

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.

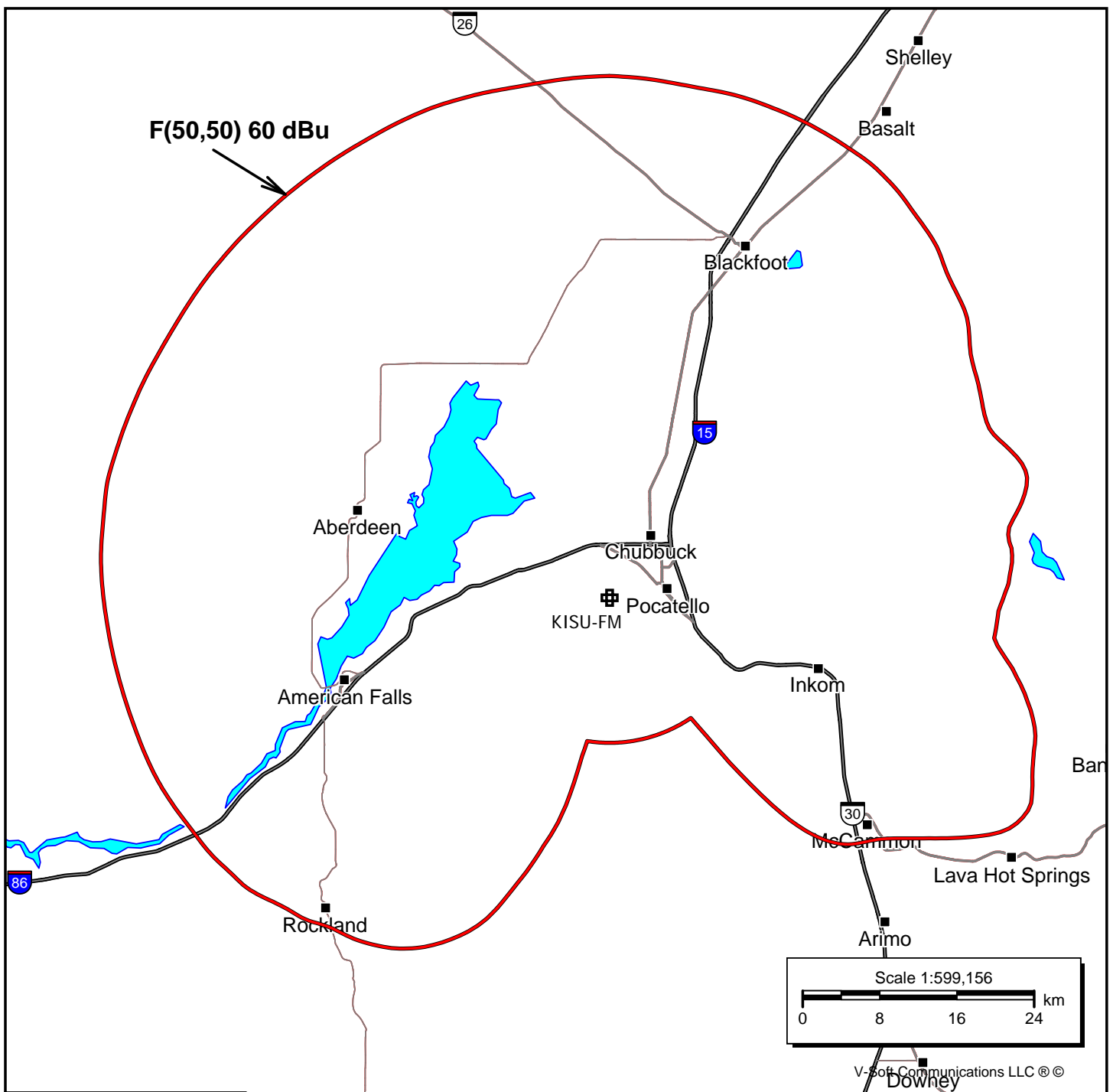
Existing Tower:

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



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

<div> <div>REFERENCE</div> <div>42 51 46.0 N.</div> <div>112 31 03.0 W.</div> </div> <div> <div>KISU-FM 216C2 Pocatello, ID</div> <div>Section 73.509 Overlap Study</div> <div>Average Protected F(50-50)= 44.35 km</div> <div>Omni-directional</div> </div> <div> <div>DISPLAY DATES</div> <div>DATA 09-05-16</div> <div>SEARCH 09-20-16</div> </div>											
CH	CALL	TYPE	ANT	AZI	DIST	LAT	PWR(kW)	INT(km)	PRO(km)	*IN*	*OUT*
CITY		STATE		<--	FILE #	LNG	HAAT(M)	COR(M)	LICENSEE	(Overlap in km)	
216C2 KISU-FM		LIC_VX		0.0	0.00	42 51 46.0	4.500	130.2	53.6	-184.2*	-184.4*
Pocatello		ID		0.0	BLED20041202ADT	112 31 03.0	318	1841	Idaho State	University	
216C2 KBSS		LIC_DCX		300.3	175.54	43 38 36.0	0.700	112.6	43.8	9.9	2.6
Sun Valley		ID		119.0	BLED20040901ABR	114 23 49.0	570	2644	Idaho State Board Of Educa		
215A KTSJ		LIC_DCX		23.1	112.18	43 47 22.0	0.750	41.2	27.2	17.9	5.0
Menan		ID		203.5	BLED20101228ABU	111 58 05.0	241	1719	Idaho Conference Of Sevent		
214C KCIR		LIC_DC_		237.0	106.73	42 20 09.8	45.000	8.5	84.3	49.2	18.2
Twin Falls		ID		56.3	BLED20130215AAV	113 36 18.5	762	2543	Faith Communications Corp		
216A KMWY		LIC_C_		64.5	158.18	43 27 40.0	0.350	88.6	30.6	26.2	20.0
Jackson		WY		245.7	BLED20100528AAB	110 45 09.0	312	2467	The Moody Bible Institute		
213A KAI O		LIC_VX		33.9	91.43	43 32 37.0	0.500	1.6	25.0	37.9	62.2
Idaho Falls		ID		214.3	BLED20150826ABB	111 53 07.0	161	1708	Educational Media Foundati		
219A KSQS		LIC_DC_		33.9	91.43	43 32 37.0	0.250	1.1	21.2	38.3	66.0
Ririe		ID		214.3	BLED20060908AAG	111 53 07.0	162	1707	Faith Communications Corp.		
217A KUWA		LIC_CN		90.1	125.71	42 51 02.0	0.400	11.4	8.0	73.3	56.9
Afton		WY		271.1	BLED19980710KB	110 58 46.0	-95	1996	University Of Wyoming		

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