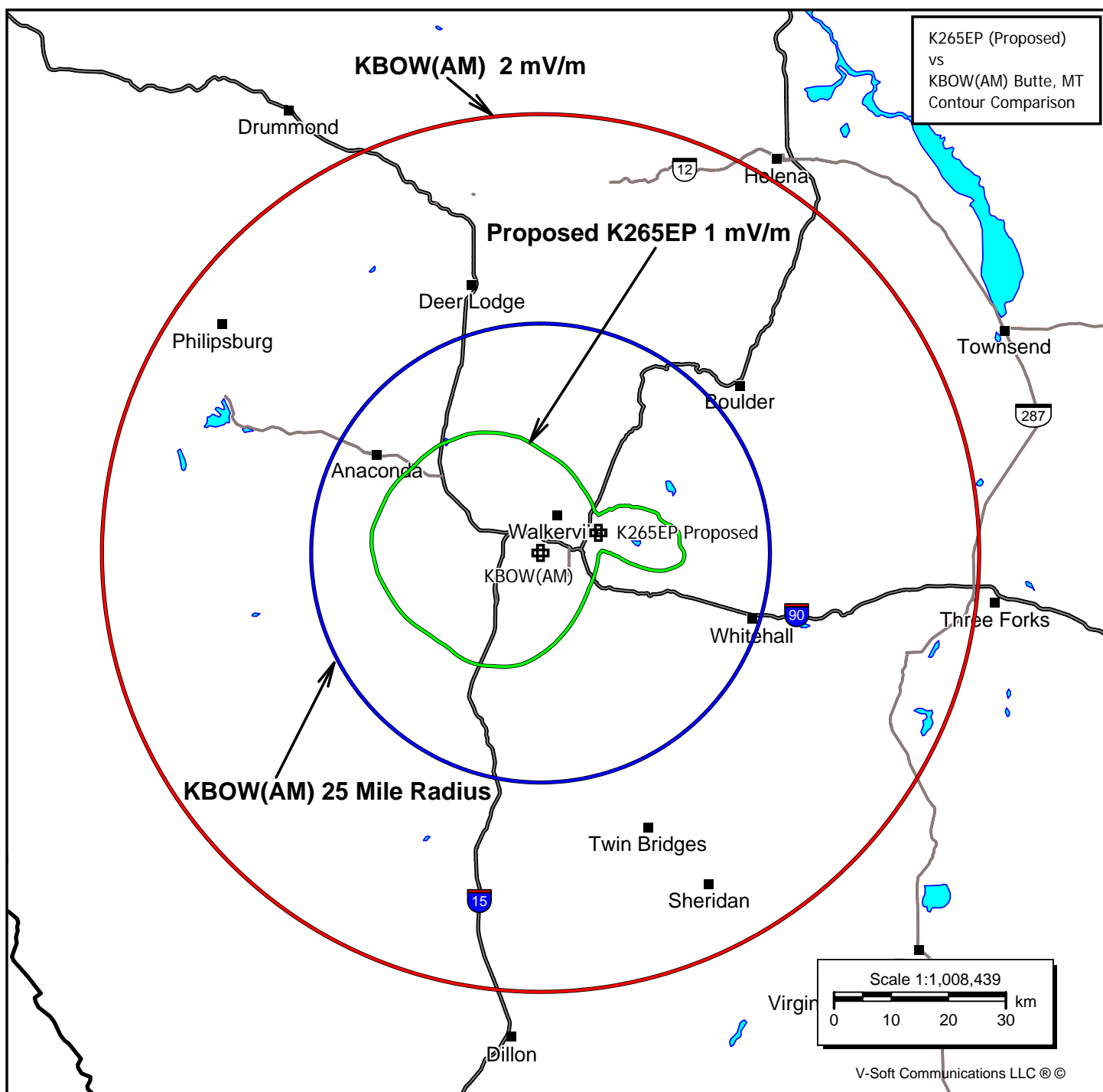
The proposed facility is exempt from environmental processing because the facility is not located at a location specified in Section 1.1307(a)(1)-(8) of the Commission's Rules and since the tower in question already exists. The tower is located in a long-ago established antenna farm with structures hundreds of feet higher and immediately adjacent to the structure on which the instantly proposed facility is located. As such, tower registration is not necessary.

Exhibit 1

**Primary AM Station 2 mV/m Contour
And 25 Mile Radius Contour**

vs.

Proposed Translator Protected Contour



K265EP Proposed

Channel: 268D
Frequency: 101.5 MHz
Latitude: 46-00-23 N
Longitude: 112-26-28 W
COR AGL Height: 57.0 m
COR AMSL Height: 2553.0 m
Base Elevation: 2496.0 m
COR HAAT: 577.19 m
ERP: 0.25 kW
Horiz. Pattern: Directional
Vert. Pattern: No
Prop Model: None

KBOW(AM)

Frequency: 550 khz
Latitude: 45-58-30 N
Longitude: 112-34-18 W
ERP: 5.00 kW

Exhibit 2

Section 74.1204 Interference Tabulations

K265EP on Channel 268

Section 74.1204 Contour Overlap Tabulations

REFERENCE CH# 268D - 101.5 MHz, Pwr= 0.25 kW DA, HAAT= 577.2 M, COR= 2553 M DISPLAY DATES
 46 00 23.0 N. DATA 02-16-13
 112 26 28.0 W. SEARCH 02-24-13

Average Protected F(50-50)= 31.57 km
Standard Directional

CH CITY	CALL	TYPE ANT STATE	AZI <--	DIST FILE #	LAT LNG	PWR(kW) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*
265D Wal kerville	K265EP	LIC DV_ MT	288.5 108.5	7.61 BLFT20121116AAA	46 01 41.0 112 32 04.0	0.001	0.0 1911	1.2 Hi-line Radio Fellowship,	-27.1*	5.5
266C Helena	KZMT	LIC _C_ MT	5.9 185.9	82.84 BLH20041122ACA	46 44 51.8 112 19 47.6	95.000 607	11.8 2278	82.0 Ccr-helena Iv, Lic	67.7	0.5
269A Whi tehall	NEW	CP _CX MT	123.1 303.3	28.98 BNPH20110629AAJ	45 51 50.0 112 07 41.0	0.150 -118	8.9 1386	6.2 Lopester Broadcasting	8.0	3.0
268C1 Frenchtown	KGVO-FM	LIC NC_ MT	307.6 126.4	147.28 BLH20071105AER	46 48 08.0 113 58 21.0	3.600 637	99.3 1916	38.6 Townsquare Medi a Mi ssoula	19.6	22.6
271C2 Bozeman	KBMC	LIC _CN MT	113.8 294.7	99.91 BLED19940223KA	45 38 18.0 111 16 05.0	20.500 222	5.9 1770	53.1 Montana State Uni versity -	79.2	46.6

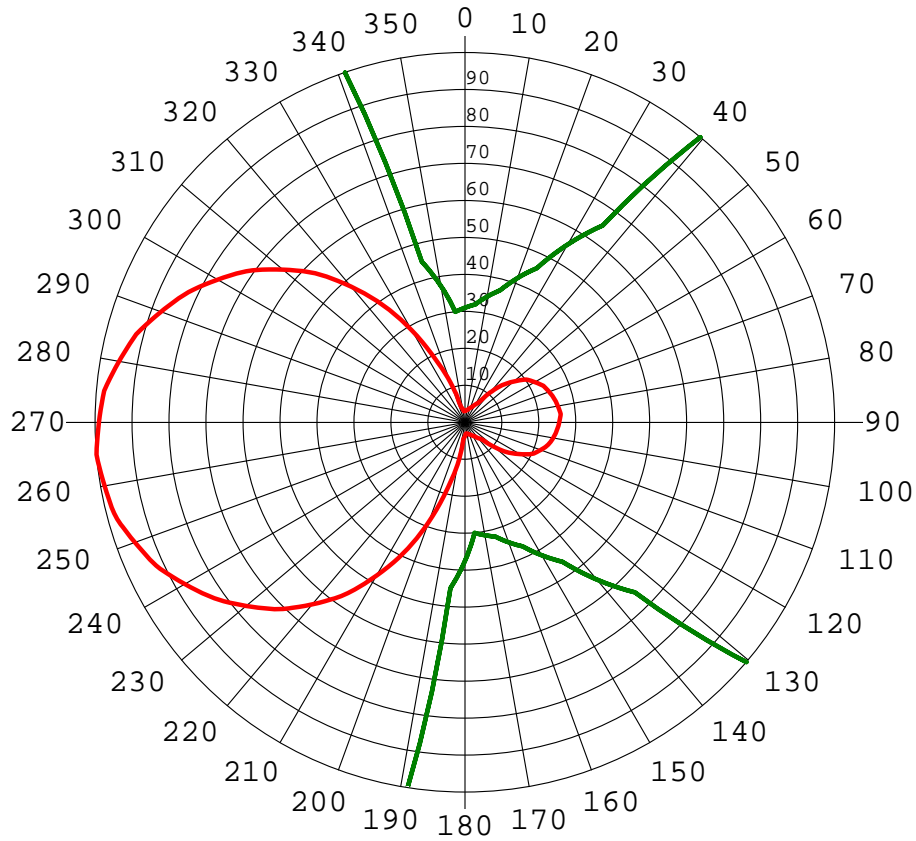
Terrain database is NGDC 30 SEC , R= 73.215 qualifying spacings or FCC minimum Spacings in KM, M= Margin in KM
 Contour distances are on direct line to and from reference station. Reference zone= , Co to 3rd adjacent.

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.

K265EP Butte, MT Proposed Pattern



Azi	Rel	dBk	kW	dB	Azi	Rel	dBk	kW	dB
0	1.000	0.00	1.000	0.00	180	0.260	-11.70	0.068	-11.70
10	0.979	-0.18	0.958	-0.18	190	0.250	-12.04	0.062	-12.04
20	0.920	-0.72	0.846	-0.72	200	0.234	-12.62	0.055	-12.62
30	0.829	-1.63	0.687	-1.63	210	0.202	-13.89	0.041	-13.89
40	0.715	-2.91	0.511	-2.91	220	0.142	-16.95	0.020	-16.95
50	0.570	-4.88	0.325	-4.88	230	0.065	-23.74	0.004	-23.74
60	0.388	-8.22	0.151	-8.22	240	0.046	-26.74	0.002	-26.74
70	0.187	-14.56	0.035	-14.56	250	0.037	-28.64	0.001	-28.64
80	0.045	-26.94	0.002	-26.94	260	0.032	-29.90	0.001	-29.90
90	0.030	-30.46	0.001	-30.46	270	0.030	-30.46	0.001	-30.46
100	0.032	-29.90	0.001	-29.90	280	0.045	-26.94	0.002	-26.94
110	0.037	-28.64	0.001	-28.64	290	0.187	-14.56	0.035	-14.56
120	0.046	-26.74	0.002	-26.74	300	0.388	-8.22	0.151	-8.22
130	0.065	-23.74	0.004	-23.74	310	0.570	-4.88	0.325	-4.88
140	0.142	-16.95	0.020	-16.95	320	0.715	-2.91	0.511	-2.91
150	0.202	-13.89	0.041	-13.89	330	0.829	-1.63	0.687	-1.63
160	0.234	-12.62	0.055	-12.62	340	0.920	-0.72	0.846	-0.72
170	0.250	-12.04	0.062	-12.04	350	0.979	-0.18	0.958	-0.18

Rotation Angle = 265