

KISU-FM
Pocatello, ID
Proposed Minor Modification
Of Licensed Facility

Application Overview:

KISU-FM (FCC Facility ID# 85417) proposes to modify its currently Licensed Facilities using the following parameters:

Tech Box:

Channel:	216
Class:	C2
Antenna Coordinates:	N42-51-46, W112-31-03 (NAD 27)
ASRN:	1213130
Tower Height AGL:	106 m
COR AMSL:	1830 m
COR AGL:	50 m
COR HAAT:	307 m
ERP:	5.0 (Vertical Only) kW**
Directional Antenna:	No

**Note: Vertical Polarization is currently authorized for the instant facility (see BLED-20041202ADT). The tower owner is requiring that the instant facility move its antenna to a location lower on the tower. As such, the licensee intends to re-use its current antenna at that location on the tower and respectfully requests authorization for the continued use of this antenna.

Antenna Site City-Grade Coverage:

Exhibit 1 demonstrates that the proposed facility's antenna site provides city grade coverage of KISU-FM's proposed community of license – Pocatello, ID. As can be seen in the Exhibit, 100% of Pocatello's community boundaries are encompassed by the F(50,50) 60 dBu contour of the proposed facility. Also, no major terrain obstructions are located between the antenna site and the community.

Section 73.509 Interference Study:

Exhibit 2 is a contour overlap study from the proposed KISU-FM antenna site. It notes that the proposed KISU-FM facility's contours do not prohibitively overlap any other facility or authorization.

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 Full wavelength spacing, and the AGL height and ERP proposed in this application, the highest predicted power density 2 meters above ground is less than 34.6% of the Uncontrolled Standard

with a Power Density of 69.1 microwatts per square centimeter 11 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.

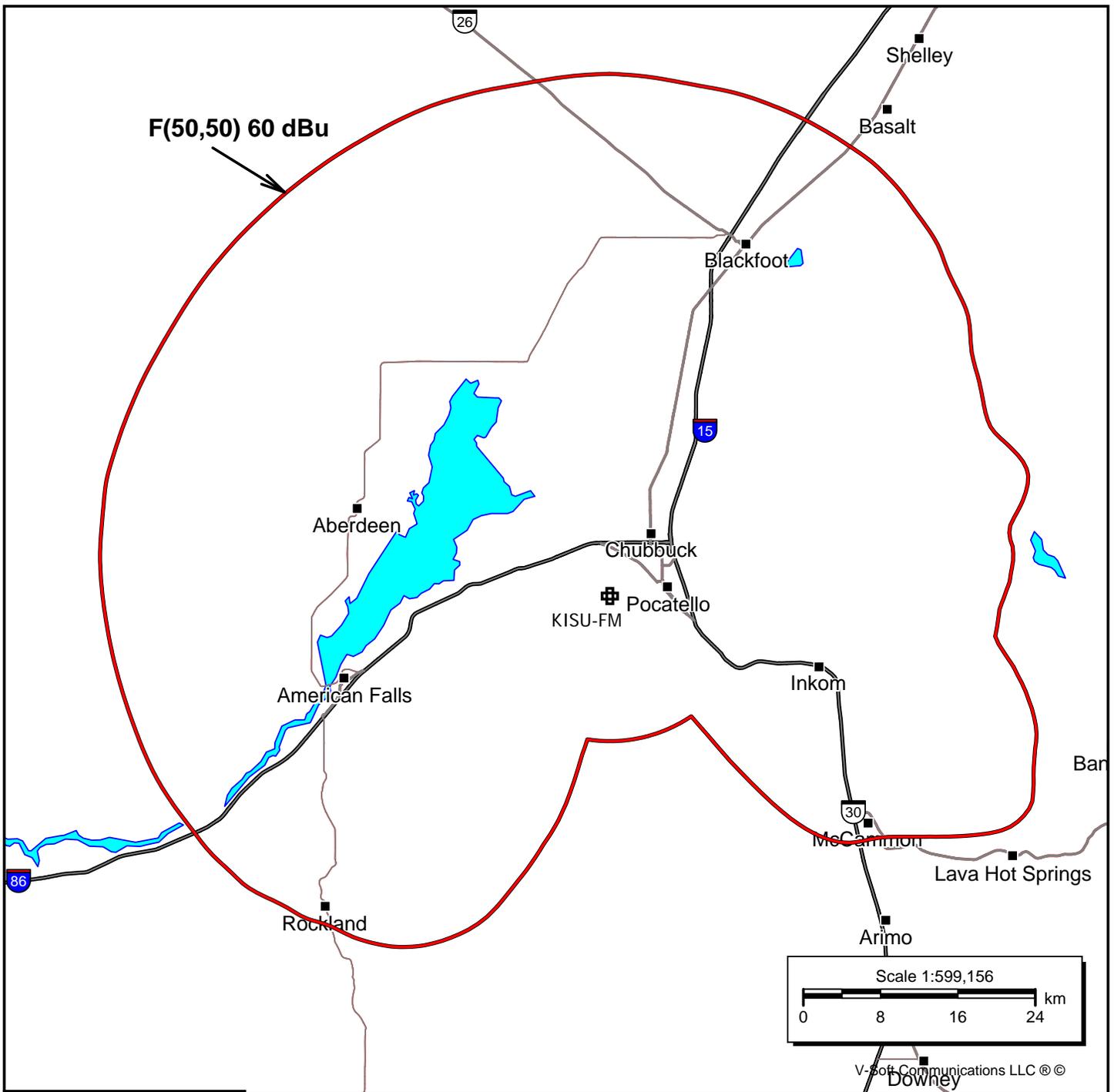
Existing Tower:

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

Proposed Antenna Site Contour Map:

F(50,50) City-Grade Contour



V-Soft Communications LLC ©

KISU-FM

Proposed
 Channel: 216C2
 Frequency: 91.1 MHz
 Latitude: 42-51-46 N
 Longitude: 112-31-03 W
 COR AGL Height: 50.0 m
 COR AMSL Height: 1830.0 m
 Base Elevation: 1780.0 m
 COR HAAT: 307.29 m
 ERP: 5.00 kW
 Horiz. Pattern: Omni
 Vert. Pattern: No
 Prop Model: None

Exhibit 2

Section 73.509 Contour Overlap Tabulations

KISU-FM 216C2 Pocatello, ID
 Section 73.509 Overlap Study
 Average Protected F(50-50) = 44.35 km
 Omni-directional

REFERENCE
 42 51 46.0 N.
 112 31 03.0 W.

CH# 216C2 - 91.1 MHz, Pwr= 5 kW, HAAT= 307.3 M, COR= 1830 M

DISPLAY DATES
 DATA 09-05-16
 SEARCH 09-20-16

CH CITY	CALL	TYPE STATE	ANT	AZI <--	DIST FILE #	LAT LNG	PWR(kW) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*
216C2 Pocatello	KISU-FM	LIC_VX ID		0.0 0.0	0.00 BLED20041202ADT	42 51 46.0 112 31 03.0	4.500 318	130.2 1841	53.6 Idaho State	-184.2*	-184.4*
216C2 Sun Valley	KBSS	LIC_DCX ID		300.3 119.0	175.54 BLED20040901ABR	43 38 36.0 114 23 49.0	0.700 570	112.6 2644	43.8 Idaho State Board Of Educa	9.9	2.6
215A Menan	KTSJ	LIC_DCX ID		23.1 203.5	112.18 BLED20101228ABU	43 47 22.0 111 58 05.0	0.750 241	41.2 1719	27.2 Idaho Conference Of Sevent	17.9	5.0
214C Twin Falls	KCIR	LIC_DC_ ID		237.0 56.3	106.73 BLED20130215AAV	42 20 09.8 113 36 18.5	45.000 762	8.5 2543	84.3 Faith Communications Corp	49.2	18.2
216A Jackson	KMWY	LIC_C_ WY		64.5 245.7	158.18 BLED20100528AAB	43 27 40.0 110 45 09.0	0.350 312	88.6 2467	30.6 The Moody Bible Institute	26.2	20.0
213A Idaho Falls	KAI O	LIC_VX ID		33.9 214.3	91.43 BMLLED20150826ABB	43 32 37.0 111 53 07.0	0.500 161	1.6 1708	25.0 Educational Media Foundati	37.9	62.2
219A Ririe	KSQS	LIC_DC_ ID		33.9 214.3	91.43 BLED20060908AAG	43 32 37.0 111 53 07.0	0.250 162	1.1 1707	21.2 Faith Communications Corp.	38.3	66.0
217A Afton	KUWA	LIC_CN WY		90.1 271.1	125.71 BLED19980710KB	42 51 02.0 110 58 46.0	0.400 -95	11.4 1996	8.0 University Of Wyoming	73.3	56.9

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. Call signs with strikeout need not be protected.
 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 restricted contour.
 < = Station meets FCC minimum distance spacing for its class.
 < = Contour Overlap