

KSNA-FM1

Pocatello

Proposed Minor Modification
of Permitted Booster Facility

Application Overview:

The Applicant proposes to modify BNPFTB-20081007AJY using the following parameters:

Tech Box:

Channel:	264
Antenna Coordinates:	N42-50-55, W112-26-45 (NAD 27)
ASRN:	N/A
Tower Site Base AMSL:	1428 m
Overall Tower Height AGL:	21 m
COR AGL:	15 m
ERP:	2.2 kW
Directional Antenna:	Yes - see Exhibit 4

Primary Station and Booster Protected Contour Relationship:

Exhibit 1 demonstrates that the proposed booster facility's protected contour is completely encompassed by the protected contour of the primary station being rebroadcast.

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 Shively 6810 antenna with 2 sections and 0.5 wavelength spacing, and the AGL height and ERP proposed in this application, the highest predicted power density 2 meters above ground is less than 36.7% of the Uncontrolled Standard with a Power Density of 73.35 microwatts per square centimeter 23.6 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 Farm:

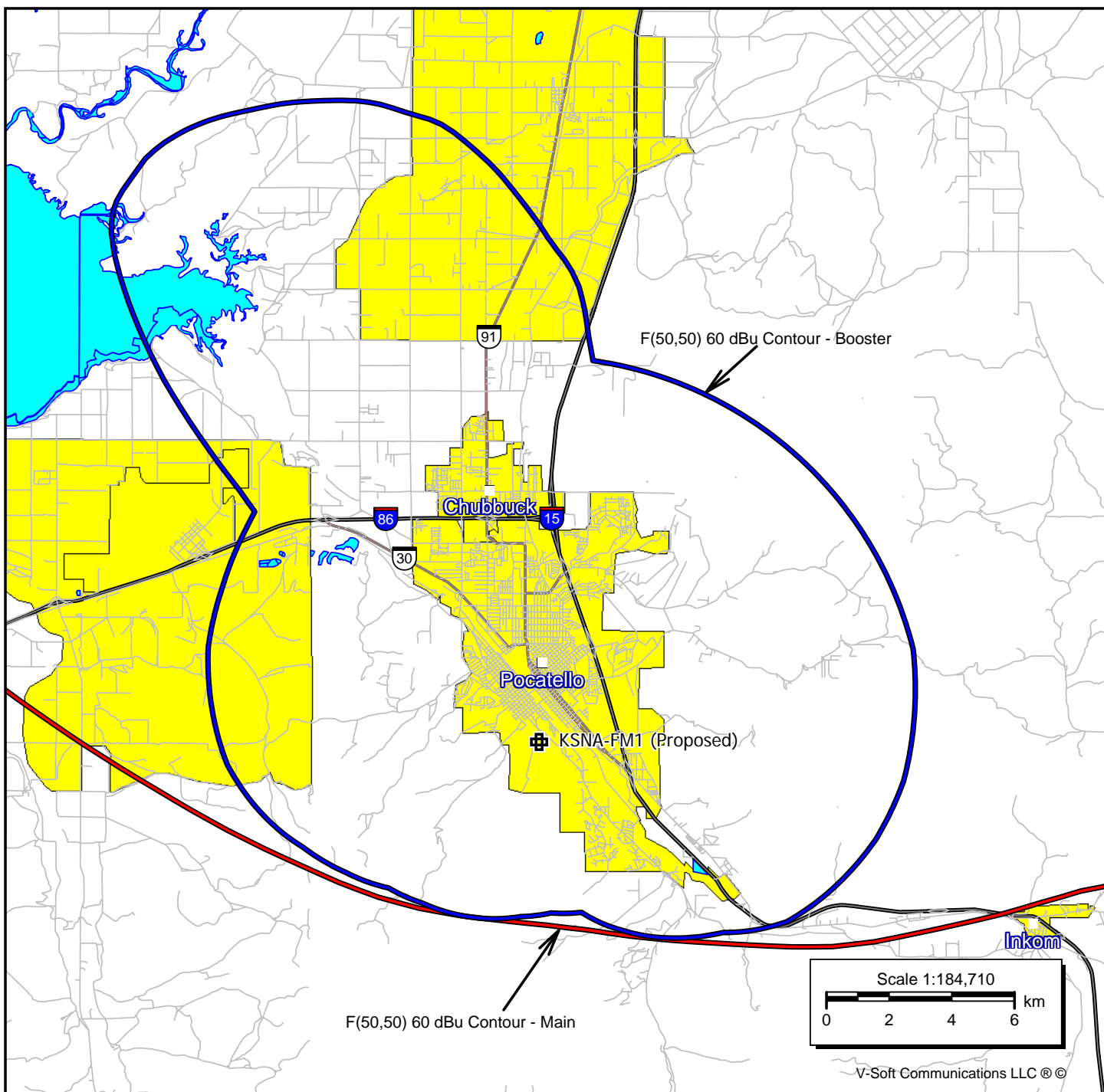
The proposed tower is a new facility. As such, the applicant has examined the tower's impact on aviation through the use of the Commission's TOWAIR program. According to TOWAIR, the proposed structure does not present a hazard to air navigation and does not require

coordination with the FAA since it is less than 200 feet AGL and is not within 8 km of any airport. See Exhibit 3 for the TOWAIR output. Exhibit 3A is a topographic map of the proposed antenna site.

The applicant complies with the Nationwide Programmatic Agreement with regard to the National Historic Preservation Act Review Process and National Environmental Protection Act. Since the new tower shall be constructed within an existing antenna tower farm that is located immediately adjacent to two water towers and a prison, it is not believed to have a negative impact to environmentally sensitive or historically valuable locations. The proposed tower is not taller than any other tower at the tower farm. As such, the proposed tower is believed to comply with NEPA/SHPO concerns.

Exhibit 1

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



KSNA-FM1 (Proposed)

BNPFTB20081007AJY
 Channel: 264D
 Frequency: 100.7 MHz
 Latitude: 42-50-55 N
 Longitude: 112-26-45 W
 COR AGL Height: 15.0 m
 COR AMSL Height: 1443.0 m
 Base Elevation: 1428.0 m
 COR HAAT: -176.2 m
 ERP: 2.20 kW
 Horiz. Pattern: Directional
 Vert. Pattern: No
 Prop Model: None

KSNA.CP

BPH20070119AFZ
 Channel: 264C1
 Frequency: 100.7 MHz
 Latitude: 43-21-06 N
 Longitude: 112-00-29 W
 COR AGL Height: 49.0 m
 COR AMSL Height: 1789.0 m
 Base Elevation: 1740.0 m
 COR HAAT: 193.0 m
 ERP: 100.00 kW
 Horiz. Pattern: Omni
 Vert. Pattern: No
 Prop Model: None

V-Soft Communications LLC ©

Exhibit 2

Section 74.1204 Interference Tabulations

KSNA-FM1 Pocatello, ID Section 74.1204 Overlap Study CH# 264D - 100.7 MHz, Pwr= 2.2 kW DA, HAAT= -176.2 M, COR= 1443 M Average Protected F(50-50)= 12.28 km Standard Directional											
REFERENCE 42 50 55.0 N. 112 26 45.0 W.		DISPLAY DATES DATA 03-24-11 SEARCH 03-30-11									
CH CITY	CALL	TYPE STATE	ANT STATE	AZI <--	DIST FILE #	LAT LNG	PWR(kW) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*
264C1 Idaho Falls	KUPI -FM	CP _CX ID		32.3 212.6	66.3 BPH20070119AFZ	43 21 06.0 112 00 29.0	100.000 193	172.2 1789	72.6 Sandhill Media Group, LLC	-118.2*	-53.4*
263C1 Idaho Falls	KUPI -FM	CP _CX ID		32.3 212.6	66.3 BMPH20101012ACA	43 21 06.0 112 00 29.0	100.000 193	105.3 1789	72.6 Sandhill Media Group, LLC	-51.3*	-24.2*
264D Pocatello	KUPI -FM1	CP DC_ ID		270.0 90.0	0.0 BNPFTB20081007AJY	42 50 55.0 112 26 47.0	2.500 1442	25.2 1442	7.5 Sandhill Media Group, LLC	-35.4*	-43.2*
262D Pocatello	647097	APP _C_ ID		89.7 269.8	6.9 BNPFT20030317MDD	42 50 56.0 112 21 43.0	0.050 438	0.5 2073	20.8 Idaho Wireless Corporation	-5.5*	-15.6*
266D Pocatello	K266AF	LIC DCN ID		297.2 117.1	6.2 BLFT19961121TG	42 52 26.0 112 30 47.0	0.213 283	0.6 1784	17.9 Riverview Communications,	-5.7*	-13.3*
262D Pocatello	633970	APP DC_ ID		297.2 117.1	6.2 BNPFT20030317JUY	42 52 26.0 112 30 47.0	0.034 288	0.4 1790	14.0 Bonnieville Holding Company	-5.5*	-9.4*
261D Pocatello	639112	APP _C_ ID		141.3 321.3	3.0 BNPFT20030317ECE	42 49 40.0 112 25 23.0	0.250 -236	1.1 1419	10.2 Max T. Nichols	-6.1*	-8.6*
263C1 Rexburg	KBYI	LIC _CN ID		21.1 201.4	108.9 BLED19980722KA	43 45 44.0 111 57 30.0	100.000 211	97.9 1687	66.4 Brigham Young University -	-1.2	24.6
261D Blackfoot	639130	APP _C_ ID		10.0 190.0	36.0 BNPFT20030317ECC	43 10 04.0 112 22 08.0	0.250 52	1.1 1453	10.4 Max T. Nichols	22.6	24.0
264C Woodruff	KYMV	LIC _HX UT		150.9 331.8	250.5 BLH20060907AAW	40 52 16.0 110 59 43.0	88.000 647	214.2 3330	101.4 Simmons-SLC, LLC	29.2	125.4
261A Soda Springs	KITT	LIC _HN ID		108.4 288.9	72.1 BLH19811229AK	42 38 30.0 111 36 40.0	3.000 -84	2.1 1831	22.0 Tri-state Media Corporation	59.0	48.5

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.
 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.

Exhibit 3

TOWAIR Calculations (Aviation Concerns)



Antenna Structure Registration

[FCC](#) > [WTB](#) > [ASR](#) > [Online Systems](#) > TOWAIR[FCC Site Map](#)

TOWAIR Determination Results

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*** NOTICE ***

TOWAIR's findings are not definitive or binding, and we cannot guarantee that the data in TOWAIR are fully current and accurate. In some instances, TOWAIR may yield results that differ from application of the criteria set out in 47 C.F.R. Section 17.7 and 14 C.F.R. Section 77.13. A positive finding by TOWAIR recommending notification should be given considerable weight. On the other hand, a finding by TOWAIR recommending either for or against notification is not conclusive. It is the responsibility of each ASR participant to exercise due diligence to determine if it must coordinate its structure with the FAA. TOWAIR is only one tool designed to assist ASR participants in exercising this due diligence, and further investigation may be necessary to determine if FAA coordination is appropriate.

DETERMINATION Results

Structure does not require registration. There are no airports within 8 kilometers (5 miles) of the coordinates you provided.

Your Specifications

NAD83 Coordinates

Latitude	42-50-54.4 north
Longitude	112-26-48.4 west

Measurements (Meters)

Overall Structure Height (AGL)	21
Support Structure Height (AGL)	21
Site Elevation (AMSL)	1428

Structure Type

TOWER - Free standing or Guyed Structure used for Communications Purposes

Tower Construction Notifications

Notify Tribes and Historic Preservation Officers of your plans to build a tower.

ASR Help

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ASR Online Systems

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Exhibit 3A

Proposed Antenna Site Topographic Map

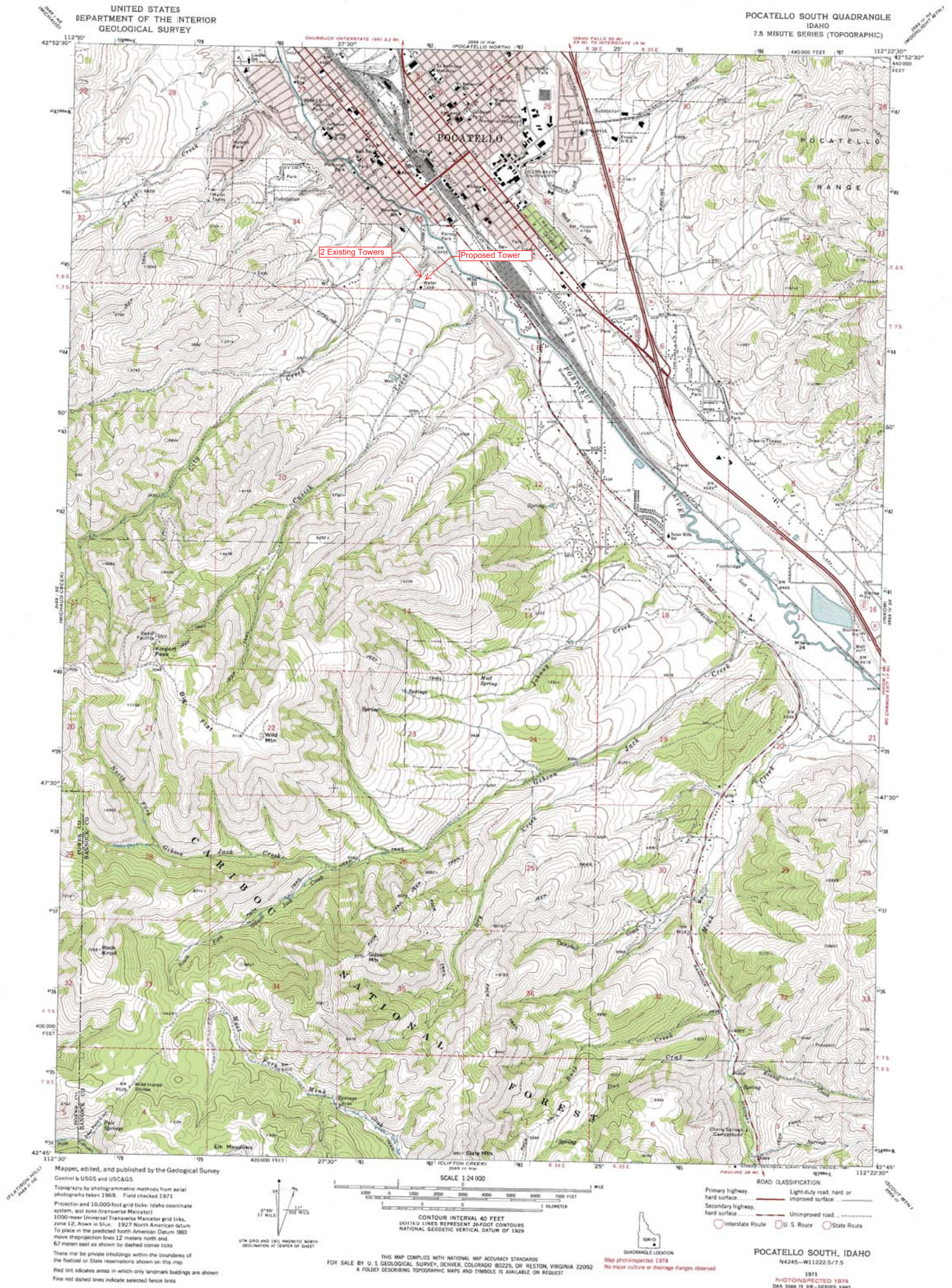


Exhibit 4

Proposed Directional Pattern Azimuth Tabulations

Graph is Relative Field

Azi	Field	dBk	kW
000	1.000	03.4	2.200
010	1.000	03.4	2.200
020	1.000	03.4	2.200
030	1.000	03.4	2.200
040	1.000	03.4	2.200
050	1.000	03.4	2.200
060	1.000	03.4	2.200
070	1.000	03.4	2.200
080	0.980	03.2	2.113
090	0.930	02.8	1.903
100	0.868	02.2	1.658
110	0.780	01.3	1.338
120	0.680	00.1	0.1017
130	0.560	-01.6	0.690
140	0.434	-03.8	0.414
150	0.344	-05.8	0.260
160	0.258	-08.3	0.146
170	0.206	-10.3	0.093
180	0.204	-10.4	0.092
190	0.218	-09.8	0.105
200	0.238	-09.0	0.125
210	0.258	-08.3	0.146
220	0.282	-07.6	0.175
230	0.328	-06.3	0.237
240	0.402	-04.5	0.356
250	0.490	-02.8	0.528
260	0.590	-01.2	0.766
270	0.678	00.0	1.011
280	0.748	00.9	1.231
290	0.806	01.6	1.429
300	0.850	02.0	1.590
310	0.904	02.5	1.798
320	0.964	03.1	2.044
330	1.000	03.4	2.200
340	1.000	03.4	2.200
350	1.000	03.4	2.200

