

KCPW-FM
Salt Lake City, UT
Proposed Minor Modification
Of Licensed Facility

Application Overview:

KCPW-FM (FCC Facility ID# 13481) proposes to modify its currently Licensed Facilities using the following parameters:

Tech Box:

Channel:	202
Class:	C3
Antenna Coordinates:	N40-37-53, W112-07-50 (NAD 27)
ASRN:	N/A
Tower Height AGL:	15 m
COR AMSL:	2088 m
COR AGL:	12 m
COR HAAT:	416 m
ERP:	0.45 kW
Directional Antenna:	Yes - see Exhibit 5

Antenna Site City-Grade Coverage:

Exhibit 1 demonstrates that the proposed facility's antenna site provides city grade coverage of KCPW-FM's proposed community of license – Salt Lake City, UT. As can be seen in the Exhibit, far more than 50% of Salt Lake City's community boundaries and 100% of its

residents 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 KCPW-FM antenna site. It notes that the proposed facility is short spaced to the Construction Permit for KPMD(FM) Evanston, WY, as authorized in BPED-20130219AAD which is now expired. It also notes that the proposed KCPW-FM facility's contours would come near to, but do not prohibitively overlap the following facilities:

-KWCR-FM Ogden, UT 201A (see BLED-19930903KA)

-KPGR(FM) Pleasant Grove, UT on 201A (see BLED-19810914AE)

Using the facilities proposed herein, KCPW-FM 202C3 complies with the contour protection requirements of Section 73.509 towards KWCR-FM, KPGR(FM), and . The attached contour overlap maps in Exhibit 3 demonstrate that this application complies with the contour protection requirements of Section 73.509.

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 18.1% of the Controlled Standard with a Power Density of 180.7 microwatts per square centimeter 3 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.

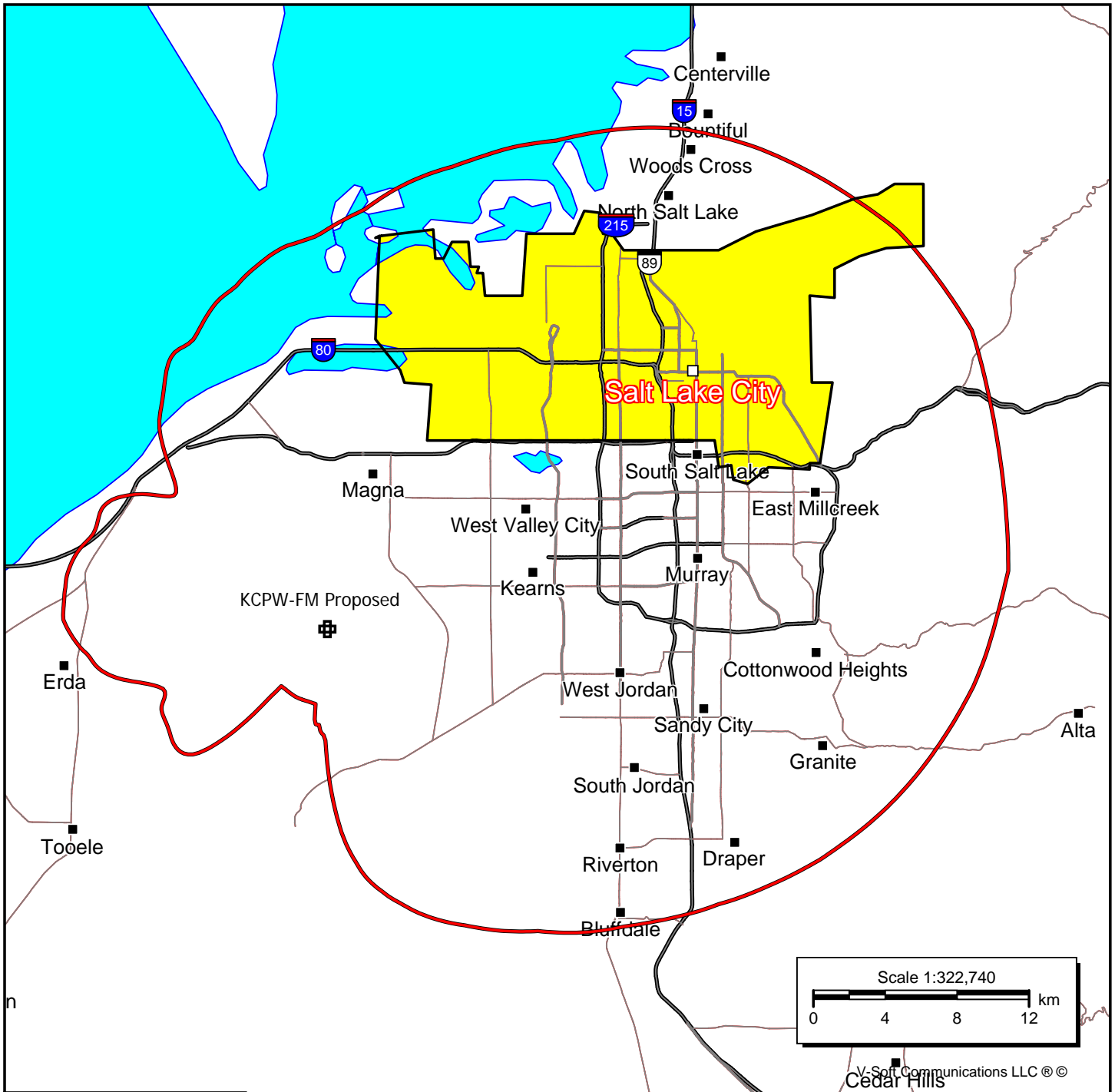
Existing Tower:

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



KCPW-FM Proposed

BMPED20160330ATI
Channel: 202C3
Frequency: 88.3 MHz
Latitude: 40-37-53 N
Longitude: 112-07-50 W
COR AGL Height: 12.0 m
COR AMSL Height: 2088.0 m
Base Elevation: 2076.0 m
COR HAAT: 416.0 m
ERP: 0.45 kW
Horiz. Pattern: Directional
Vert. Pattern: No
Prop Model: None

Exhibit 2

Section 73.509 Contour Overlap Tabulations

KCPW-FM Section 73.509 Overlap Study

Wasatch Public Media

REFERENCE
40 37 53.0 N.
112 07 50.0 W.CH# 202C3 - 88.3 MHz, Pwr= 0.45 kW DA, HAAT= 416.0 M, COR= 2088 M
Average Protected F(50-50)= 30.35 km
Standard DirectionalDISPLAY DATES
DATA 04-22-16
SEARCH 04-22-16

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*
202A Salt Lake City	KCPW-FM	CP DCX UT	45.6 225.7	27.57 BPED20160121AGT	40 48 16.9 111 53 48.4	0.750 203	95.1 1730	35.0 Wasatch Public Media	-104.1*	-107.6*
202A Salt Lake City	KCPW-FM	LIC DC_ UT	54.1 234.2	25.08 BLED20000724AAG	40 45 48.0 111 53 23.0	2.350 -61	77.7 1437	25.9 Wasatch Public Media	-90.9*	-103.8*
202C3 Salt Lake City	KCPW-FM	APP DCX UT	0.0 0.0	0.00 BMPED20160330ATI	40 37 53.0 112 07 50.0	0.450 416	71.6 2088	22.1 Wasatch Public Media	-93.7*	-93.7*
201A Ogden	KWCR-FM	LIC _CN UT	14.1 194.2	63.75 BLED19930903KA	41 11 17.0 111 56 43.0	2.000 -96	31.2 1482	21.1 Weber State University	6.2	1.5
201A Pleasant Grove	KPGR	LIC _CN UT	130.9 311.1	45.47 BLED19810914AE	40 21 48.0 111 43 30.0	0.115 -344	8.3 1457	5.8 Alpine School District	12.6	1.8
204C1 North Ogden	KNKL	LIC _VX UT	354.7 174.6	107.10 BLED20060616AAE	41 35 30.0 112 14 57.0	73.000 297	9.7 1623	71.2 Educational Media Foundati	76.0	35.5
201A Evanston	KPMD	LIC _CX WY	51.6 232.4	130.38 BMLED20140925AAB	41 21 10.0 110 54 29.0	0.092 411	35.4 2633	23.1 Western Inspirational Broa	57.1	49.7

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.

Exhibit 3

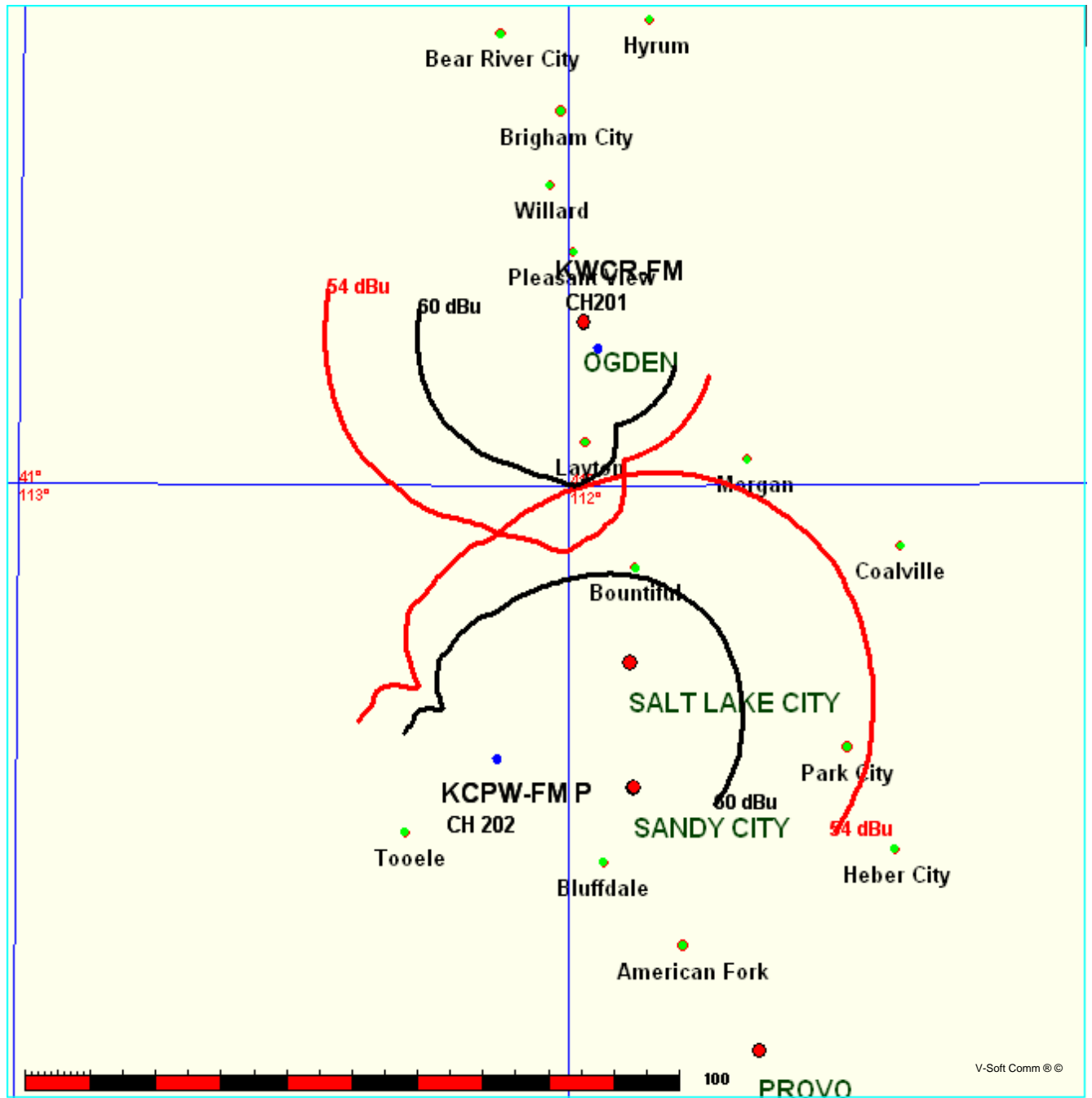
Section 73.509 Contour Overlap Maps

KCPW-FM vs KWCR-FM
Section 73.509 Overlap Map

FMCommander Single Allocation Study - 04-22-2016 - NGDC 30 SEC
KCPW-FM P's Overlaps (In= 6.15 km, Out= 1.46 km)

KCPW-FM P CH 202 C3 DA
Lat= 40 37 53.0, Lng= 112 07 50.0
0.45 kW 416 m HAAT, 2088 m COR
Prot.= 60 dBu, Intef.= 54 dBu

KWCR-FM CH 201 A BLED19930903KA
Lat= 41 11 17.0, Lng= 111 56 43.0
2.0 kW -96 m HAAT, 1482 m COR
Prot.= 60 dBu, Intef.= 54 dBu



04-22-2016

Terrain Data: NGDC 30 SEC

FMOver Analysis

KCPW-FM P

KWCR-FM BLED19930903KA

Channel = 202C3
 Max ERP = 0.45 kW
 RCAMSL = 2088 m
 N. Lat. 40 37 53.0
 W. Lng. 112 07 50.0
 Protected
 60 dBu

Channel = 201A
 Max ERP = 2 kW
 RCAMSL = 1482 m
 N. Lat. 41 11 17.0
 W. Lng. 111 56 43.0
 Interfering
 54 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
314.0	000.0302	0231.2	011.7	204.1	002.0000	0092.1	058.8	42.97	
315.0	000.0304	0247.8	012.1	204.4	002.0000	0092.4	058.5	43.11	
316.0	000.0307	0266.8	012.6	204.7	002.0000	0092.7	058.1	43.26	
317.0	000.0309	0287.3	013.1	205.1	002.0000	0093.0	057.7	43.42	
318.0	000.0311	0308.6	013.6	205.5	002.0000	0093.3	057.3	43.59	
319.0	000.0314	0328.9	014.0	205.8	002.0000	0093.6	056.9	43.75	
320.0	000.0316	0346.8	014.4	206.1	002.0000	0093.8	056.5	43.91	
321.0	000.0318	0361.7	014.8	206.3	002.0000	0093.9	056.2	44.05	
322.0	000.0321	0374.8	015.0	206.4	002.0000	0094.0	055.8	44.19	
323.0	000.0323	0387.0	015.3	206.5	002.0000	0094.1	055.5	44.32	
324.0	000.0326	0399.6	015.5	206.7	002.0000	0094.1	055.1	44.46	
325.0	000.0328	0413.2	015.8	206.8	002.0000	0094.2	054.7	44.61	
326.0	000.0330	0428.6	016.2	206.9	002.0000	0094.3	054.3	44.76	
327.0	000.0333	0445.2	016.5	207.1	002.0000	0094.4	053.9	44.92	
328.0	000.0335	0460.9	016.8	207.3	002.0000	0094.5	053.5	45.08	
329.0	000.0338	0474.1	017.1	207.3	002.0000	0094.5	053.1	45.24	
330.0	000.0340	0483.4	017.3	207.4	002.0000	0094.5	052.7	45.38	
331.0	000.0345	0488.1	017.5	207.3	002.0000	0094.5	052.4	45.51	
332.0	000.0348	0488.6	017.5	207.2	002.0000	0094.4	052.1	45.60	
333.0	000.0353	0487.1	017.6	207.0	002.0000	0094.3	051.9	45.70	
334.0	000.0355	0486.7	017.6	206.8	002.0000	0094.2	051.6	45.79	
335.0	000.0358	0489.4	017.7	206.7	002.0000	0094.2	051.3	45.90	
336.0	000.0363	0495.7	017.9	206.7	002.0000	0094.1	050.9	46.03	
337.0	000.0366	0503.9	018.1	206.6	002.0000	0094.1	050.5	46.17	
338.0	000.0371	0512.3	018.3	206.6	002.0000	0094.1	050.1	46.32	
339.0	000.0373	0520.6	018.6	206.6	002.0000	0094.1	049.8	46.46	
340.0	000.0378	0528.5	018.8	206.5	002.0000	0094.0	049.4	46.61	
341.0	000.0384	0535.4	019.0	206.4	002.0000	0094.0	049.0	46.75	
342.0	000.0392	0540.1	019.2	206.3	002.0000	0093.9	048.6	46.88	
343.0	000.0397	0543.0	019.4	206.1	002.0000	0093.8	048.3	46.99	
344.0	000.0405	0545.6	019.5	206.0	002.0000	0093.7	047.9	47.11	
345.0	000.0413	0549.7	019.7	205.8	002.0000	0093.5	047.5	47.23	
346.0	000.0419	0555.5	019.9	205.6	002.0000	0093.4	047.2	47.36	
347.0	000.0427	0561.1	020.1	205.5	002.0000	0093.3	046.8	47.50	
348.0	000.0432	0565.8	020.3	205.3	002.0000	0093.1	046.4	47.61	
349.0	000.0438	0570.0	020.5	205.0	002.0000	0092.9	046.1	47.72	

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
350.0	000.0447	0574.5	020.7	204.8	002.0000	0092.7	045.7	47.85
351.0	000.0455	0579.2	020.9	204.6	002.0000	0092.5	045.3	47.97
352.0	000.0467	0582.9	021.1	204.3	002.0000	0092.3	045.0	48.10
353.0	000.0478	0585.8	021.3	204.0	002.0000	0092.1	044.6	48.22
354.0	000.0487	0586.9	021.4	203.7	002.0000	0091.9	044.3	48.31
355.0	000.0496	0585.4	021.5	203.3	002.0000	0091.6	044.1	48.38
356.0	000.0508	0583.7	021.6	202.9	002.0000	0091.3	043.8	48.46
357.0	000.0520	0582.3	021.7	202.6	002.0000	0091.0	043.6	48.53
358.0	000.0529	0582.0	021.7	202.2	002.0000	0090.7	043.3	48.60
359.0	000.0539	0585.2	021.9	201.8	002.0000	0090.5	043.0	48.70
000.0	000.0551	0591.0	022.1	201.4	002.0000	0090.3	042.6	48.83
001.0	000.0567	0596.7	022.4	201.1	002.0000	0090.2	042.3	48.97
002.0	000.0586	0602.5	022.7	200.7	002.0000	0090.1	041.8	49.13
003.0	000.0603	0608.3	023.0	200.3	002.0000	0090.1	041.5	49.28
004.0	000.0623	0613.6	023.3	199.9	002.0000	0090.0	041.1	49.44
005.0	000.0640	0620.2	023.6	199.4	002.0000	0090.0	040.7	49.59
006.0	000.0660	0628.0	023.9	198.9	002.0000	0089.9	040.3	49.76
007.0	000.0681	0636.1	024.2	198.5	002.0000	0089.9	039.9	49.92
008.0	000.0699	0643.8	024.5	197.9	002.0000	0089.8	039.5	50.06
009.0	000.0720	0650.6	024.8	197.4	002.0000	0089.8	039.1	50.22
010.0	000.0738	0656.9	025.1	196.8	002.0000	0090.0	038.8	50.38
011.0	000.0768	0662.6	025.4	196.2	002.0000	0090.4	038.4	50.58
012.0	000.0801	0667.8	025.8	195.6	002.0000	0090.9	038.0	50.79
013.0	000.0832	0672.6	026.1	194.9	002.0000	0091.3	037.7	50.98
014.0	000.0863	0676.7	026.4	194.2	002.0000	0091.5	037.4	51.14
015.0	000.0899	0680.3	026.8	193.5	002.0000	0091.7	037.0	51.30
016.0	000.0932	0683.5	027.0	192.8	002.0000	0091.9	036.8	51.44
017.0	000.0965	0687.1	027.3	192.0	002.0000	0092.0	036.5	51.56
018.0	000.0998	0691.2	027.6	191.2	002.0000	0092.0	036.3	51.67
019.0	000.1037	0695.9	028.0	190.3	002.0000	0091.7	036.0	51.77
020.0	000.1072	0700.6	028.3	189.5	002.0000	0091.2	035.7	51.82
021.0	000.1121	0704.5	028.7	188.6	002.0000	0090.1	035.5	51.84
022.0	000.1175	0707.3	029.1	187.6	002.0000	0088.5	035.2	51.80
023.0	000.1226	0709.6	029.5	186.7	002.0000	0086.3	035.0	51.68
024.0	000.1283	0711.7	029.8	185.7	002.0000	0084.0	034.8	51.54
025.0	000.1337	0713.7	030.2	184.7	002.0000	0082.2	034.6	51.42
026.0	000.1391	0715.7	030.6	183.6	002.0000	0080.7	034.5	51.31
027.0	000.1452	0717.6	030.9	182.6	002.0000	0079.0	034.3	51.19
028.0	000.1509	0719.3	031.3	181.5	002.0000	0077.3	034.2	51.05
029.0	000.1572	0720.6	031.7	180.4	002.0000	0075.4	034.2	50.86
030.0	000.1631	0721.5	032.0	179.3	002.0000	0073.5	034.1	50.65
031.0	000.1702	0722.1	032.4	178.1	002.0000	0070.4	034.1	50.32
032.0	000.1775	0722.4	032.8	177.0	002.0000	0067.7	034.1	49.99
033.0	000.1843	0722.3	033.1	175.9	002.0000	0065.9	034.2	49.75
034.0	000.1919	0722.1	033.5	174.7	002.0000	0064.4	034.3	49.53
035.0	000.1996	0721.7	033.8	173.6	002.0000	0061.9	034.4	49.17
036.0	000.2075	0721.2	034.1	172.5	002.0000	0059.1	034.5	48.76
037.0	000.2155	0720.4	034.5	171.5	002.0000	0054.9	034.7	48.07
038.0	000.2230	0719.6	034.8	170.4	002.0000	0049.4	035.0	47.10
039.0	000.2313	0718.8	035.1	169.4	002.0000	0043.5	035.2	45.93
040.0	000.2398	0718.0	035.4	168.4	002.0000	0037.9	035.5	44.72

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
041.0	000.2478	0716.9	035.6	167.5	002.0000	0031.5	035.9	43.26
042.0	000.2558	0715.5	035.9	166.6	002.0000	0023.7	036.2	42.80
043.0	000.2640	0713.8	036.1	165.7	002.0000	0012.7	036.6	42.67
044.0	000.2724	0711.8	036.3	164.9	002.0000	-0003.4	037.0	42.52
045.0	000.2808	0709.8	036.5	164.1	002.0000	-0022.3	037.5	42.37
046.0	000.2894	0707.9	036.8	163.4	002.0000	-0042.8	037.9	42.21
047.0	000.2982	0706.1	037.0	162.7	002.0000	-0063.7	038.4	42.05
048.0	000.3070	0704.3	037.2	162.0	002.0000	-0084.2	038.9	41.88
049.0	000.3160	0702.4	037.4	161.3	002.0000	-0104.5	039.5	41.72
050.0	000.3251	0700.5	037.6	160.7	002.0000	-0124.5	040.0	41.54
051.0	000.3336	0698.7	037.8	160.2	002.0000	-0142.5	040.5	41.37
052.0	000.3414	0697.2	037.9	159.7	002.0000	-0159.0	041.1	41.19
053.0	000.3501	0695.8	038.1	159.1	002.0000	-0175.8	041.7	41.02
054.0	000.3580	0694.3	038.3	158.7	002.0000	-0191.0	042.3	40.84
055.0	000.3669	0692.5	038.4	158.3	002.0000	-0205.7	042.9	40.67
056.0	000.3751	0690.1	038.6	157.9	002.0000	-0218.3	043.5	40.49
057.0	000.3842	0687.3	038.7	157.6	002.0000	-0230.5	044.2	40.32
058.0	000.3926	0684.2	038.8	157.3	002.0000	-0240.8	044.8	40.15
059.0	000.4010	0681.1	038.9	157.0	002.0000	-0250.1	045.5	39.98
060.0	000.4104	0678.0	039.0	156.8	002.0000	-0259.6	046.1	39.81
061.0	000.4139	0675.0	039.0	156.7	002.0000	-0262.2	046.8	39.65
062.0	000.4182	0672.1	039.0	156.7	002.0000	-0265.1	047.5	39.50
063.0	000.4225	0669.2	039.0	156.6	002.0000	-0267.4	048.2	39.34
064.0	000.4260	0666.3	039.0	156.6	002.0000	-0268.3	048.9	39.20
065.0	000.4295	0663.4	039.0	156.6	002.0000	-0268.5	049.5	39.05
066.0	000.4339	0660.5	039.0	156.5	002.0000	-0269.1	050.2	38.90
067.0	000.4384	0657.7	039.0	156.5	002.0000	-0269.1	050.9	38.76
068.0	000.4419	0654.8	038.9	156.6	002.0000	-0267.7	051.6	38.61
069.0	000.4455	0651.8	038.9	156.6	002.0000	-0265.8	052.3	38.46
070.0	000.4500	0648.9	038.9	156.7	002.0000	-0264.2	052.9	38.31
071.0	000.4500	0646.2	038.8	156.8	002.0000	-0258.8	053.6	38.17
072.0	000.4500	0643.6	038.8	157.0	002.0000	-0253.2	054.3	38.02
073.0	000.4500	0641.1	038.7	157.1	002.0000	-0247.4	054.9	37.88

04-22-2016

Terrain Data: NGDC 30 SEC

FMOver Analysis

KWCR-FM BLED19930903KA

KCPW-FM P

Channel = 201A

Max ERP = 2 kW

RCAMSL = 1482 m

N. Lat. 41 11 17.0

W. Lng. 111 56 43.0

Protected

60 dBu

Channel = 202C3

Max ERP = 0.45 kW

RCAMSL = 2088 m

N. Lat. 40 37 53.0

W. Lng. 112 07 50.0

Interfering

54 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
134.0	002.0000	-0467.1	012.0	024.3	000.1297	0712.2	058.7	49.59	
135.0	002.0000	-0498.5	012.0	024.2	000.1293	0712.1	058.6	49.64	
136.0	002.0000	-0531.0	012.0	024.1	000.1290	0711.9	058.4	49.70	
137.0	002.0000	-0562.0	012.0	024.0	000.1285	0711.7	058.2	49.75	
138.0	002.0000	-0590.6	012.0	024.0	000.1281	0711.6	058.0	49.80	
139.0	002.0000	-0615.3	012.0	023.9	000.1276	0711.4	057.8	49.85	
140.0	002.0000	-0633.5	012.0	023.8	000.1271	0711.2	057.6	49.90	
141.0	002.0000	-0643.3	012.0	023.7	000.1265	0711.0	057.4	49.95	
142.0	002.0000	-0645.0	012.0	023.6	000.1260	0710.8	057.2	49.99	
143.0	002.0000	-0641.7	012.0	023.5	000.1254	0710.6	057.0	50.03	
144.0	002.0000	-0636.3	012.0	023.4	000.1248	0710.4	056.9	50.08	
145.0	002.0000	-0626.7	012.0	023.3	000.1242	0710.2	056.7	50.12	
146.0	002.0000	-0609.1	012.0	023.2	000.1235	0709.9	056.5	50.16	
147.0	002.0000	-0582.2	012.0	023.0	000.1229	0709.7	056.3	50.19	
148.0	002.0000	-0547.5	012.0	022.9	000.1222	0709.4	056.1	50.23	
149.0	002.0000	-0510.1	012.0	022.8	000.1216	0709.2	056.0	50.27	
150.0	002.0000	-0475.2	012.0	022.7	000.1209	0708.9	055.8	50.30	
151.0	002.0000	-0443.9	012.0	022.5	000.1203	0708.6	055.6	50.33	
152.0	002.0000	-0413.5	012.0	022.4	000.1196	0708.3	055.5	50.36	
153.0	002.0000	-0383.9	012.0	022.3	000.1189	0708.0	055.3	50.39	
154.0	002.0000	-0356.0	012.0	022.1	000.1181	0707.7	055.2	50.42	
155.0	002.0000	-0326.0	012.0	022.0	000.1174	0707.3	055.0	50.44	
156.0	002.0000	-0290.1	012.0	021.8	000.1166	0706.9	054.9	50.46	
157.0	002.0000	-0251.8	012.0	021.7	000.1157	0706.5	054.7	50.48	
158.0	002.0000	-0215.0	012.0	021.5	000.1149	0706.1	054.6	50.50	
159.0	002.0000	-0180.7	012.0	021.4	000.1140	0705.6	054.4	50.51	
160.0	002.0000	-0147.7	012.0	021.2	000.1131	0705.1	054.3	50.52	
161.0	002.0000	-0115.4	012.0	021.0	000.1122	0704.5	054.1	50.53	
162.0	002.0000	-0083.6	012.0	020.9	000.1113	0704.0	054.0	50.54	
163.0	002.0000	-0053.7	012.0	020.7	000.1105	0703.3	053.9	50.54	
164.0	002.0000	-0025.7	012.0	020.5	000.1096	0702.7	053.7	50.55	
165.0	002.0000	-0001.4	012.0	020.3	000.1087	0701.9	053.6	50.55	
166.0	002.0000	0017.1	012.0	020.1	000.1078	0701.2	053.5	50.55	

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
167.0	002.0000	0027.7	012.0	019.9	000.1070	0700.4	053.4	50.55
168.0	002.0000	0035.4	012.9	020.3	000.1085	0701.7	052.5	50.94
169.0	002.0000	0041.2	013.9	020.6	000.1102	0703.1	051.6	51.38
170.0	002.0000	0046.9	014.9	021.0	000.1119	0704.3	050.6	51.81
171.0	002.0000	0052.5	015.8	021.3	000.1135	0705.3	049.6	52.24
172.0	002.0000	0057.3	016.6	021.4	000.1145	0705.9	048.8	52.59
173.0	002.0000	0060.5	017.1	021.4	000.1143	0705.8	048.2	52.79
174.0	002.0000	0062.7	017.4	021.3	000.1135	0705.3	047.8	52.91
175.0	002.0000	0064.8	017.7	021.1	000.1126	0704.8	047.4	53.00
176.0	002.0000	0066.1	017.9	020.9	000.1113	0703.9	047.1	53.06
177.0	002.0000	0067.7	018.1	020.6	000.1102	0703.1	046.8	53.12
178.0	002.0000	0070.0	018.4	020.4	000.1091	0702.3	046.4	53.22
179.0	002.0000	0073.0	018.8	020.2	000.1082	0701.5	045.9	53.36
180.0	002.0000	0074.8	019.0	019.9	000.1069	0700.2	045.6	53.42
181.0	002.0000	0076.5	019.3	019.6	000.1058	0698.9	045.3	53.49
182.0	002.0000	0078.2	019.5	019.3	000.1047	0697.3	044.9	53.55
183.0	002.0000	0079.7	019.7	019.0	000.1035	0695.7	044.7	53.59
184.0	002.0000	0081.2	019.9	018.6	000.1021	0693.9	044.4	53.62
185.0	002.0000	0082.8	020.0	018.2	000.1006	0692.2	044.1	53.64
186.0	002.0000	0084.8	020.3	017.8	000.0993	0690.5	043.8	53.69
187.0	002.0000	0087.1	020.6	017.4	000.0980	0688.8	043.4	53.75
188.0	002.0000	0089.2	020.8	017.0	000.0966	0687.2	043.1	53.80
189.0	002.0000	0090.7	021.0	016.6	000.0951	0685.6	042.9	53.80
190.0	002.0000	0091.5	021.1	016.1	000.0935	0683.9	042.8	53.77
191.0	002.0000	0091.9	021.1	015.6	000.0920	0682.3	042.7	53.71
192.0	002.0000	0092.0	021.2	015.1	000.0904	0680.7	042.6	53.63
193.0	002.0000	0091.9	021.1	014.6	000.0886	0679.1	042.6	53.52
194.0	002.0000	0091.6	021.1	014.1	000.0869	0677.3	042.7	53.40
195.0	002.0000	0091.2	021.1	013.7	000.0852	0675.3	042.7	53.27
196.0	002.0000	0090.5	021.0	013.2	000.0837	0673.3	042.8	53.13
197.0	002.0000	0089.9	020.9	012.7	000.0822	0671.1	042.9	52.98
198.0	002.0000	0089.8	020.9	012.2	000.0808	0668.8	042.9	52.85
199.0	002.0000	0089.9	020.9	011.7	000.0792	0666.3	043.0	52.72
200.0	002.0000	0090.0	020.9	011.2	000.0775	0663.8	043.0	52.58
201.0	002.0000	0090.2	020.9	010.8	000.0760	0661.2	043.0	52.44
202.0	002.0000	0090.6	021.0	010.3	000.0746	0658.4	043.1	52.31
203.0	002.0000	0091.3	021.1	009.8	000.0734	0655.5	043.1	52.20
204.0	002.0000	0092.1	021.2	009.3	000.0725	0652.3	043.1	52.10
205.0	002.0000	0092.9	021.3	008.7	000.0715	0649.0	043.1	51.99
206.0	002.0000	0093.7	021.4	008.2	000.0704	0645.5	043.1	51.87
207.0	002.0000	0094.3	021.4	007.7	000.0694	0641.9	043.1	51.74
208.0	002.0000	0094.8	021.5	007.2	000.0685	0638.1	043.2	51.60
209.0	002.0000	0095.1	021.5	006.8	000.0676	0634.2	043.3	51.44
210.0	002.0000	0095.5	021.6	006.3	000.0666	0630.4	043.4	51.28
211.0	002.0000	0095.9	021.6	005.8	000.0656	0626.5	043.5	51.12
212.0	002.0000	0096.5	021.7	005.3	000.0646	0622.6	043.6	50.95
213.0	002.0000	0097.0	021.7	004.9	000.0637	0619.1	043.8	50.79
214.0	002.0000	0097.4	021.8	004.4	000.0629	0615.9	043.9	50.63
215.0	002.0000	0098.0	021.8	003.9	000.0621	0613.1	044.0	50.48
216.0	002.0000	0098.9	021.9	003.4	000.0611	0610.4	044.2	50.33
217.0	002.0000	0100.0	022.1	002.9	000.0602	0607.9	044.3	50.18

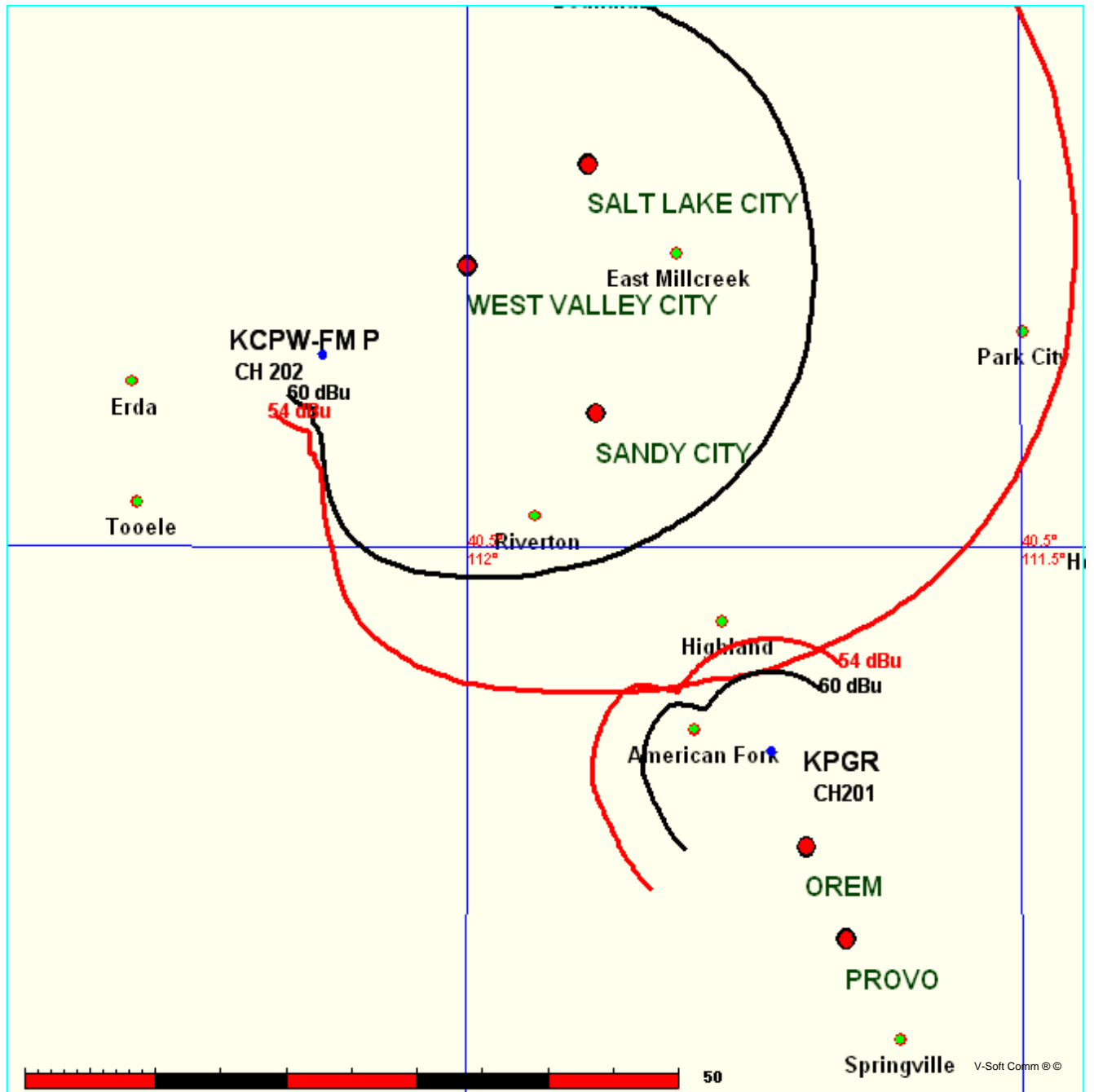
Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
218.0	002.0000	0101.3	022.2	002.4	000.0593	0604.8	044.4	50.03
219.0	002.0000	0102.9	022.4	001.9	000.0584	0601.8	044.5	49.88
220.0	002.0000	0104.6	022.6	001.3	000.0574	0598.7	044.6	49.72
221.0	002.0000	0106.4	022.7	000.8	000.0564	0595.5	044.7	49.55
222.0	002.0000	0108.2	022.9	000.3	000.0555	0592.4	044.8	49.39
223.0	002.0000	0110.0	023.1	359.7	000.0548	0589.4	044.9	49.23
224.0	002.0000	0111.8	023.3	359.2	000.0541	0586.3	045.1	49.07
225.0	002.0000	0113.6	023.4	358.7	000.0536	0583.6	045.3	48.91
226.0	002.0000	0115.5	023.6	358.2	000.0531	0582.1	045.4	48.78
227.0	002.0000	0117.3	023.8	357.7	000.0526	0581.8	045.6	48.66
228.0	002.0000	0119.1	023.9	357.2	000.0522	0582.1	045.9	48.55
229.0	002.0000	0120.6	024.1	356.7	000.0517	0582.7	046.1	48.42
230.0	002.0000	0122.2	024.2	356.3	000.0512	0583.3	046.4	48.29
231.0	002.0000	0123.6	024.3	355.9	000.0507	0583.9	046.6	48.16
232.0	002.0000	0124.9	024.4	355.5	000.0502	0584.5	046.9	48.02
233.0	002.0000	0125.9	024.5	355.1	000.0498	0585.2	047.3	47.88
234.0	002.0000	0126.9	024.6	354.8	000.0494	0585.8	047.6	47.74
235.0	002.0000	0128.0	024.6	354.4	000.0491	0586.4	047.9	47.60
236.0	002.0000	0129.4	024.8	354.1	000.0488	0586.8	048.2	47.46
237.0	002.0000	0131.1	024.9	353.7	000.0484	0587.0	048.5	47.32
238.0	002.0000	0132.9	025.0	353.3	000.0481	0586.5	048.9	47.17
239.0	002.0000	0134.9	025.2	352.9	000.0477	0585.6	049.2	47.00
240.0	002.0000	0137.0	025.4	352.5	000.0473	0584.6	049.5	46.82
241.0	002.0000	0139.1	025.5	352.2	000.0469	0583.5	049.9	46.64
242.0	002.0000	0141.3	025.7	351.8	000.0464	0582.3	050.3	46.46
243.0	002.0000	0143.3	025.9	351.5	000.0460	0581.1	050.6	46.27
244.0	002.0000	0145.3	026.0	351.2	000.0457	0579.9	051.0	46.08
245.0	002.0000	0147.1	026.2	350.9	000.0454	0578.6	051.4	45.89
246.0	002.0000	0148.7	026.3	350.6	000.0451	0577.3	051.8	45.70
247.0	002.0000	0150.2	026.4	350.3	000.0449	0576.2	052.2	45.52
248.0	002.0000	0151.5	026.5	350.1	000.0448	0575.1	052.7	45.33
249.0	002.0000	0152.7	026.6	349.9	000.0446	0574.1	053.1	45.15
250.0	002.0000	0153.8	026.7	349.7	000.0444	0573.3	053.5	44.97
251.0	002.0000	0154.7	026.7	349.6	000.0443	0572.6	054.0	44.79
252.0	002.0000	0155.5	026.8	349.4	000.0442	0572.0	054.4	44.61
253.0	002.0000	0156.3	026.9	349.3	000.0441	0571.4	054.9	44.43

KCPW-FM vs KPGR(FM)
Section 73.509 Overlap Map

FMCommander Single Allocation Study - 04-22-2016 - NGDC 30 SEC
KCPW-FM P's Overlaps (In= 12.56 km, Out= 1.8 km)

KCPW-FM P CH 202 C3 DA
Lat= 40 37 53.0, Lng= 112 07 50.0
0.45 kW 416 m HAAT, 2088 m COR
Prot.= 60 dBu, Intef.= 54 dBu

KPGR CH 201 A BLED19810914AE
Lat= 40 21 48.0, Lng= 111 43 30.0
0.115 kW -344 m HAAT, 1457 m COR
Prot.= 60 dBu, Intef.= 54 dBu



04-22-2016

Terrain Data: NGDC 30 SEC

FMOver Analysis

KCPW-FM P

KPGR BLED19810914AE

Channel = 202C3
 Max ERP = 0.45 kW
 RCAMSL = 2088 m
 N. Lat. 40 37 53.0
 W. Lng. 112 07 50.0
 Protected
 60 dBu

Channel = 201A
 Max ERP = 0.115 kW
 RCAMSL = 1457 m
 N. Lat. 40 21 48.0
 W. Lng. 111 43 30.0
 Interfering
 54 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
071.0	000.4500	0646.2	038.8	003.5	000.1150	-0876.5	042.4	28.42	
072.0	000.4500	0643.6	038.8	003.7	000.1150	-0884.0	041.7	28.61	
073.0	000.4500	0641.1	038.7	003.9	000.1150	-0891.0	041.1	28.81	
074.0	000.4500	0638.5	038.6	004.1	000.1150	-0897.9	040.4	29.01	
075.0	000.4500	0636.1	038.5	004.4	000.1150	-0904.7	039.7	29.22	
076.0	000.4500	0633.9	038.4	004.6	000.1150	-0911.4	039.1	29.43	
077.0	000.4500	0631.6	038.4	004.8	000.1150	-0918.1	038.4	29.65	
078.0	000.4500	0629.6	038.3	005.0	000.1150	-0924.9	037.8	29.87	
079.0	000.4500	0627.5	038.2	005.2	000.1150	-0931.5	037.1	30.09	
080.0	000.4500	0625.4	038.2	005.4	000.1150	-0937.6	036.5	30.32	
081.0	000.4455	0623.4	038.0	005.4	000.1150	-0938.7	035.8	30.56	
082.0	000.4419	0621.7	037.9	005.4	000.1150	-0940.5	035.1	30.81	
083.0	000.4384	0619.8	037.8	005.5	000.1150	-0941.4	034.4	31.05	
084.0	000.4339	0617.9	037.6	005.4	000.1150	-0940.6	033.8	31.30	
085.0	000.4295	0616.1	037.5	005.4	000.1150	-0939.1	033.1	31.55	
086.0	000.4260	0614.5	037.3	005.4	000.1150	-0938.4	032.4	31.81	
087.0	000.4225	0613.2	037.2	005.3	000.1150	-0937.5	031.8	32.07	
088.0	000.4182	0612.3	037.1	005.3	000.1150	-0935.3	031.1	32.35	
089.0	000.4139	0611.4	037.0	005.2	000.1150	-0932.4	030.4	32.64	
090.0	000.4104	0610.9	036.9	005.1	000.1150	-0930.5	029.8	32.96	
091.0	000.4010	0610.4	036.7	004.8	000.1150	-0919.0	029.1	33.29	
092.0	000.3926	0609.8	036.5	004.5	000.1150	-0907.9	028.5	33.64	
093.0	000.3842	0609.0	036.3	004.1	000.1150	-0895.3	027.9	33.99	
094.0	000.3751	0607.7	036.0	003.5	000.1150	-0879.4	027.2	34.36	
095.0	000.3669	0606.6	035.8	003.0	000.1150	-0861.2	026.6	34.74	
096.0	000.3580	0605.8	035.5	002.4	000.1150	-0841.0	026.0	35.12	
097.0	000.3501	0605.1	035.3	001.8	000.1150	-0822.0	025.4	35.51	
098.0	000.3414	0604.7	035.1	001.2	000.1150	-0800.1	024.8	35.90	
099.0	000.3336	0604.1	034.9	000.5	000.1150	-0777.5	024.2	36.29	
100.0	000.3251	0603.5	034.6	359.6	000.1150	-0747.6	023.7	36.68	
101.0	000.3160	0603.0	034.4	358.7	000.1150	-0708.1	023.1	37.06	
102.0	000.3070	0602.5	034.1	357.7	000.1150	-0665.4	022.6	37.44	
103.0	000.2982	0601.9	033.8	356.7	000.1150	-0619.4	022.1	37.81	
104.0	000.2894	0601.3	033.6	355.5	000.1150	-0569.9	021.7	38.17	
105.0	000.2808	0600.5	033.3	354.3	000.1150	-0509.3	021.2	38.52	
106.0	000.2724	0599.7	033.0	352.9	000.1150	-0449.0	020.8	38.85	

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
107.0	000.2640	0598.7	032.7	351.5	000.1150	-0390.4	020.4	39.16
108.0	000.2558	0597.6	032.4	350.0	000.1150	-0335.7	020.0	39.45
109.0	000.2478	0596.3	032.1	348.5	000.1150	-0279.4	019.7	39.72
110.0	000.2398	0594.8	031.8	346.8	000.1150	-0227.4	019.4	39.96
111.0	000.2313	0592.9	031.4	345.0	000.1150	-0190.4	019.1	40.16
112.0	000.2230	0590.8	031.1	343.2	000.1150	-0157.1	018.9	40.33
113.0	000.2155	0588.7	030.7	341.3	000.1150	-0138.3	018.7	40.49
114.0	000.2075	0586.7	030.4	339.4	000.1150	-0128.7	018.6	40.61
115.0	000.1996	0584.6	030.0	337.5	000.1150	-0129.7	018.5	40.71
116.0	000.1919	0582.5	029.7	335.6	000.1150	-0128.6	018.4	40.77
117.0	000.1843	0580.3	029.3	333.7	000.1150	-0116.3	018.3	40.80
118.0	000.1775	0578.1	029.0	331.8	000.1150	-0097.4	018.3	40.82
119.0	000.1702	0575.8	028.7	329.9	000.1150	-0087.7	018.4	40.79
120.0	000.1631	0573.6	028.3	328.0	000.1150	-0085.0	018.4	40.74
121.0	000.1572	0571.5	028.0	326.2	000.1150	-0087.4	018.5	40.69
122.0	000.1509	0569.8	027.7	324.4	000.1150	-0088.1	018.6	40.61
123.0	000.1452	0568.1	027.4	322.7	000.1150	-0084.6	018.7	40.52
124.0	000.1391	0566.0	027.1	321.0	000.1150	-0077.3	018.9	40.38
125.0	000.1337	0563.3	026.7	319.4	000.1150	-0070.0	019.0	40.23
126.0	000.1283	0560.1	026.4	317.8	000.1150	-0071.1	019.3	40.04
127.0	000.1226	0556.4	026.0	316.3	000.1150	-0071.7	019.6	39.80
128.0	000.1175	0552.3	025.6	314.8	000.1150	-0067.6	019.9	39.56
129.0	000.1121	0548.0	025.2	313.5	000.1150	-0062.0	020.2	39.27
130.0	000.1072	0544.0	024.9	312.2	000.1150	-0053.4	020.6	38.99
131.0	000.1037	0540.3	024.6	311.0	000.1150	-0042.4	020.9	38.77
132.0	000.0998	0536.9	024.3	309.8	000.1150	-0031.7	021.2	38.52
133.0	000.0965	0533.8	024.0	308.7	000.1150	-0022.7	021.5	38.28
134.0	000.0932	0530.9	023.7	307.7	000.1150	-0015.1	021.8	38.04
135.0	000.0899	0528.1	023.4	306.8	000.1150	-0008.5	022.2	37.79
136.0	000.0863	0525.2	023.1	305.9	000.1150	-0002.5	022.5	37.52
137.0	000.0832	0522.1	022.8	305.0	000.1150	0003.1	022.9	37.25
138.0	000.0801	0518.9	022.5	304.2	000.1150	0008.4	023.3	36.97
139.0	000.0768	0515.4	022.2	303.5	000.1150	0013.2	023.7	36.67
140.0	000.0738	0511.8	021.9	302.8	000.1150	0017.6	024.1	36.38
141.0	000.0720	0507.8	021.7	302.1	000.1150	0021.9	024.5	36.14
142.0	000.0699	0503.6	021.4	301.5	000.1150	0025.5	024.8	35.88
143.0	000.0681	0499.2	021.1	301.0	000.1150	0028.8	025.2	35.63
144.0	000.0660	0494.9	020.8	300.5	000.1150	0031.5	025.6	35.73
145.0	000.0640	0490.6	020.6	300.0	000.1150	0034.0	026.0	36.05
146.0	000.0623	0486.2	020.3	299.5	000.1150	0036.4	026.4	36.35
147.0	000.0603	0481.8	020.0	299.1	000.1150	0038.4	026.8	36.55
148.0	000.0586	0477.3	019.8	298.7	000.1150	0040.4	027.2	36.74
149.0	000.0567	0472.7	019.5	298.4	000.1150	0042.0	027.6	36.83
150.0	000.0551	0467.6	019.3	298.1	000.1150	0043.6	028.0	36.91
151.0	000.0539	0462.2	019.0	297.8	000.1150	0045.1	028.4	36.98
152.0	000.0529	0456.4	018.8	297.4	000.1150	0046.5	028.7	37.05
153.0	000.0520	0450.3	018.6	297.2	000.1150	0047.8	029.1	37.08
154.0	000.0508	0444.2	018.4	296.9	000.1150	0048.7	029.5	37.05
155.0	000.0496	0438.4	018.1	296.7	000.1150	0049.6	029.9	37.00
156.0	000.0487	0432.5	017.9	296.5	000.1150	0050.4	030.2	36.96
157.0	000.0478	0426.3	017.7	296.3	000.1150	0051.1	030.6	36.90

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
158.0	000.0467	0419.8	017.5	296.2	000.1150	0051.6	031.0	36.78
159.0	000.0455	0413.3	017.2	296.1	000.1150	0051.9	031.4	36.66
160.0	000.0447	0406.4	017.0	296.0	000.1150	0052.3	031.7	36.55
161.0	000.0438	0399.2	016.8	295.9	000.1150	0052.6	032.1	36.43
162.0	000.0432	0391.7	016.6	295.8	000.1150	0052.9	032.5	36.32
163.0	000.0427	0383.4	016.3	295.7	000.1150	0053.0	032.8	36.19
164.0	000.0419	0374.0	016.1	295.8	000.1150	0052.9	033.2	36.01
165.0	000.0413	0364.5	015.8	295.8	000.1150	0052.9	033.6	35.84
166.0	000.0405	0355.6	015.5	295.8	000.1150	0052.7	034.0	35.65
167.0	000.0397	0346.0	015.2	295.9	000.1150	0052.4	034.4	35.44
168.0	000.0392	0335.1	014.9	296.1	000.1150	0052.0	034.8	35.21
169.0	000.0384	0324.5	014.6	296.2	000.1150	0051.4	035.2	34.96
170.0	000.0378	0313.1	014.3	296.4	000.1150	0050.9	035.6	34.71
171.0	000.0373	0299.6	014.0	296.6	000.1150	0050.0	036.0	34.41
172.0	000.0371	0283.7	013.6	296.9	000.1150	0048.8	036.4	34.04
173.0	000.0366	0264.3	013.0	297.4	000.1150	0046.8	036.9	33.50
174.0	000.0363	0246.3	012.6	297.8	000.1150	0044.9	037.3	33.00
175.0	000.0358	0225.1	012.0	298.3	000.1150	0042.4	037.8	32.34
176.0	000.0355	0200.2	011.3	299.0	000.1150	0039.0	038.4	31.50
177.0	000.0353	0172.2	010.5	299.9	000.1150	0034.5	039.0	30.41
178.0	000.0348	0146.4	009.6	300.9	000.1150	0029.3	039.6	29.27
179.0	000.0345	0118.7	008.6	301.9	000.1150	0023.2	040.3	29.06
180.0	000.0340	0090.4	007.5	303.2	000.1150	0015.1	041.0	28.83
181.0	000.0338	0062.5	006.2	304.6	000.1150	0005.9	041.8	28.59
182.0	000.0335	0056.5	005.9	304.8	000.1150	0004.2	042.0	28.52
183.0	000.0333	0054.9	005.8	304.9	000.1150	0004.0	042.2	28.48
184.0	000.0330	0052.5	005.7	305.0	000.1150	0003.5	042.3	28.43
185.0	000.0328	0047.6	005.4	305.2	000.1150	0001.7	042.6	28.37
186.0	000.0326	0048.4	005.4	305.1	000.1150	0002.3	042.6	28.35
187.0	000.0323	0048.3	005.4	305.1	000.1150	0002.6	042.7	28.32
188.0	000.0321	0044.7	005.2	305.3	000.1150	0001.2	042.9	28.27
189.0	000.0318	0028.8	004.2	306.4	000.1150	-0006.3	043.4	28.12
190.0	000.0316	0005.9	004.2	306.4	000.1150	-0006.0	043.5	28.10

04-22-2016

Terrain Data: NGDC 30 SEC

FMOver Analysis

KPGR BLED19810914AE

KCPW-FM P

Channel = 201A

Max ERP = 0.115 kW

RCAMSL = 1457 m

N. Lat. 40 21 48.0

W. Lng. 111 43 30.0

Protected

60 dBu

Channel = 202C3

Max ERP = 0.45 kW

RCAMSL = 2088 m

N. Lat. 40 37 53.0

W. Lng. 112 07 50.0

Interfering

54 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
251.0	000.1150	0084.3	009.8	142.7	000.0685	0500.3	041.4	49.89	
252.0	000.1150	0084.6	009.8	142.7	000.0686	0500.6	041.3	49.97	
253.0	000.1150	0085.1	009.9	142.6	000.0687	0500.8	041.1	50.05	
254.0	000.1150	0085.4	009.9	142.6	000.0688	0501.0	040.9	50.13	
255.0	000.1150	0085.6	009.9	142.5	000.0690	0501.4	040.8	50.21	
256.0	000.1150	0085.9	009.9	142.4	000.0691	0501.7	040.6	50.30	
257.0	000.1150	0086.3	009.9	142.4	000.0692	0502.0	040.4	50.38	
258.0	000.1150	0086.6	010.0	142.3	000.0694	0502.4	040.3	50.47	
259.0	000.1150	0086.4	009.9	142.2	000.0696	0502.9	040.1	50.55	
260.0	000.1150	0086.3	009.9	142.0	000.0698	0503.4	040.0	50.64	
261.0	000.1150	0086.2	009.9	141.9	000.0700	0504.0	039.8	50.73	
262.0	000.1150	0085.9	009.9	141.8	000.0704	0504.6	039.7	50.82	
263.0	000.1150	0085.5	009.9	141.6	000.0707	0505.3	039.5	50.91	
264.0	000.1150	0085.1	009.9	141.5	000.0710	0505.9	039.4	51.00	
265.0	000.1150	0084.7	009.9	141.3	000.0714	0506.6	039.3	51.09	
266.0	000.1150	0084.3	009.8	141.1	000.0717	0507.3	039.1	51.19	
267.0	000.1150	0083.8	009.8	140.9	000.0721	0508.1	039.0	51.27	
268.0	000.1150	0083.1	009.8	140.7	000.0725	0508.9	038.9	51.36	
269.0	000.1150	0082.5	009.7	140.6	000.0728	0509.6	038.8	51.44	
270.0	000.1150	0082.0	009.7	140.4	000.0732	0510.4	038.7	51.53	
271.0	000.1150	0081.4	009.7	140.2	000.0735	0511.2	038.6	51.61	
272.0	000.1150	0080.8	009.6	140.0	000.0739	0512.0	038.5	51.69	
273.0	000.1150	0080.0	009.6	139.7	000.0746	0512.8	038.4	51.79	
274.0	000.1150	0079.3	009.5	139.5	000.0752	0513.6	038.3	51.88	
275.0	000.1150	0078.6	009.5	139.3	000.0759	0514.4	038.2	51.97	
276.0	000.1150	0077.8	009.4	139.1	000.0766	0515.2	038.1	52.06	
277.0	000.1150	0077.0	009.4	138.8	000.0773	0516.0	038.0	52.15	
278.0	000.1150	0076.2	009.4	138.6	000.0781	0516.8	038.0	52.24	
279.0	000.1150	0075.3	009.3	138.4	000.0789	0517.6	037.9	52.33	
280.0	000.1150	0074.4	009.2	138.1	000.0797	0518.4	037.8	52.41	
281.0	000.1150	0073.6	009.2	137.9	000.0805	0519.3	037.8	52.50	
282.0	000.1150	0072.7	009.1	137.6	000.0812	0520.1	037.7	52.57	
283.0	000.1150	0071.8	009.1	137.4	000.0820	0520.9	037.7	52.65	

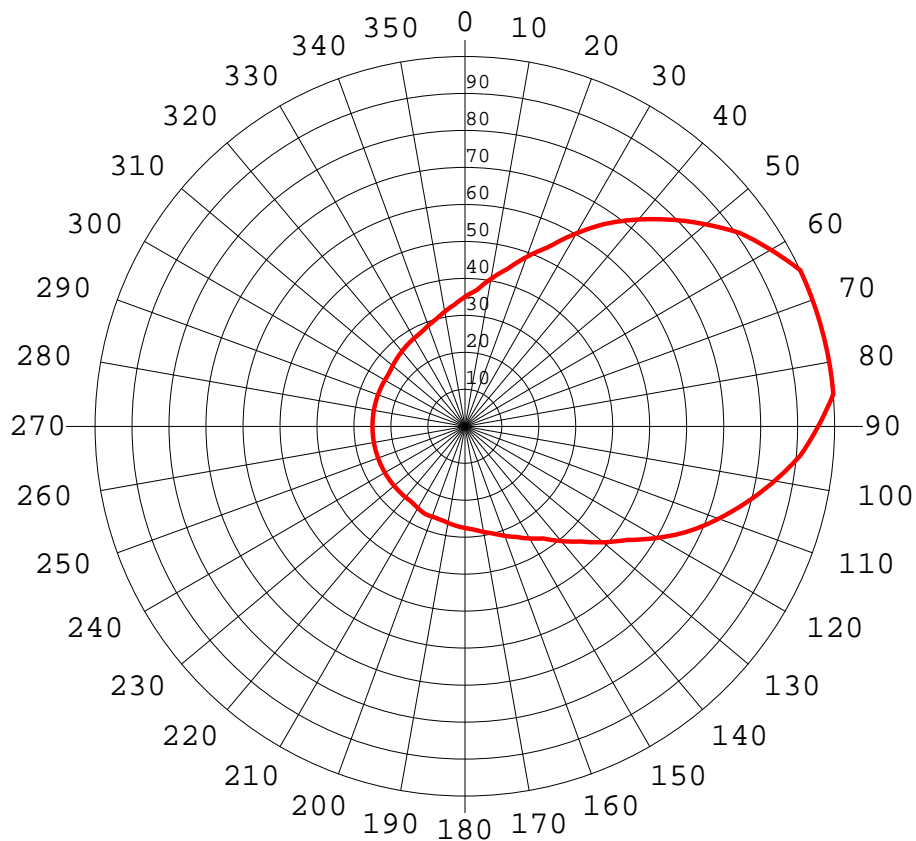
Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
284.0	000.1150	0070.9	009.0	137.1	000.0828	0521.7	037.6	52.72
285.0	000.1150	0069.8	009.0	136.9	000.0836	0522.5	037.6	52.79
286.0	000.1150	0068.8	008.9	136.6	000.0844	0523.3	037.6	52.86
287.0	000.1150	0067.8	008.8	136.4	000.0851	0524.1	037.6	52.92
288.0	000.1150	0066.8	008.8	136.1	000.0859	0524.9	037.6	52.98
289.0	000.1150	0065.8	008.7	135.9	000.0868	0525.6	037.5	53.05
290.0	000.1150	0064.7	008.6	135.6	000.0877	0526.3	037.5	53.11
291.0	000.1150	0063.5	008.5	135.4	000.0886	0527.1	037.6	53.16
292.0	000.1150	0062.0	008.4	135.1	000.0896	0527.8	037.6	53.21
293.0	000.1150	0060.2	008.3	134.8	000.0905	0528.6	037.6	53.25
294.0	000.1150	0057.9	008.2	134.5	000.0915	0529.4	037.7	53.26
295.0	000.1150	0055.3	007.9	134.2	000.0925	0530.3	037.9	53.26
296.0	000.1150	0052.2	007.7	133.9	000.0935	0531.2	038.1	53.25
297.0	000.1150	0048.4	007.4	133.6	000.0946	0532.2	038.3	53.20
298.0	000.1150	0044.0	007.0	133.2	000.0957	0533.1	038.7	53.13
299.0	000.1150	0039.0	006.6	132.9	000.0968	0534.1	039.0	53.05
300.0	000.1150	0033.9	006.2	132.6	000.0978	0535.0	039.4	52.94
301.0	000.1150	0028.6	005.8	132.3	000.0987	0535.8	039.7	52.87
302.0	000.1150	0022.8	005.8	132.2	000.0991	0536.3	039.7	52.91
303.0	000.1150	0016.5	005.8	132.1	000.0996	0536.7	039.7	52.95
304.0	000.1150	0009.8	005.8	131.9	000.1002	0537.2	039.7	52.99
305.0	000.1150	0003.1	005.8	131.8	000.1007	0537.7	039.7	53.03
306.0	000.1150	-0003.5	005.8	131.6	000.1013	0538.2	039.7	53.06
307.0	000.1150	-0010.3	005.8	131.5	000.1019	0538.6	039.6	53.10
308.0	000.1150	-0017.1	005.8	131.3	000.1024	0539.1	039.6	53.14
309.0	000.1150	-0024.7	005.8	131.2	000.1030	0539.6	039.6	53.17
310.0	000.1150	-0033.2	005.8	131.0	000.1036	0540.2	039.6	53.21
311.0	000.1150	-0042.7	005.8	130.9	000.1041	0540.7	039.6	53.24
312.0	000.1150	-0051.9	005.8	130.7	000.1046	0541.2	039.6	53.27
313.0	000.1150	-0059.4	005.8	130.6	000.1051	0541.7	039.6	53.30
314.0	000.1150	-0064.5	005.8	130.4	000.1056	0542.3	039.6	53.33
315.0	000.1150	-0068.2	005.8	130.3	000.1061	0542.8	039.6	53.36
316.0	000.1150	-0071.1	005.8	130.1	000.1066	0543.4	039.7	53.39
317.0	000.1150	-0072.1	005.8	130.0	000.1072	0544.0	039.7	53.41
318.0	000.1150	-0070.7	005.8	129.9	000.1079	0544.5	039.7	53.45
319.0	000.1150	-0069.5	005.8	129.7	000.1086	0545.1	039.7	53.48
320.0	000.1150	-0072.0	005.8	129.6	000.1093	0545.7	039.7	53.51
321.0	000.1150	-0077.3	005.8	129.4	000.1100	0546.3	039.7	53.54
322.0	000.1150	-0082.1	005.8	129.3	000.1107	0546.9	039.8	53.57
323.0	000.1150	-0085.4	005.8	129.1	000.1114	0547.5	039.8	53.60
324.0	000.1150	-0087.5	005.8	129.0	000.1121	0548.1	039.8	53.63
325.0	000.1150	-0088.4	005.8	128.8	000.1129	0548.7	039.8	53.66
326.0	000.1150	-0087.7	005.8	128.7	000.1136	0549.3	039.9	53.69
327.0	000.1150	-0086.0	005.8	128.6	000.1144	0549.9	039.9	53.72
328.0	000.1150	-0085.0	005.8	128.4	000.1151	0550.5	039.9	53.74
329.0	000.1150	-0085.8	005.8	128.3	000.1159	0551.1	040.0	53.77
330.0	000.1150	-0088.1	005.8	128.2	000.1166	0551.6	040.0	53.79
331.0	000.1150	-0092.2	005.8	128.0	000.1174	0552.2	040.0	53.81
332.0	000.1150	-0099.4	005.8	127.9	000.1181	0552.8	040.1	53.83
333.0	000.1150	-0109.5	005.8	127.8	000.1188	0553.3	040.1	53.85
334.0	000.1150	-0119.3	005.8	127.6	000.1194	0553.9	040.2	53.87

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
335.0	000.1150	-0126.1	005.8	127.5	000.1201	0554.4	040.2	53.88
336.0	000.1150	-0129.7	005.8	127.4	000.1207	0554.9	040.3	53.89
337.0	000.1150	-0130.2	005.8	127.2	000.1214	0555.4	040.3	53.91
338.0	000.1150	-0129.0	005.8	127.1	000.1220	0555.9	040.4	53.92
339.0	000.1150	-0128.3	005.8	127.0	000.1227	0556.4	040.4	53.93
340.0	000.1150	-0130.4	005.8	126.9	000.1234	0556.9	040.5	53.94
341.0	000.1150	-0135.9	005.8	126.7	000.1241	0557.3	040.5	53.95
342.0	000.1150	-0143.8	005.8	126.6	000.1247	0557.8	040.6	53.96
343.0	000.1150	-0154.9	005.8	126.5	000.1254	0558.2	040.6	53.96
344.0	000.1150	-0170.9	005.8	126.4	000.1261	0558.6	040.7	53.97
345.0	000.1150	-0190.4	005.8	126.3	000.1267	0559.0	040.8	53.97
346.0	000.1150	-0209.8	005.8	126.2	000.1273	0559.4	040.8	53.98
347.0	000.1150	-0232.7	005.8	126.1	000.1280	0559.8	040.9	53.98
348.0	000.1150	-0263.6	005.8	126.0	000.1286	0560.2	041.0	53.98
349.0	000.1150	-0299.0	005.8	125.8	000.1291	0560.6	041.0	53.98
350.0	000.1150	-0334.4	005.8	125.7	000.1297	0560.9	041.1	53.97
351.0	000.1150	-0370.6	005.8	125.6	000.1302	0561.3	041.2	53.97
352.0	000.1150	-0408.8	005.8	125.5	000.1307	0561.6	041.2	53.96
353.0	000.1150	-0451.5	005.8	125.4	000.1313	0561.9	041.3	53.95
354.0	000.1150	-0496.7	005.8	125.4	000.1318	0562.2	041.4	53.95
355.0	000.1150	-0545.2	005.8	125.3	000.1323	0562.5	041.5	53.94
356.0	000.1150	-0591.6	005.8	125.2	000.1327	0562.8	041.6	53.93
357.0	000.1150	-0633.5	005.8	125.1	000.1332	0563.1	041.6	53.92
358.0	000.1150	-0676.9	005.8	125.0	000.1337	0563.4	041.7	53.90
359.0	000.1150	-0719.8	005.8	124.9	000.1341	0563.6	041.8	53.89
000.0	000.1150	-0762.6	005.8	124.8	000.1346	0563.9	041.9	53.87
001.0	000.1150	-0794.8	005.8	124.8	000.1350	0564.1	042.0	53.86
002.0	000.1150	-0826.9	005.8	124.7	000.1354	0564.3	042.1	53.84
003.0	000.1150	-0860.1	005.8	124.6	000.1358	0564.5	042.1	53.83
004.0	000.1150	-0893.2	005.8	124.5	000.1362	0564.7	042.2	53.81
005.0	000.1150	-0925.4	005.8	124.5	000.1366	0564.9	042.3	53.79
006.0	000.1150	-0960.0	005.8	124.4	000.1370	0565.1	042.4	53.77
007.0	000.1150	-0991.6	005.8	124.3	000.1373	0565.2	042.5	53.75
008.0	000.1150	-1015.4	005.8	124.3	000.1377	0565.4	042.6	53.72
009.0	000.1150	-1032.4	005.8	124.2	000.1380	0565.5	042.7	53.70
010.0	000.1150	-1038.9	005.8	124.1	000.1383	0565.7	042.8	53.68

Exhibit 5

Proposed Directional Pattern Azimuth Tabulations

KCPW-FM Amended Azimuth Pattern



Azi	Rel	dBk	kW	dB	Azi	Rel	dBk	kW	dB
0	1.000	-3.47	0.450	0.00	180	0.250	-15.51	0.028	-12.04
10	1.000	-3.47	0.450	0.00	190	0.250	-15.51	0.028	-12.04
20	0.910	-4.29	0.373	-0.82	200	0.250	-15.51	0.028	-12.04
30	0.790	-5.52	0.281	-2.05	210	0.250	-15.51	0.028	-12.04
40	0.670	-6.95	0.202	-3.48	220	0.250	-15.51	0.028	-12.04
50	0.535	-8.90	0.129	-5.43	230	0.250	-15.51	0.028	-12.04
60	0.440	-10.60	0.087	-7.13	240	0.260	-15.17	0.030	-11.70
70	0.370	-12.10	0.062	-8.64	250	0.270	-14.84	0.033	-11.37
80	0.330	-13.10	0.049	-9.63	260	0.280	-14.52	0.035	-11.06
90	0.300	-13.93	0.040	-10.46	270	0.300	-13.93	0.040	-10.46
100	0.280	-14.52	0.035	-11.06	280	0.330	-13.10	0.049	-9.63
110	0.270	-14.84	0.033	-11.37	290	0.370	-12.10	0.062	-8.64
120	0.260	-15.17	0.030	-11.70	300	0.440	-10.60	0.087	-7.13
130	0.260	-15.17	0.030	-11.70	310	0.535	-8.90	0.129	-5.43
140	0.250	-15.51	0.028	-12.04	320	0.670	-6.95	0.202	-3.48
150	0.250	-15.51	0.028	-12.04	330	0.790	-5.52	0.281	-2.05
160	0.250	-15.51	0.028	-12.04	340	0.910	-4.29	0.373	-0.82
170	0.250	-15.51	0.028	-12.04	350	1.000	-3.47	0.450	0.00

Rotation Angle = 75