

# **KZNP(FM)**

## **Mullan, ID**

Proposed Minor Modification  
Of Licensed Facility

### **Application Overview:**

KZNP(FM) (FCC Facility ID# 175929) proposes to modify its currently Licensed Facilities using the following parameters:

#### **Tech Box:**

Channel:	214
Class:	C2
Antenna Coordinates:	N47-27-17, W115-39-29 (NAD 27)
ASRN:	n/a
Tower Height AMSL:	17 m
COR AMSL:	1875 m
COR AGL:	15 m
COR HAAT:	460 m
ERP:	1.5 kW
Directional Antenna:	No

### **Antenna Site City-Grade Coverage:**

Exhibit 1 demonstrates that the proposed facility's antenna site provides city grade coverage of KZNP(FM)'s proposed community of license – Mullan, ID. As can be seen in the Exhibit, 100% of Mullan'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.

**Interference Study:**

Exhibit 2 is a contour overlap study from the proposed KZNP(FM) antenna site. It notes that the proposed KZNP(FM) facility's contours do not overlap any other facility. The study also demonstrates that the proposed community of license change from Plains, MT, to Mullan, ID, is mutually exclusive with the facility's present 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 Shively 6800 Series antenna with 2 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 38.8% of the Uncontrolled Standard with a Power Density of 77.6 microwatts per square centimeter 8.8 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.

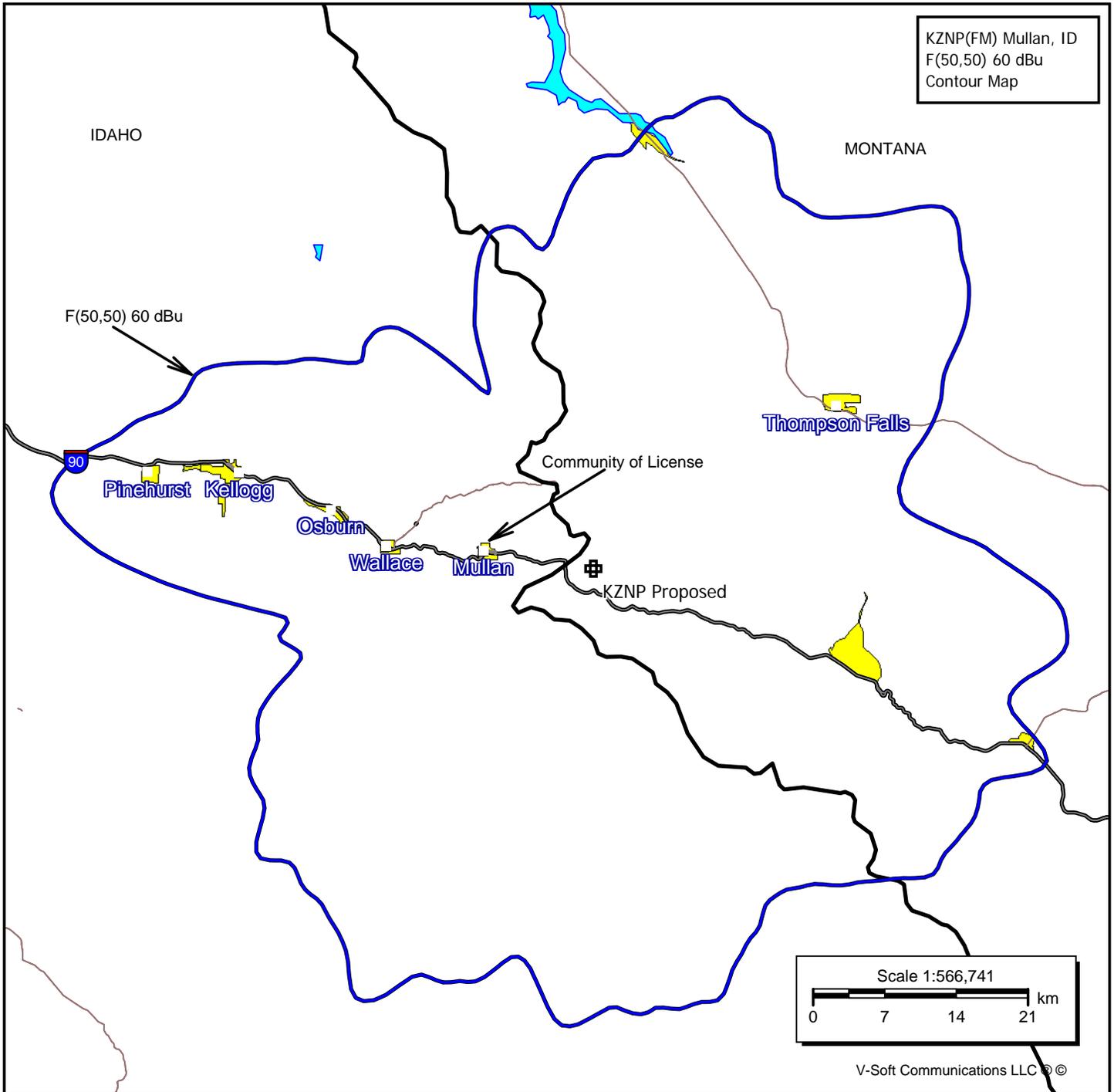
**Existing Tower:**

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.

# **Exhibit 1**

## **Proposed Antenna Site Contour Map:**

**F(50,50) 60 dBu City-Grade Contour**



**KZNP Proposed**

Channel: 214C2  
 Frequency: 90.7 MHz  
 Latitude: 47-27-17 N  
 Longitude: 115-39-29 W  
 COR AGL Height: 15.0 m  
 COR AMSL Height: 1875.0 m  
 Base Elevation: 1860.0 m  
 COR HAAT: 459.72 m  
 ERP: 1.50 kW  
 Horiz. Pattern: Omni  
 Vert. Pattern: No  
 Prop Model: None

# **Exhibit 2**

## **Section 73.509 Contour Overlap Tabulations**

KZNP(FM) Section 73.509 Overlap Study  
 Change of Community to Mullan, ID  
 Average Protected F(50-50)= 41.93 km  
 Omni-directional

REFERENCE  
 47 27 17.0 N.  
 115 39 29.0 W.

CH# 214C3 - 90.7 MHz, Pwr= 1.5 kW, HAAT= 459.7 M, COR= 1875 M

DISPLAY DATES  
 DATA 09-06-12  
 SEARCH 09-23-12

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*
213A Plains	KZNP	LIC_CX MT		98.3 278.9	61.01 BLED20120529ALO	47 22 22.0 114 51 31.0	0.013 831	24.2 2067	15.6 Hi-Line Radio	-9.8<	-25.4< Fellowship,
214A Polson	KMBM	LIC_CX MT		77.2 258.3	116.69 BLED20100317AAY	47 40 37.0 114 08 33.0	1.950 41	77.2 1067	25.9 Divine Mercy	8.7	5.2 Apostolate
216C Spokane	KPBX-FM	LIC_CN WA		277.4 96.3	108.12 BMLLED19831028AB	47 34 13.0 117 05 00.0	56.000 725	11.3 1571	85.6 Spokane Public	43.8	19.9 Radio, Inc.
214A Pullman	KZUU	LIC_CX WA		235.3 54.2	139.67 BLED20090210AAL	46 43 51.0 117 09 42.0	0.420 30	27.2 821	8.1 Washington State	73.1	29.2 University
213A Libby	KUFL	LIC_C_ MT		4.1 184.2	103.05 BLED20110524AHG	48 22 45.0 115 33 29.0	1.000 -318	14.2 753	10.2 The University Of	48.2	31.1 Montana
267L1 St. Regis	KTGC-LP«	LIC_ MT		110.3 290.7	43.49 BLL20041116ABT	47 19 05.0 115 07 06.0	0.100	111.4 1102	43.5 St. Regis Public	8.5R	35.0M School
215C3 Kalispell	KSPL	LIC_HN MT		39.4 220.3	152.47 BLED19970130KD	48 30 22.0 114 20 49.0	0.250 771	65.1 2090	43.7 The Moody Bible	42.9	40.8 Institute
215C1 Grangeville	KKRH	LIC_CX ID		191.5 11.2	180.63 BLED20110330ACC	45 51 42.0 116 07 25.0	1.900 709	87.7 1883	59.1 Calvary Chapel Of	54.1	62.7 Grangeville
214A Hamilton	KMZ0	LIC_CX MT		141.0 322.0	174.24 BLED20090831ACW	46 13 46.0 114 14 01.0	5.000 101	64.0 1674	15.0 Faith Communications	70.5	55.9 Corp.

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.  
 « = Station meets FCC minimum distance spacing for its class.  
 < = Contour Overlap