

K237FA
Pocatello, ID
Proposed Minor Modification
of Licensed Translator Facility

Application Overview:

The Applicant proposes to amend pending application BPFT-20120213ABQ using the following parameters:

Tech Box:

Channel:	237
Antenna Coordinates:	N42-52-26, W112-30-48 (NAD 27)
ASRN:	N/A
Tower Site Base AMSL:	1771 m
Overall Tower Height AGL:	45 m
COR AGL:	12 m
ERP:	0.06 kW
Directional Antenna:	Yes - see Exhibit 4

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 protected contour of the primary station being rebroadcast – KWIK(AM) Pocatello, ID. It should also be noted that the proposed protected contour for the translator does not extend beyond a 25 mile circle contour centered at the KWIK(AM) antenna site.

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 with the exception of the following:

- KPKY(FM) (BMLH-20061221AAH) on its Second adjacent channel

Section 74.1204(a) states that “an application for an FM translator station will not be accepted for filing if the proposed operation would involve overlap of predicted field strength contours with any other station, including commercial and noncommercial educational FM stations, FM translators and Class D (secondary) noncommercial educational FM stations.” However, Section 74.1204(d) states, “the provisions of this section concerning prohibited overlap will not apply where the area of such overlap lies entirely over water. In addition, an application otherwise precluded by this section will be accepted if it can be demonstrated that no actual interference will occur due to intervening terrain, lack of population or other such factors as may be applicable.” Using the undesired-to-desired ratio method regarding interference to a second or third adjacent frequency, interference is predicted to occur where the translator’s undesired signal exceeds the protection station’s desired signal by more than 40 dB. The free space formula was used to determine the signal strength of the proposed facility, in dBu, at the antenna site of the adjacent station(s).

The signal strength of KPKY(FM) at the proposed site is calculated to be 159.7 dBu. As such, the interfering contour of the proposed facility is its F(50,10) 199.7 dBu contour which will

not reach the ground at any location. Therefore, due to the absence of “potential listeners” within the interference contour, no interference is expected to occur.

No Other Co-Located Emitters Lower on Tower:

No other emitters are authorized to use the proposed tower beneath the proposed facility. A shared non-directional antenna used by KPKY(FM), KEGE(FM), and KLLP(FM) is located above the proposed facility.

Downward Radiation Study (Measure Upon Construction)

Due to the fact that several existing and proposed emitters are located at or near the site, the applicant agrees to conduct a Radiofrequency Electromagnetic Field survey at the site upon construction of the proposed facility to ensure that any areas at ground level that exceed the Commission’s exposure guideline values are appropriately marked and fenced. The results of the survey will be provided with the application for license.

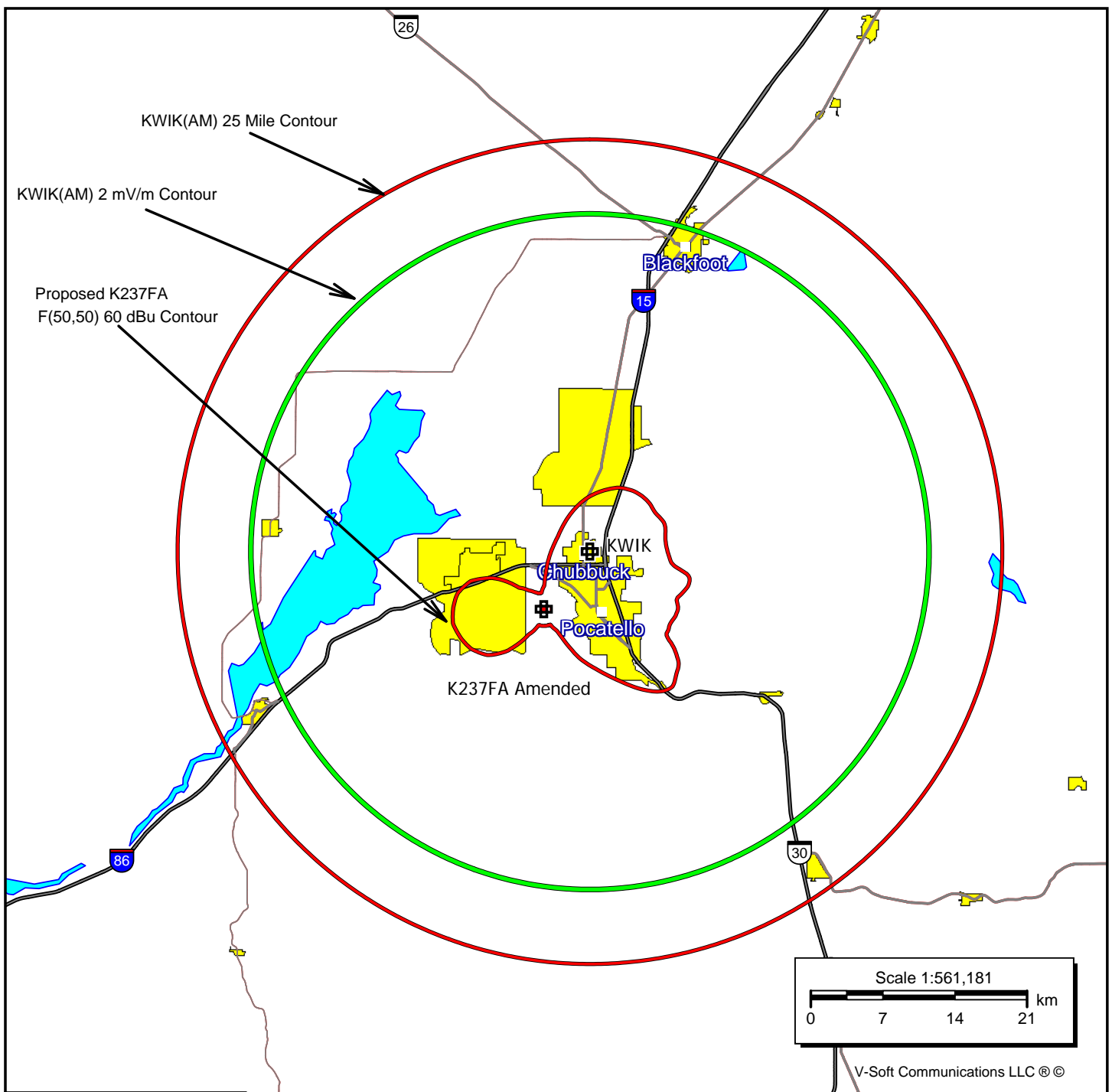
Even though the site will fully comply with the Uncontrolled Site Standards, access to the transmitting site will be restricted and appropriately marked with warning signs. When it becomes necessary for workers to ascend the tower, appropriate measures, such as reduction or shut down of power if necessary, 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 already exists.

Exhibit 1

**Primary Station Protected Contour
vs.
Proposed Translator Protected Contour**



K237FA Amended

(Proposed)
 Channel: 237D
 Frequency: 95.3 MHz
 Latitude: 42-52-26 N
 Longitude: 112-30-48 W
 COR AGL Height: 12.0 m
 COR AMSL Height: 1783.0 m
 Base Elevation: 1771.0 m
 COR HAAT: 0.0 m
 ERP: 0.06 kW
 Horiz. Pattern: Directional
 Vert. Pattern: No
 Prop Model: None

KWIK

Type: AM
 Channel: 1240
 Latitude: 42-55-27 N
 Longitude: 112-27-31 W

Exhibit 2

Section 74.1204 Interference Tabulations

K237FA Section 74.1204 Contour Overlap Study

REFERENCE
42 52 26.0 N.
112 30 48.0 W.

CH# 237D - 95.3 MHz, Pwr= 0.06 kW DA, HAAT= 0.0 M, COR= 1783 M
Average Protected F(50-50)= 4.94 km
Standard Directional

DISPLAY DATES
DATA 06-11-12
SEARCH 06-21-12

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*
235C Pocatello	KPKY	LIC_CX ID	0.0 0.0	0.00 BMLH20120314ADQ	42 52 26.0 112 30 48.0	100.000 306	12.3 1808	84.7 Rich Broadcasting	-14.5*<	-84.7*<
237D Pocatello	K237FA	APP_C_ ID	0.0 0.0	0.00 BPFT20120213ABQ	42 52 26.0 112 30 48.0	0.250 1783	81.3 1783	27.1 Carl Watkins	-83.6*	-39.6*
237D Pocatello	K237FA	CP_DC_ ID	90.0 270.0	0.02 BPFT20110217AAK	42 52 26.0 112 30 47.0	0.041 285	28.6 1787	7.8 Carl Watkins	-41.7*	-51.4*
237D Pocatello	K237FA	LIC_DC_ ID	90.0 270.0	0.02 BLFT20081015AAL	42 52 26.0 112 30 47.0	0.041 285	28.1 1787	7.6 Carl Watkins	-41.2*	-51.2*
237C Jackson	KZJH	LIC_CN WY	64.8 246.0	157.35 BLH19890714KA	43 27 40.0 110 45 09.0	100.000 322	189.3 2474	85.5 Chaparral Broadcasting Com	-45.4*<	27.1
239D Pocatello	651393	APP_DC_ ID	102.6 282.7	12.68 BNPFT20030317LXS	42 50 56.0 112 21 43.0	0.150 445	0.2 2080	11.0 Citicasters	0.2	1.2
239D Pocatello	645466	APP_C_ ID	7.8 187.8	9.93 BNPFT20030317EQK	42 57 45.0 112 29 48.0	0.250 22	1.1 1431	7.1 Radio Assist Ministry, Inc	2.9	2.8

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.

< = Contour Overlap

Exhibit 4

Antenna Azimuth Study

Antenna Pattern

Pre-Rotation Antenna Pattern....

Rotation Angle = 81

Azimuth (deg)	Relative Field
0.0	1.0
10.0	0.979
20.0	0.92
30.0	0.829
40.0	0.715
50.0	0.57
60.0	0.388
70.0	0.187
80.0	0.045
90.0	0.03
100.0	0.032
110.0	0.037
120.0	0.046
130.0	0.065
140.0	0.142
150.0	0.202
160.0	0.234
170.0	0.25
180.0	0.26
190.0	0.25
200.0	0.234
210.0	0.202
220.0	0.142
230.0	0.065
240.0	0.046
250.0	0.037
260.0	0.032
270.0	0.03
280.0	0.045
290.0	0.187
300.0	0.388
310.0	0.57
320.0	0.715
330.0	0.829
340.0	0.92
350.0	0.979

