

K300CD
Seeley Lake, MT
Proposed Minor Modification
of Permitted Facility

Application Overview:

The Applicant proposes to modify BNPFT20080620ANZ using the following parameters:

Tech Box:

Channel:	247
Antenna Coordinates:	N47-00-14, W113-27-21 (NAD 27)
ASRN:	N/A
Tower Site Base AMSL:	1759 m
Overall Tower Height AGL:	12 m
COR AGL:	5 m
ERP:	Vertically Polarized 0.055 kW
Directional Antenna:	No

Primary Station and Booster Protected Contour Relationship:

Exhibit 1 demonstrates that the proposed facility's protected contour is completely encompassed by the protected contour of the primary station being rebroadcast. It also shows that the proposed F(50,50) 60 dBu overlaps a portion of the currently authorized F(50,50) 60 dBu contour complying with the minor change rules.

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 97% of the Uncontrolled Standard with a Power Density of 194 microwatts per square centimeter 0.6 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

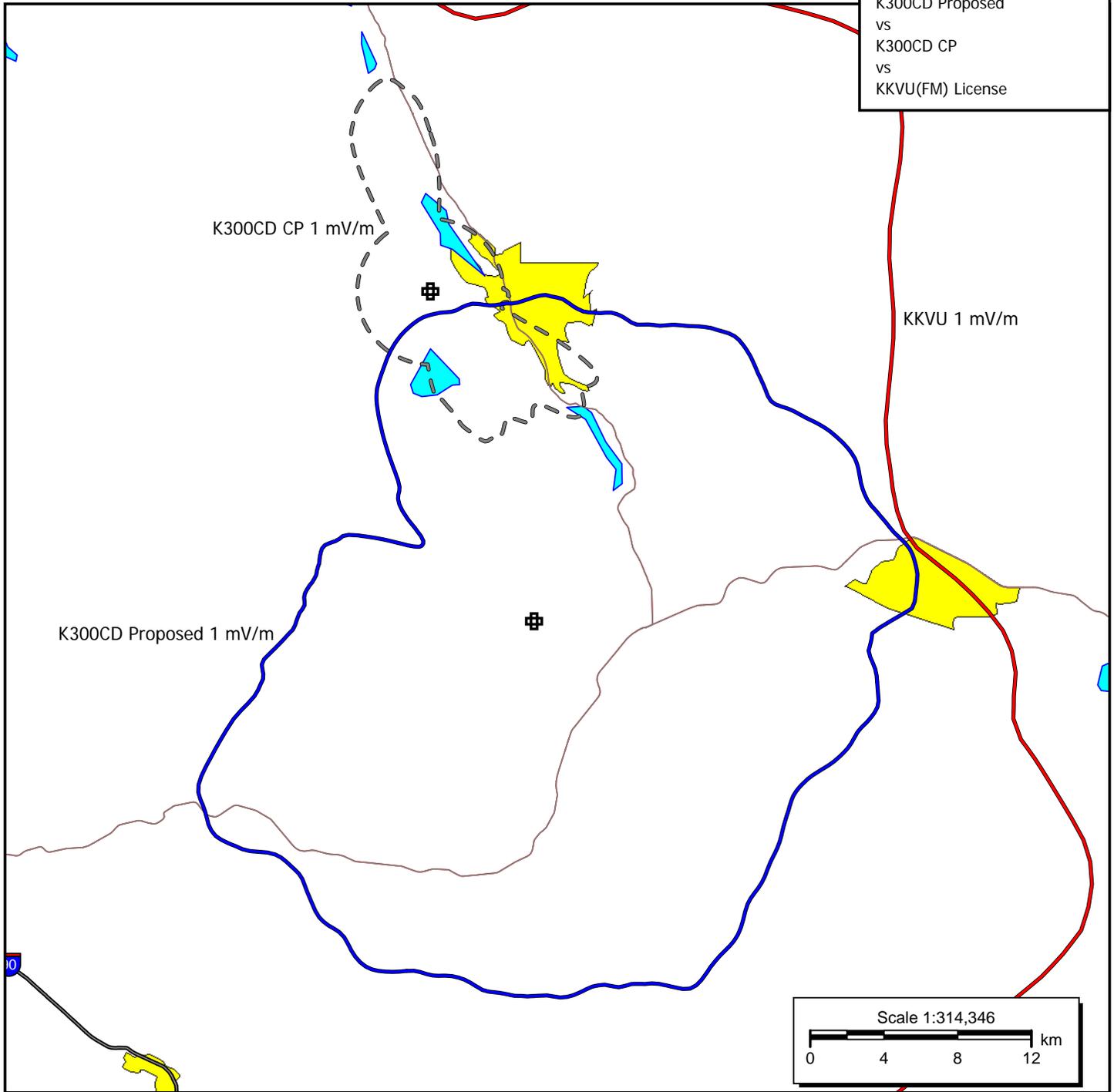
vs.

Proposed Translator Protected Contour

vs.

Permitted Translator Protected Contour

F(50,50) 60 dBu Contour Map
 K300CD Proposed
 vs
 K300CD CP
 vs
 KKVU(FM) License



K300CD Proposed 1 mV/m
 Channel: 247D
 Frequency: 97.3 MHz
 Latitude: 47-00-14 N
 Longitude: 113-27-21 W
 COR AGL Height: 5.0 m
 COR AMSL Height: 1764.0 m
 Base Elevation: 1759.0 m
 COR HAAT: 372.0 m
 ERP: 0.055 kW
 Horiz. Pattern: Omni
 Vert. Pattern: No
 Prop Model: None

KKVU 1 mV/m
 BLH20050718AFZ
 Channel: 283C0
 Frequency: 104.5 MHz
 Latitude: 46-48-06 N
 Longitude: 113-58-22 W
 COR AGL Height: 48.0 m
 COR AMSL Height: 1914.0 m
 Base Elevation: 1866.0 m
 COR HAAT: 635.0 m
 ERP: 15.00 kW
 Horiz. Pattern: Omni
 Vert. Pattern: No
 Prop Model: None

K300CD CP 1 mV/m
 BNPFT20080620ANZ
 Channel: 300D
 Frequency: 107.9 MHz
 Latitude: 47-09-53.50 N
 Longitude: 113-31-48.30 W
 COR AGL Height: 5.0 m
 COR AMSL Height: 1511.0 m
 Base Elevation: 1506.0 m
 COR HAAT: 0.0 m
 ERP: 0.025 kW
 Horiz. Pattern: Omni
 Vert. Pattern: No
 Prop Model: None

Exhibit 2

Section 74.1204 Interference Tabulations

K300CD Seel ey Lake, MT

Contour Overlap Tabulations

REFERENCE
47 00 14.0 N.
113 27 21.0 W.

CH# 247D - 97.3 MHz, Pwr= 0.055 kW, HAAT= 372.0 M, COR= 1764 M
Average Protected F(50-50)= 17.2 km

DISPLAY DATES
DATA 05-26-10
SEARCH 06-24-10

CH CI TY	CALL	TYPE STATE	ANT STATE	AZI <--	DI ST FILE #	LAT LNG	PWR(kW) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*
246C	KALS Kal i spel l	LIC	_CX MT	329.0 148.3	131.49 BMLH20040607AAC	48 00 48.0 114 21 55.0	26.500 758	118.1 2065	80.3 Kal i spel l	-2.53 Christ i an Radio	27.42
245D	K245AP Mi ssoul a	LIC	_C_ MT	251.6 71.3	42.64 BLFT20070621AQO	46 52 56.0 113 59 13.0	0.250	1.1 1114	7.1 Ccr-mi ssoul a Iv, LI c	24.27	35.03
250D	KDXT-FM1 Mi ssoul a	CP	DC_ MT	241.4 61.0	45.28 BNPFTB20080225AB	46 48 30.0 113 58 38.0	0.029	0.1 1777	5.5 Shei la Callahan & Fri ends,	24.68	39.26
250C3	KDXT Lo lo	LIC	NC_ MT	216.2 35.8	67.93 BLH20080208ADZ	46 30 37.0 113 58 48.0	10.000 127	2.9 1471	29.7 Shei la Callahan And Fri end	45.17	37.76
247L1	KNEH-LP Hel ena	LIC	___ MT	111.5 292.6	118.08 BLL20080708AON	46 36 21.0 112 01 18.0	0.100	18.6 1215	5.6 Hel ena Communi ty Educati on	81.13	52.03
245C1	KORV Deer Lodge	LIC	_C_ MT	158.7 339.1	107.62 BLH20000407ACG	46 06 03.0 112 57 00.0	20.000 300	5.6 2215	51.1 Robert Cummi ngs Tool e	80.70	55.95

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)