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401 Main St, Suite 213, Cedar Falls, Iowa 50613

Allocation Map, KFSC
Spokane Public Radio, Inc.

REFERENCE
47 48 48.0 N.
117 30 23.0 W.

CH# 220C3 - 91.9 MHz, Pwr= 2.2 kW, HAAT= 334.8 M, COR= 958.4 M
Average Protected F(50-50)= 39.22 km
Omni-directional

DISPLAY DATES
DATA 10-10-09
SEARCH 10-10-09

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*	
220A KSFC Spokane		LIC _CX WA		0.0 0.0	0.0 BMLD20090112AVK	47 48 48.0 117 30 23.0	0.450 348	77.9 972	27.0 Spokane Public Radio, Inc.	-116.0*	-125.1*	**
220A KSFC Spokane		CP _CX WA		0.0 0.0	0.0 BPED20090121AIO	47 48 48.0 117 30 23.0	0.550 330	79.2 958	27.7 Spokane Public Radio, Inc.	-117.2*	-125.8*	**
06-2C KHQ-TV Spokane		LI _HY WA		148.6 328.8	30.3 BMLCT19860805KF	47 34 52.0 117 17 47.0	87.100 653	9.2 1373	132.9 Khq, Incorporated	153.5R	-111.9M	@
221C3 KXJO^ St. Maries		RSV _ ID		128.1 308.8	89.3	47 18 54.0 116 34 30.0	25.000 100	83.5 1016	56.9 Spokane Public Radio, Inc.	-40.1<	-32.0<	***
221C3 KXJO St. Maries		CP NHX ID		129.4 310.1	88.6 BNPH20041230ADB	47 18 15.0 116 36 01.0	25.000 100	86.2 1005	58.9 Spokane Public Radio, Inc.	-38.8<	-32.3<	***
219C1 KRFA-FM Moscow		LIC _VX ID		162.0 342.4	132.2 BLED20090312ABT	46 40 54.0 116 58 13.0	28.000 282	88.2 1128	60.3 Washington State University	1.3	7.9	
221A KCRK-FM« Colville		LIC _C_ WA		340.4 160.1	90.0 BLH20050620ADF	48 34 30.0 117 55 00.0	5.400 105	19.3 881	12.9 North Country Broadcasting	88.5R	1.5M	
221A KXJO St. Maries		CP N_ ID		126.8 307.5	88.1	47 20 08.4 116 34 18.2	0.200 7	19.3 926	12.9 User	24.5	8.5	****
218A KUBS Newport		LIC _HX WA		37.7 218.0	51.4 BLED20080319ABC	48 10 42.0 117 04 59.0	0.150 224	0.9 1032	20.7 Newport Consolidated School	12.3	27.8	
220C2 KPBW Brewster		CP _CX WA		278.6 96.8	186.9 BNPED20071019AEH	48 02 14.0 119 59 07.0	1.000 755	130.1 1539	55.5 Spokane Public Radio, Inc.	14.2	24.0	
274C3 VA8885« Chewelah		VAC _N WA		319.3 139.0	48.9	48 08 45.0 117 56 09.0	25.000 100	19.3 1017	12.9 13.5R		35.4M	
221A KIBX« Bonners Ferry		LIC _C_ ID		45.8 226.7	128.4 BLED20000908AAJ	48 36 37.0 116 15 24.0	0.074 838	19.3 1873	12.9 Spokane Public Radio, Inc.	88.5R	39.9M	

Terrain database is FCC NGDC 30 Sec, R= 73.215 qualifying spacings or FCC minimum Spacings in KM, M= Margin in KM
In & Out distances between contours are shown at closest points. Reference zone = 2, 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.

"«" = Station meets FCC minimum distance spacing for its class.

^ = Power and antenna height 'Max classed' as per Sec 73.215 protection requirements

Reference station has protected zone issue: Canada

***** Applicant owns KXJO and will downgrade to class A under a simultaneously submitted application.

***** Applicant is requesting 73.215 processing for KXJO in a simultaneous filing.

"@" KHQ-TV no longer occupies channel six - See channel-six TV interference study attached.

HOW TO READ THE FM COMPUTER PRINT-OUT

Full Service Stations

The computer printout should be self-explanatory for the most part. The parameters of the station being checked, (reference station) are printed in the heading. Contour distances are in kilometers and are predicted using the Commission's TVFMINT FORTRAN subroutine. When interference contour distances are less than 16 kilometers the F(50-50) tables are used. If signal contour distances are less than 1.6 km the free-space equation is used.

The column listed "IN " is the difference in kilometers between of the reference station's protected contour and the data file station's interference contour at the closest point between the contours. (All distances are derived by the method detailed in Sec. 73.208 of the Rules and Regulations as amended in Docket 80-90.) Therefore, "IN" column is a measure of incoming interference. Negative distances in this column indicate the presence of contour overlap. Listed antenna heights and power are those given in the FCC database. The column labeled "OUT " shows the greatest distance in kilometers of overlap or smallest of clearance between the reference station's interference contour and the database station's protected contour. Negative distance figures in this column indicate outgoing contour overlap.

Under the "AZI" column, the first row of numbers indicate the True North bearings from the reference station toward the database stations, while the numbers in the second row indicate the reverse bearings from the database stations to the reference station.

The columns labeled "INT" and "PRO" contain the distance in kilometers of the appropriate interference contour and the protected contour of a data base station.

For I.F. relationships, some channel-six TV relationships and relationships with commercial channel stations providing clearance the minimum spacings values the "IN" and "OUT" columns can change their significance. The letter "R" stands for the minimum **required** distance in kilometers, while the letter "M" in the next column follows the **available clear space** (or lack of it) in kilometers. Minimum separation distances when displayed are taken from Sec 73.207 of the rules as amended. Canadian and Mexican separation distances, U/D ratios and protected contour values are from the US/Mexican Working Agreement and the US/Canada Working Agreement".

The call letters of stations meeting the minimum separation distances under the rules will be flagged by the characters "<<" appended to the right-hand side of the call sign. The "^" character appended to the call sign means the station has been "max-classed" according to the provisions of section 73.525 of the Rules.

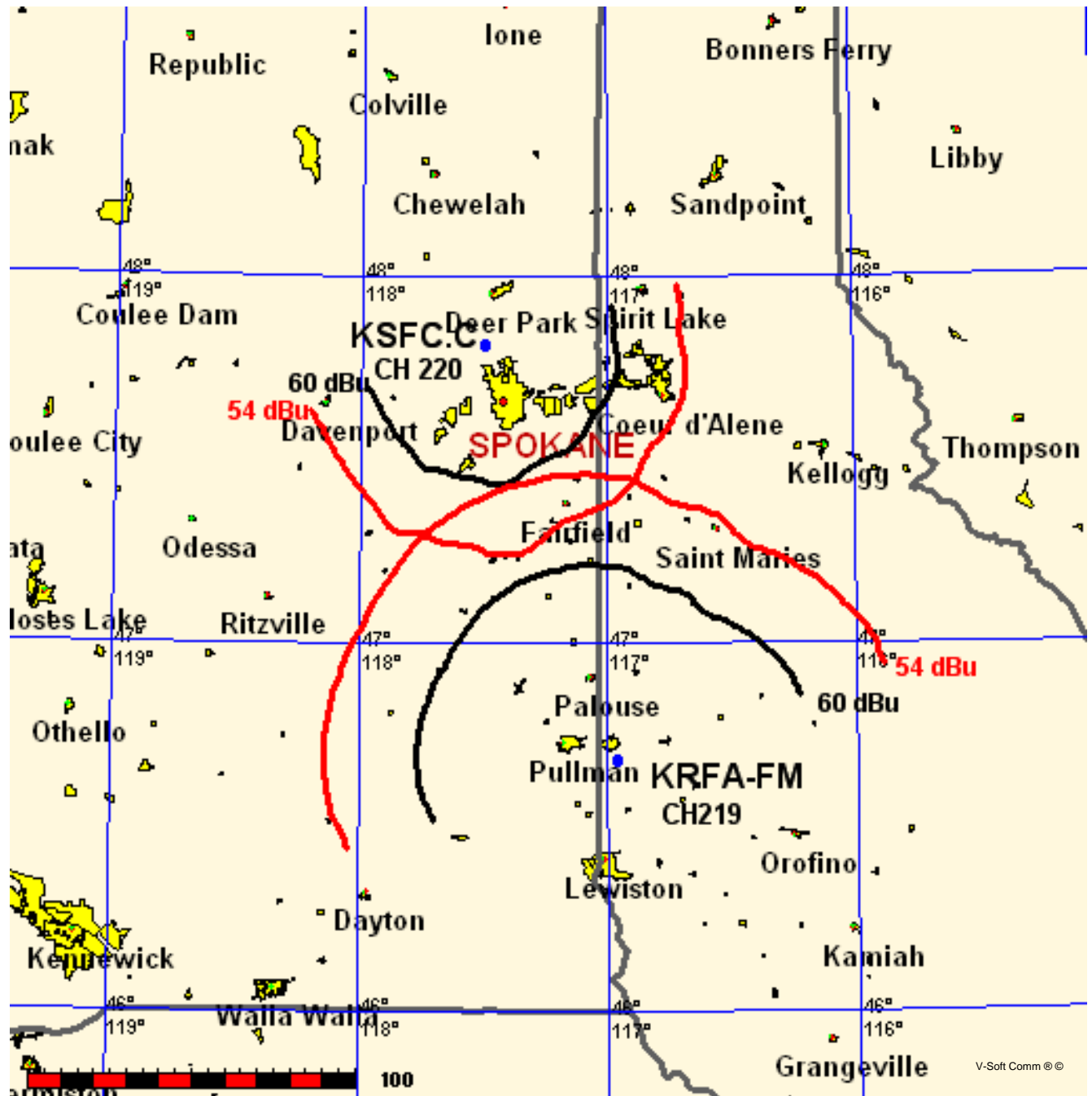
The first three letters of the "TYPE" column identify the current FCC status of the stations. The fourth letter will be a "D" if the facility is directional. "Z" indicates a 73.215 directional. An "N" indicates it is a 73.215 station that operates with an omni-directional antenna. The fifth letter will be an E, H or V depending on the type of antenna polarization. The sixth letter will be a "Y" if the antenna uses beam tilt or an "X" if the commission is not sure, otherwise it will be an "N" or left blank.

Allocation Map, KFSC
Spokane Public Radio, Inc.

FMCommander Single Allocation Study - 10-10-2009 - FCC NGDC 30 Sec
KSFC.C's Overlaps (In= 1.34 km, Out= 7.94 km)

KSFC.C CH 220 C3
Lat= 47 48 48.0, Lng= 117 30 23.0
2.2 kW 334.8 M HAAT, 958.4 M COR
Prot.= 60 dBu, Intef.= 54 dBu

KRFA-FM CH 219 C1 BLED20090312ABT
Lat= 46 40 54.0, Lng= 116 58 13.0
28.0 kW 282 M HAAT, 1128 M COR
Prot.= 60 dBu, Intef.= 54 dBu



10-10-2009

FCC NGDC 30 Sec Terrain Data

FMOver Analysis

KSFC.C

Channel = 220C3

Max ERP = 2.2 kW

RCAMSL = 958.42 M

N. Lat. 47 48 48.0

W. Lng. 117 30 23.0

Protected

60 dBu

KRFA-FM BLED20090312ABT

Channel = 219C1

Max ERP = 28 kW

RCAMSL = 1128 M

N. Lat. 46 40 54.0

W. Lng. 116 58 13.0

Interfering

54 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
102.0	002.2000	0376.4	041.3	359.9	028.0000	0283.9	117.2	44.84	
103.0	002.2000	0378.3	041.4	359.9	028.0000	0283.9	116.5	45.01	
104.0	002.2000	0379.7	041.5	359.8	028.0000	0283.9	115.8	45.17	
105.0	002.2000	0379.7	041.5	359.7	028.0000	0283.9	115.1	45.34	
106.0	002.2000	0378.1	041.4	359.6	028.0000	0283.8	114.4	45.49	
107.0	002.2000	0375.4	041.3	359.4	028.0000	0283.8	113.8	45.65	
108.0	002.2000	0372.5	041.1	359.2	028.0000	0283.8	113.1	45.81	
109.0	002.2000	0370.1	041.0	359.1	028.0000	0283.7	112.5	45.96	
110.0	002.2000	0368.8	041.0	358.9	028.0000	0283.7	111.8	46.13	
111.0	002.2000	0368.1	040.9	358.8	028.0000	0283.7	111.2	46.29	
112.0	002.2000	0367.3	040.9	358.6	028.0000	0283.8	110.5	46.46	
113.0	002.2000	0366.3	040.8	358.4	028.0000	0284.1	109.9	46.64	
114.0	002.2000	0364.8	040.8	358.2	028.0000	0284.3	109.3	46.81	
115.0	002.2000	0362.6	040.7	358.0	028.0000	0284.6	108.7	46.98	
116.0	002.2000	0359.8	040.5	357.8	028.0000	0284.9	108.1	47.15	
117.0	002.2000	0356.1	040.3	357.5	028.0000	0285.2	107.6	47.30	
118.0	002.2000	0352.0	040.1	357.2	028.0000	0285.5	107.1	47.46	
119.0	002.2000	0348.4	039.9	357.0	028.0000	0285.9	106.6	47.61	
120.0	002.2000	0345.7	039.8	356.7	028.0000	0286.2	106.1	47.77	
121.0	002.2000	0344.3	039.7	356.5	028.0000	0286.5	105.6	47.93	
122.0	002.2000	0343.8	039.7	356.2	028.0000	0287.0	105.0	48.11	
123.0	002.2000	0343.8	039.7	356.0	028.0000	0287.7	104.5	48.30	
124.0	002.2000	0344.1	039.7	355.8	028.0000	0288.6	103.9	48.49	
125.0	002.2000	0345.1	039.8	355.6	028.0000	0289.6	103.3	48.70	
126.0	002.2000	0347.2	039.9	355.4	028.0000	0290.5	102.7	48.91	
127.0	002.2000	0350.0	040.0	355.2	028.0000	0291.5	102.1	49.13	
128.0	002.2000	0353.4	040.2	355.0	028.0000	0292.4	101.5	49.35	
129.0	002.2000	0356.5	040.4	354.8	028.0000	0293.3	100.8	49.57	
130.0	002.2000	0359.1	040.5	354.5	028.0000	0294.4	100.3	49.79	
131.0	002.2000	0361.3	040.6	354.3	028.0000	0295.6	099.7	50.01	
132.0	002.2000	0363.3	040.7	354.0	028.0000	0296.8	099.1	50.22	
133.0	002.2000	0365.1	040.8	353.8	028.0000	0297.8	098.6	50.41	
134.0	002.2000	0366.5	040.9	353.5	028.0000	0298.6	098.1	50.60	
135.0	002.2000	0367.8	040.9	353.2	028.0000	0299.1	097.6	50.77	
136.0	002.2000	0368.5	040.9	352.8	028.0000	0299.2	097.1	50.92	
137.0	002.2000	0368.6	041.0	352.5	028.0000	0299.2	096.7	51.05	
138.0	002.2000	0368.1	040.9	352.2	028.0000	0299.1	096.3	51.17	

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
139.0	002.2000	0367.0	040.9	351.8	028.0000	0299.0	096.0	51.27
140.0	002.2000	0365.3	040.8	351.4	028.0000	0299.0	095.7	51.37
141.0	002.2000	0363.2	040.7	351.0	028.0000	0299.6	095.4	51.47
142.0	002.2000	0360.5	040.6	350.6	028.0000	0300.7	095.2	51.58
143.0	002.2000	0357.4	040.4	350.2	028.0000	0302.2	095.0	51.69
144.0	002.2000	0354.1	040.2	349.8	028.0000	0303.7	094.8	51.78
145.0	002.2000	0351.1	040.1	349.3	028.0000	0305.0	094.6	51.87
146.0	002.2000	0348.5	039.9	348.9	028.0000	0306.0	094.5	51.96
147.0	002.2000	0346.4	039.8	348.5	028.0000	0306.9	094.3	52.03
148.0	002.2000	0344.5	039.7	348.1	028.0000	0307.6	094.2	52.10
149.0	002.2000	0342.6	039.6	347.7	028.0000	0308.3	094.0	52.17
150.0	002.2000	0340.4	039.5	347.3	028.0000	0309.0	093.9	52.22
151.0	002.2000	0338.8	039.4	346.8	028.0000	0309.7	093.8	52.28
152.0	002.2000	0337.6	039.4	346.4	028.0000	0310.1	093.7	52.33
153.0	002.2000	0336.5	039.3	346.0	028.0000	0310.1	093.6	52.36
154.0	002.2000	0335.3	039.2	345.6	028.0000	0309.9	093.5	52.38
155.0	002.2000	0334.5	039.2	345.2	028.0000	0309.7	093.4	52.40
156.0	002.2000	0334.9	039.2	344.8	028.0000	0309.4	093.3	52.43
157.0	002.2000	0336.3	039.3	344.4	028.0000	0309.0	093.1	52.47
158.0	002.2000	0338.7	039.4	344.0	028.0000	0308.7	092.9	52.53
159.0	002.2000	0342.2	039.6	343.6	028.0000	0308.4	092.7	52.60
160.0	002.2000	0346.5	039.8	343.1	028.0000	0308.3	092.4	52.68
161.0	002.2000	0351.0	040.1	342.7	028.0000	0308.5	092.1	52.76
162.0	002.2000	0356.4	040.4	342.3	028.0000	0308.8	091.9	52.86
163.0	002.2000	0363.0	040.7	341.8	028.0000	0309.4	091.5	52.98
164.0	002.2000	0369.6	041.0	341.4	028.0000	0310.2	091.2	53.10
165.0	002.2000	0375.9	041.3	340.9	028.0000	0311.3	091.0	53.22
166.0	002.2000	0382.4	041.6	340.5	028.0000	0312.7	090.8	53.33
167.0	002.2000	0388.5	041.9	340.0	028.0000	0314.0	090.6	53.43
168.0	002.2000	0393.4	042.1	339.5	028.0000	0315.4	090.4	53.51
169.0	002.2000	0397.2	042.3	339.0	028.0000	0316.5	090.4	53.56
170.0	002.2000	0399.2	042.4	338.6	028.0000	0317.4	090.4	53.58
171.0	002.2000	0400.2	042.4	338.1	028.0000	0318.2	090.6	53.57
172.0	002.2000	0398.9	042.3	337.7	028.0000	0318.9	090.8	53.52
173.0	002.2000	0396.7	042.2	337.3	028.0000	0319.6	091.1	53.45
174.0	002.2000	0394.4	042.1	336.8	028.0000	0320.4	091.4	53.37
175.0	002.2000	0393.8	042.1	336.4	028.0000	0321.2	091.6	53.32
176.0	002.2000	0393.0	042.1	336.0	028.0000	0321.9	091.9	53.25
177.0	002.2000	0392.1	042.0	335.6	028.0000	0322.5	092.2	53.18
178.0	002.2000	0390.0	041.9	335.2	028.0000	0323.1	092.6	53.08
179.0	002.2000	0383.7	041.7	334.8	028.0000	0323.5	093.1	52.92
180.0	002.2000	0377.4	041.4	334.5	028.0000	0323.9	093.7	52.76
181.0	002.2000	0371.7	041.1	334.2	028.0000	0324.2	094.3	52.59
182.0	002.2000	0366.4	040.9	333.9	028.0000	0324.4	094.8	52.43
183.0	002.2000	0361.6	040.6	333.6	028.0000	0324.7	095.4	52.27
184.0	002.2000	0358.7	040.5	333.3	028.0000	0324.9	095.8	52.13
185.0	002.2000	0358.4	040.5	332.9	028.0000	0325.2	096.2	52.02
186.0	002.2000	0357.9	040.4	332.6	028.0000	0325.4	096.6	51.90
187.0	002.2000	0357.5	040.4	332.3	028.0000	0325.7	097.0	51.78
188.0	002.2000	0358.4	040.5	331.9	028.0000	0326.0	097.4	51.68
189.0	002.2000	0359.5	040.5	331.6	028.0000	0326.3	097.8	51.57

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
190.0	002.2000	0360.4	040.6	331.2	028.0000	0326.6	098.2	51.45
191.0	002.2000	0361.1	040.6	330.9	028.0000	0326.9	098.6	51.33
192.0	002.2000	0361.4	040.6	330.6	028.0000	0327.2	099.1	51.20
193.0	002.2000	0361.4	040.6	330.3	028.0000	0327.5	099.5	51.07
194.0	002.2000	0360.2	040.5	330.0	028.0000	0327.7	100.1	50.91
195.0	002.2000	0357.8	040.4	329.8	028.0000	0327.9	100.7	50.74
196.0	002.2000	0355.2	040.3	329.6	028.0000	0328.0	101.3	50.56
197.0	002.2000	0353.2	040.2	329.3	028.0000	0328.0	101.8	50.38
198.0	002.2000	0352.2	040.1	329.1	028.0000	0328.1	102.4	50.21
199.0	002.2000	0352.7	040.2	328.9	028.0000	0328.0	102.9	50.05
200.0	002.2000	0355.1	040.3	328.6	028.0000	0327.9	103.4	49.90
201.0	002.2000	0359.4	040.5	328.2	028.0000	0327.8	103.8	49.77
202.0	002.2000	0365.4	040.8	327.9	028.0000	0327.6	104.2	49.64
203.0	002.2000	0371.9	041.1	327.5	028.0000	0327.4	104.6	49.51
204.0	002.2000	0377.3	041.4	327.2	028.0000	0327.1	105.1	49.36
205.0	002.2000	0380.4	041.5	326.9	028.0000	0327.0	105.6	49.20
206.0	002.2000	0380.8	041.5	326.7	028.0000	0326.9	106.2	49.01
207.0	002.2000	0378.3	041.4	326.6	028.0000	0326.8	106.9	48.81
208.0	002.2000	0373.7	041.2	326.5	028.0000	0326.8	107.6	48.59
209.0	002.2000	0368.0	040.9	326.4	028.0000	0326.7	108.4	48.37
210.0	002.2000	0362.8	040.7	326.4	028.0000	0326.7	109.1	48.16
211.0	002.2000	0357.8	040.4	326.4	028.0000	0326.7	109.9	47.95
212.0	002.2000	0352.3	040.1	326.3	028.0000	0326.7	110.6	47.75
213.0	002.2000	0346.1	039.8	326.4	028.0000	0326.7	111.4	47.54
214.0	002.2000	0339.9	039.5	326.4	028.0000	0326.7	112.2	47.34
215.0	002.2000	0334.7	039.2	326.4	028.0000	0326.7	112.9	47.15
216.0	002.2000	0331.1	039.0	326.4	028.0000	0326.7	113.6	46.97
217.0	002.2000	0329.1	038.9	326.3	028.0000	0326.7	114.3	46.80
218.0	002.2000	0327.4	038.8	326.2	028.0000	0326.7	115.0	46.63
219.0	002.2000	0325.9	038.7	326.2	028.0000	0326.6	115.6	46.47
220.0	002.2000	0324.9	038.7	326.1	028.0000	0326.6	116.3	46.31
221.0	002.2000	0323.9	038.6	326.1	028.0000	0326.6	116.9	46.15
222.0	002.2000	0298.7	037.3	326.6	028.0000	0326.8	117.9	45.92

10-10-2009 FCC NGDC 30 Sec Terrain Data

KRFA-FM BLED20090312ABT

Channel = 219C1

Max ERP = 28 kW

RCAMSL = 1128 M

N. Lat. 46 40 54.0

W. Lng. 116 58 13.0

Protected

60 dBu

KSFC.C

Channel = 220C3

Max ERP = 2.2 kW

RCAMSL = 958.42 M

N. Lat. 47 48 48.0

W. Lng. 117 30 23.0

Interfering

54 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
282.0	028.0000	0326.4	061.5	189.9	002.2000	0360.4	114.7	37.06	
283.0	028.0000	0326.0	061.5	189.9	002.2000	0360.3	113.6	37.33	
284.0	028.0000	0325.2	061.4	189.8	002.2000	0360.3	112.6	37.60	
285.0	028.0000	0323.8	061.3	189.7	002.2000	0360.2	111.5	37.87	
286.0	028.0000	0321.9	061.2	189.6	002.2000	0360.1	110.5	38.14	
287.0	028.0000	0320.1	061.1	189.5	002.2000	0360.0	109.4	38.41	
288.0	028.0000	0318.6	061.0	189.3	002.2000	0359.9	108.4	38.68	
289.0	028.0000	0318.1	060.9	189.2	002.2000	0359.8	107.3	38.95	
290.0	028.0000	0318.4	061.0	189.1	002.2000	0359.7	106.3	39.23	
291.0	028.0000	0319.0	061.0	189.0	002.2000	0359.6	105.2	39.51	
292.0	028.0000	0319.2	061.0	188.9	002.2000	0359.5	104.2	39.79	
293.0	028.0000	0318.6	061.0	188.8	002.2000	0359.3	103.2	40.06	
294.0	028.0000	0317.1	060.9	188.6	002.2000	0359.1	102.2	40.33	
295.0	028.0000	0314.6	060.7	188.3	002.2000	0358.8	101.2	40.59	
296.0	028.0000	0311.7	060.5	188.0	002.2000	0358.4	100.3	40.85	
297.0	028.0000	0309.1	060.3	187.7	002.2000	0358.0	099.3	41.10	
298.0	028.0000	0308.0	060.2	187.5	002.2000	0357.6	098.4	41.37	
299.0	028.0000	0308.8	060.3	187.3	002.2000	0357.5	097.4	41.65	
300.0	028.0000	0310.7	060.4	187.1	002.2000	0357.5	096.3	41.95	
301.0	028.0000	0312.9	060.6	186.9	002.2000	0357.5	095.3	42.26	
302.0	028.0000	0314.5	060.7	186.7	002.2000	0357.6	094.3	42.56	
303.0	028.0000	0315.4	060.8	186.5	002.2000	0357.7	093.3	42.87	
304.0	028.0000	0316.1	060.8	186.2	002.2000	0357.8	092.3	43.17	
305.0	028.0000	0316.5	060.8	185.9	002.2000	0357.9	091.4	43.47	
306.0	028.0000	0316.8	060.9	185.6	002.2000	0358.1	090.5	43.77	
307.0	028.0000	0317.1	060.9	185.2	002.2000	0358.3	089.6	44.07	
308.0	028.0000	0317.8	060.9	184.9	002.2000	0358.4	088.6	44.37	
309.0	028.0000	0319.1	061.0	184.6	002.2000	0358.5	087.7	44.68	
310.0	028.0000	0320.3	061.1	184.2	002.2000	0358.6	086.8	44.98	
311.0	028.0000	0321.6	061.2	183.8	002.2000	0358.8	085.9	45.29	
312.0	028.0000	0322.8	061.3	183.4	002.2000	0359.8	085.0	45.62	
313.0	028.0000	0324.4	061.4	183.0	002.2000	0361.4	084.1	45.97	
314.0	028.0000	0326.4	061.5	182.6	002.2000	0363.2	083.2	46.33	
315.0	028.0000	0328.4	061.7	182.2	002.2000	0365.3	082.3	46.70	

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
316.0	028.0000	0329.9	061.8	181.8	002.2000	0367.8	081.4	47.07
317.0	028.0000	0330.9	061.8	181.2	002.2000	0370.4	080.6	47.43
318.0	028.0000	0331.3	061.9	180.7	002.2000	0373.1	079.8	47.78
319.0	028.0000	0331.1	061.9	180.1	002.2000	0376.7	079.1	48.14
320.0	028.0000	0330.5	061.8	179.5	002.2000	0380.6	078.5	48.49
321.0	028.0000	0330.2	061.8	178.9	002.2000	0384.6	077.8	48.85
322.0	028.0000	0329.8	061.8	178.2	002.2000	0388.7	077.2	49.19
323.0	028.0000	0328.9	061.7	177.5	002.2000	0391.4	076.6	49.47
324.0	028.0000	0327.5	061.6	176.8	002.2000	0392.3	076.1	49.67
325.0	028.0000	0326.6	061.5	176.1	002.2000	0392.9	075.6	49.87
326.0	028.0000	0326.6	061.5	175.4	002.2000	0393.5	075.0	50.07
327.0	028.0000	0327.0	061.6	174.7	002.2000	0394.0	074.5	50.27
328.0	028.0000	0327.7	061.6	174.0	002.2000	0394.4	074.0	50.46
329.0	028.0000	0328.1	061.6	173.2	002.2000	0396.1	073.5	50.67
330.0	028.0000	0327.8	061.6	172.4	002.2000	0398.0	073.1	50.87
331.0	028.0000	0326.8	061.6	171.6	002.2000	0399.7	072.7	51.03
332.0	028.0000	0325.9	061.5	170.8	002.2000	0400.1	072.4	51.15
333.0	028.0000	0325.1	061.4	170.0	002.2000	0399.2	072.2	51.22
334.0	028.0000	0324.4	061.4	169.2	002.2000	0397.6	071.9	51.25
335.0	028.0000	0323.3	061.3	168.3	002.2000	0394.7	071.7	51.24
336.0	028.0000	0321.9	061.2	167.5	002.2000	0390.9	071.6	51.17
337.0	028.0000	0320.1	061.1	166.6	002.2000	0386.2	071.5	51.06
338.0	028.0000	0318.4	061.0	165.7	002.2000	0380.7	071.5	50.92
339.0	028.0000	0316.6	060.8	164.9	002.2000	0375.1	071.5	50.75
340.0	028.0000	0314.0	060.7	164.0	002.2000	0369.7	071.5	50.56
341.0	028.0000	0311.1	060.5	163.2	002.2000	0364.1	071.7	50.33
342.0	028.0000	0309.1	060.3	162.3	002.2000	0358.4	071.8	50.10
343.0	028.0000	0308.4	060.3	161.5	002.2000	0353.5	071.9	49.92
344.0	028.0000	0308.7	060.3	160.6	002.2000	0349.3	071.9	49.77
345.0	028.0000	0309.6	060.4	159.8	002.2000	0345.6	071.9	49.64
346.0	028.0000	0310.1	060.4	159.0	002.2000	0342.0	072.0	49.49
347.0	028.0000	0309.5	060.3	158.1	002.2000	0339.0	072.2	49.32
348.0	028.0000	0307.8	060.2	157.3	002.2000	0336.9	072.4	49.14
349.0	028.0000	0305.8	060.1	156.5	002.2000	0335.5	072.8	48.98
350.0	028.0000	0302.8	059.9	155.8	002.2000	0334.7	073.2	48.79
351.0	028.0000	0299.6	059.7	155.0	002.2000	0334.5	073.7	48.62
352.0	028.0000	0299.1	059.6	154.2	002.2000	0335.0	074.0	48.52
353.0	028.0000	0299.2	059.6	153.5	002.2000	0335.9	074.4	48.43
354.0	028.0000	0296.9	059.5	152.8	002.2000	0336.8	074.9	48.28
355.0	028.0000	0292.2	059.1	152.1	002.2000	0337.5	075.6	48.07
356.0	028.0000	0287.7	058.8	151.5	002.2000	0338.2	076.3	47.85
357.0	028.0000	0285.8	058.7	150.9	002.2000	0339.0	076.8	47.68
358.0	028.0000	0284.6	058.6	150.2	002.2000	0340.0	077.4	47.53
359.0	028.0000	0283.7	058.5	149.6	002.2000	0341.3	077.9	47.39
000.0	028.0000	0283.9	058.5	148.9	002.2000	0342.8	078.4	47.27
001.0	028.0000	0284.2	058.6	148.3	002.2000	0344.0	078.9	47.13
002.0	028.0000	0279.8	058.3	147.8	002.2000	0344.9	079.7	46.89
003.0	028.0000	0274.8	057.9	147.3	002.2000	0345.7	080.6	46.62
004.0	028.0000	0269.0	057.5	146.9	002.2000	0346.6	081.5	46.33
005.0	028.0000	0260.7	056.9	146.6	002.2000	0347.2	082.6	45.99
006.0	028.0000	0254.0	056.4	146.3	002.2000	0347.9	083.6	45.68

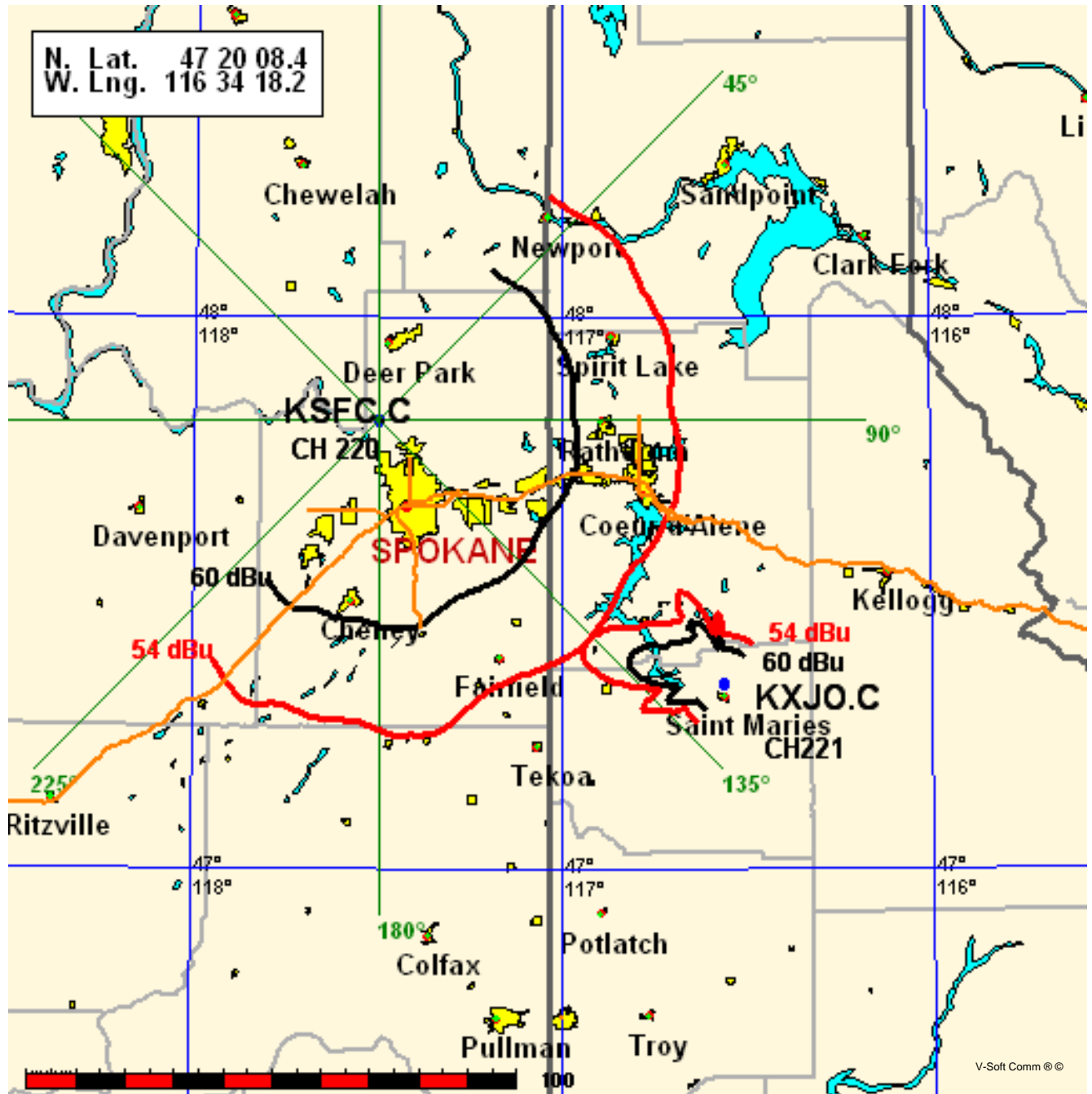
Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
007.0	028.0000	0249.7	056.1	145.9	002.2000	0348.7	084.5	45.42
008.0	028.0000	0245.4	055.7	145.6	002.2000	0349.5	085.4	45.15
009.0	028.0000	0238.1	055.2	145.3	002.2000	0350.2	086.4	44.83
010.0	028.0000	0230.0	054.6	145.2	002.2000	0350.6	087.6	44.48
011.0	028.0000	0224.7	054.2	144.9	002.2000	0351.3	088.5	44.18
012.0	028.0000	0223.2	054.0	144.5	002.2000	0352.3	089.3	43.97
013.0	028.0000	0224.2	054.1	144.1	002.2000	0353.8	089.9	43.81
014.0	028.0000	0224.7	054.2	143.7	002.2000	0355.1	090.6	43.63
015.0	028.0000	0224.3	054.1	143.3	002.2000	0356.3	091.4	43.43
016.0	028.0000	0223.9	054.1	143.0	002.2000	0357.5	092.1	43.22
017.0	028.0000	0225.6	054.2	142.6	002.2000	0358.8	092.8	43.05
018.0	028.0000	0228.4	054.4	142.1	002.2000	0360.2	093.5	42.90
019.0	028.0000	0230.2	054.6	141.7	002.2000	0361.3	094.2	42.71
020.0	028.0000	0229.6	054.5	141.4	002.2000	0362.1	095.0	42.49
021.0	028.0000	0227.9	054.4	141.2	002.2000	0362.7	095.9	42.24
022.0	028.0000	0228.4	054.4	140.9	002.2000	0363.5	096.7	42.03
023.0	028.0000	0228.5	054.5	140.6	002.2000	0364.1	097.5	41.81
024.0	028.0000	0225.1	054.2	140.5	002.2000	0364.3	098.5	41.54
025.0	028.0000	0219.0	053.7	140.5	002.2000	0364.3	099.6	41.24
026.0	028.0000	0211.9	053.1	140.6	002.2000	0364.1	100.6	40.93
027.0	028.0000	0207.4	052.7	140.5	002.2000	0364.2	101.6	40.66
028.0	028.0000	0205.3	052.6	140.4	002.2000	0364.5	102.6	40.41
029.0	028.0000	0202.6	052.3	140.3	002.2000	0364.7	103.5	40.17
030.0	028.0000	0200.7	052.2	140.2	002.2000	0364.9	104.4	39.93
031.0	028.0000	0199.7	052.1	140.1	002.2000	0365.1	105.3	39.70
032.0	028.0000	0199.6	052.1	140.0	002.2000	0365.4	106.1	39.48
033.0	028.0000	0200.8	052.2	139.7	002.2000	0365.8	107.0	39.28
034.0	028.0000	0203.3	052.4	139.5	002.2000	0366.3	107.8	39.08
035.0	028.0000	0207.3	052.7	139.2	002.2000	0366.7	108.6	38.88
036.0	028.0000	0211.3	053.1	138.9	002.2000	0367.1	109.4	38.69
037.0	028.0000	0215.4	053.4	138.6	002.2000	0367.5	110.2	38.49
038.0	028.0000	0219.0	053.7	138.4	002.2000	0367.7	111.1	38.27
039.0	028.0000	0221.8	053.9	138.2	002.2000	0367.9	112.0	38.05
040.0	028.0000	0223.5	054.1	138.0	002.2000	0368.0	112.9	37.82
041.0	028.0000	0224.8	054.2	137.9	002.2000	0368.1	113.8	37.59
042.0	028.0000	0468.3	071.1	129.4	002.2000	0357.4	114.1	37.10

KFSC Allocation Map
Spokane Public Radio, Inc.

FMCommander Single Allocation Study - 10-10-2009 - FCC NGDC 30 Sec
KSFC.C's Overlaps (In= 24.5 km, Out= 8.52 km)

KSFC.C CH 220 C3
Lat= 47 48 48.0, Lng= 117 30 23.0
2.2 kW 334.8 M HAAT, 958.4 M COR
Prot.= 60 dBu, Intef.= 54 dBu

KXJO-C CH 221 A 73.215 N
Lat= 47 20 08.4, Lng= 116 34 18.2
0.2 kW 6.8 M HAAT, 926 M COR
Prot.= 60 dBu, Intef.= 54 dBu



10-10-2009

FCC NGDC 30 Sec Terrain Data

FMOver Analysis

KSFC.C

Channel = 220C3

Max ERP = 2.2 kW

RCAMSL = 958.42 M

N. Lat. 47 48 48.0

W. Lng. 117 30 23.0

Protected

60 dBu

KXJO-C Downgraded by owner applicant

Channel = 221A

Max ERP = 0.2 kW

RCAMSL = 926.02 M

N. Lat. 47 20 08.4

W. Lng. 116 34 18.2

Interfering

54 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
067.0	002.2000	0350.9	040.1	334.3	000.2000	0120.8	076.4	29.15	
068.0	002.2000	0352.2	040.1	334.4	000.2000	0120.7	075.7	29.36	
069.0	002.2000	0354.3	040.2	334.4	000.2000	0120.7	075.0	29.57	
070.0	002.2000	0356.7	040.4	334.5	000.2000	0120.6	074.3	29.78	
071.0	002.2000	0358.8	040.5	334.5	000.2000	0120.6	073.5	29.99	
072.0	002.2000	0360.0	040.5	334.4	000.2000	0120.6	072.8	30.20	
073.0	002.2000	0360.5	040.6	334.4	000.2000	0120.7	072.1	30.42	
074.0	002.2000	0361.2	040.6	334.3	000.2000	0120.9	071.4	30.64	
075.0	002.2000	0361.7	040.6	334.2	000.2000	0121.0	070.7	30.86	
076.0	002.2000	0361.6	040.6	334.1	000.2000	0121.2	070.0	31.09	
077.0	002.2000	0361.0	040.6	334.0	000.2000	0121.5	069.4	31.31	
078.0	002.2000	0359.5	040.5	333.7	000.2000	0121.8	068.7	31.53	
079.0	002.2000	0357.7	040.4	333.5	000.2000	0122.0	068.0	31.75	
080.0	002.2000	0356.0	040.3	333.3	000.2000	0122.3	067.4	31.97	
081.0	002.2000	0354.7	040.3	333.0	000.2000	0122.5	066.7	32.19	
082.0	002.2000	0352.6	040.2	332.8	000.2000	0122.6	066.1	32.39	
083.0	002.2000	0349.1	040.0	332.4	000.2000	0122.6	065.5	32.58	
084.0	002.2000	0345.8	039.8	332.0	000.2000	0122.0	064.9	32.73	
085.0	002.2000	0343.4	039.7	331.7	000.2000	0120.9	064.3	32.86	
086.0	002.2000	0343.8	039.7	331.4	000.2000	0119.8	063.7	33.01	
087.0	002.2000	0344.1	039.7	331.2	000.2000	0118.6	063.1	33.15	
088.0	002.2000	0345.0	039.8	330.9	000.2000	0117.1	062.4	33.29	
089.0	002.2000	0347.1	039.9	330.7	000.2000	0115.8	061.8	33.44	
090.0	002.2000	0350.4	040.0	330.5	000.2000	0114.7	061.1	33.62	
091.0	002.2000	0353.8	040.2	330.3	000.2000	0113.5	060.4	33.79	
092.0	002.2000	0357.3	040.4	330.1	000.2000	0111.9	059.7	33.95	
093.0	002.2000	0360.4	040.6	329.9	000.2000	0110.3	059.0	34.09	
094.0	002.2000	0363.3	040.7	329.6	000.2000	0108.5	058.4	34.23	
095.0	002.2000	0365.9	040.8	329.3	000.2000	0106.6	057.7	34.35	
096.0	002.2000	0367.7	040.9	329.0	000.2000	0104.1	057.1	34.42	
097.0	002.2000	0369.4	041.0	328.6	000.2000	0101.1	056.5	34.45	
098.0	002.2000	0371.1	041.1	328.2	000.2000	0097.4	055.9	34.42	
099.0	002.2000	0372.4	041.1	327.7	000.2000	0093.5	055.3	34.35	
100.0	002.2000	0373.2	041.2	327.3	000.2000	0089.2	054.7	34.24	
101.0	002.2000	0374.6	041.2	326.8	000.2000	0085.2	054.2	34.12	
102.0	002.2000	0376.4	041.3	326.3	000.2000	0082.0	053.6	34.07	
103.0	002.2000	0378.3	041.4	325.8	000.2000	0079.5	053.0	34.06	

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
104.0	002.2000	0379.7	041.5	325.2	000.2000	0078.3	052.5	34.14
105.0	002.2000	0379.7	041.5	324.6	000.2000	0077.8	052.1	34.26
106.0	002.2000	0378.1	041.4	324.0	000.2000	0077.4	051.7	34.37
107.0	002.2000	0375.4	041.3	323.2	000.2000	0077.1	051.3	34.45
108.0	002.2000	0372.5	041.1	322.5	000.2000	0077.7	051.0	34.61
109.0	002.2000	0370.1	041.0	321.7	000.2000	0079.4	050.7	34.87
110.0	002.2000	0368.8	041.0	321.0	000.2000	0081.0	050.4	35.13
111.0	002.2000	0368.1	040.9	320.3	000.2000	0082.1	050.1	35.34
112.0	002.2000	0367.3	040.9	319.6	000.2000	0082.4	049.8	35.47
113.0	002.2000	0366.3	040.8	318.8	000.2000	0082.7	049.5	35.59
114.0	002.2000	0364.8	040.8	318.0	000.2000	0083.6	049.3	35.76
115.0	002.2000	0362.6	040.7	317.2	000.2000	0085.3	049.1	35.97
116.0	002.2000	0359.8	040.5	316.4	000.2000	0087.5	049.0	36.20
117.0	002.2000	0356.1	040.3	315.5	000.2000	0089.7	048.9	36.41
118.0	002.2000	0352.0	040.1	314.7	000.2000	0091.4	048.9	36.56
119.0	002.2000	0348.4	039.9	313.8	000.2000	0092.7	048.9	36.67
120.0	002.2000	0345.7	039.8	313.0	000.2000	0093.7	048.9	36.76
121.0	002.2000	0344.3	039.7	312.2	000.2000	0094.9	048.8	36.88
122.0	002.2000	0343.8	039.7	311.4	000.2000	0096.4	048.7	37.04
123.0	002.2000	0343.8	039.7	310.5	000.2000	0098.8	048.6	37.26
124.0	002.2000	0344.1	039.7	309.7	000.2000	0101.7	048.5	37.52
125.0	002.2000	0345.1	039.8	308.9	000.2000	0105.1	048.4	37.80
126.0	002.2000	0347.2	039.9	308.1	000.2000	0109.2	048.3	38.14
127.0	002.2000	0350.0	040.0	307.3	000.2000	0113.6	048.1	38.49
128.0	002.2000	0353.4	040.2	306.4	000.2000	0117.9	048.0	38.81
129.0	002.2000	0356.5	040.4	305.6	000.2000	0120.8	047.8	39.03
130.0	002.2000	0359.1	040.5	304.7	000.2000	0122.0	047.8	39.12
131.0	002.2000	0361.3	040.6	303.9	000.2000	0122.2	047.7	39.14
132.0	002.2000	0363.3	040.7	303.0	000.2000	0123.1	047.7	39.18
133.0	002.2000	0365.1	040.8	302.2	000.2000	0125.8	047.8	39.32
134.0	002.2000	0366.5	040.9	301.3	000.2000	0130.4	047.9	39.53
135.0	002.2000	0367.8	040.9	300.5	000.2000	0136.7	048.0	39.82
136.0	002.2000	0368.5	040.9	299.6	000.2000	0143.9	048.1	40.13
137.0	002.2000	0368.6	041.0	298.8	000.2000	0152.4	048.3	40.49
138.0	002.2000	0368.1	040.9	298.0	000.2000	0161.2	048.6	40.84
139.0	002.2000	0367.0	040.9	297.3	000.2000	0169.8	048.9	41.15
140.0	002.2000	0365.3	040.8	296.6	000.2000	0177.7	049.3	41.39
141.0	002.2000	0363.2	040.7	295.9	000.2000	0184.7	049.7	41.56
142.0	002.2000	0360.5	040.6	295.2	000.2000	0190.5	050.1	41.66
143.0	002.2000	0357.4	040.4	294.6	000.2000	0195.1	050.6	41.69
144.0	002.2000	0354.1	040.2	294.0	000.2000	0198.8	051.0	41.67
145.0	002.2000	0351.1	040.1	293.4	000.2000	0202.5	051.5	41.65
146.0	002.2000	0348.5	039.9	292.8	000.2000	0206.3	052.0	41.63
147.0	002.2000	0346.4	039.8	292.3	000.2000	0210.5	052.5	41.63
148.0	002.2000	0344.5	039.7	291.7	000.2000	0214.9	053.0	41.63
149.0	002.2000	0342.6	039.6	291.2	000.2000	0219.5	053.5	41.63
150.0	002.2000	0340.4	039.5	290.7	000.2000	0223.9	054.0	41.61
151.0	002.2000	0338.8	039.4	290.2	000.2000	0228.5	054.5	41.59
152.0	002.2000	0337.6	039.4	289.7	000.2000	0232.8	055.0	41.56
153.0	002.2000	0336.5	039.3	289.3	000.2000	0236.5	055.5	41.49
154.0	002.2000	0335.3	039.2	288.8	000.2000	0239.7	056.1	41.40

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
155.0	002.2000	0334.5	039.2	288.4	000.2000	0242.7	056.6	41.30
156.0	002.2000	0334.9	039.2	287.9	000.2000	0245.4	057.1	41.20
157.0	002.2000	0336.3	039.3	287.4	000.2000	0247.7	057.6	41.10
158.0	002.2000	0338.7	039.4	286.8	000.2000	0249.6	058.0	40.99
159.0	002.2000	0342.2	039.6	286.3	000.2000	0251.2	058.4	40.88
160.0	002.2000	0346.5	039.8	285.7	000.2000	0252.5	058.9	40.76
161.0	002.2000	0351.0	040.1	285.1	000.2000	0253.6	059.3	40.63
162.0	002.2000	0356.4	040.4	284.6	000.2000	0254.7	059.7	40.50
163.0	002.2000	0363.0	040.7	283.9	000.2000	0255.8	060.2	40.37
164.0	002.2000	0369.6	041.0	283.3	000.2000	0256.7	060.6	40.23
165.0	002.2000	0375.9	041.3	282.8	000.2000	0257.1	061.1	40.05
166.0	002.2000	0382.4	041.6	282.2	000.2000	0257.3	061.6	39.87
167.0	002.2000	0388.5	041.9	281.7	000.2000	0257.3	062.2	39.67
168.0	002.2000	0393.4	042.1	281.3	000.2000	0257.3	062.8	39.45
169.0	002.2000	0397.2	042.3	280.9	000.2000	0257.2	063.4	39.23
170.0	002.2000	0399.2	042.4	280.6	000.2000	0257.0	064.0	38.98
171.0	002.2000	0400.2	042.4	280.3	000.2000	0256.6	064.7	38.73
172.0	002.2000	0398.9	042.3	280.1	000.2000	0256.3	065.4	38.47
173.0	002.2000	0396.7	042.2	280.0	000.2000	0256.1	066.2	38.21
174.0	002.2000	0394.4	042.1	280.0	000.2000	0255.9	066.9	37.95
175.0	002.2000	0393.8	042.1	279.8	000.2000	0255.6	067.6	37.69
176.0	002.2000	0393.0	042.1	279.7	000.2000	0255.3	068.3	37.43
177.0	002.2000	0392.1	042.0	279.6	000.2000	0255.1	069.1	37.18
178.0	002.2000	0390.0	041.9	279.6	000.2000	0255.0	069.8	36.92
179.0	002.2000	0383.7	041.7	279.7	000.2000	0255.3	070.6	36.67
180.0	002.2000	0377.4	041.4	279.8	000.2000	0255.6	071.3	36.42
181.0	002.2000	0371.7	041.1	279.9	000.2000	0255.8	072.1	36.18
182.0	002.2000	0366.4	040.9	280.1	000.2000	0256.1	072.8	35.94
183.0	002.2000	0361.6	040.6	280.2	000.2000	0256.3	073.5	35.70
184.0	002.2000	0358.7	040.5	280.2	000.2000	0256.5	074.3	35.46
185.0	002.2000	0358.4	040.5	280.2	000.2000	0256.4	075.0	35.22
186.0	002.2000	0357.9	040.4	280.2	000.2000	0256.3	075.7	34.99
187.0	002.2000	0298.7	037.3	282.5	000.2000	0257.2	076.6	34.72

10-10-2009 FCC NGDC 30 Sec Terrain Data

KXJO-C

Channel = 221A

Max ERP = 0.2 kW

RCAMSL = 926.02 M

N. Lat. 47 20 08.4

W. Lng. 116 34 18.2

Protected

60 dBu

KSFC.C

Channel = 220C3

Max ERP = 2.2 kW

RCAMSL = 958.42 M

N. Lat. 47 48 48.0

W. Lng. 117 30 23.0

Interfering

54 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
247.0	000.2000	0072.2	010.5	133.1	002.2000	0365.2	083.3	46.36	
248.0	000.2000	0079.2	010.9	133.3	002.2000	0365.6	082.9	46.49	
249.0	000.2000	0086.0	011.3	133.5	002.2000	0365.9	082.6	46.62	
250.0	000.2000	0091.0	011.7	133.7	002.2000	0366.1	082.3	46.73	
251.0	000.2000	0094.3	011.9	133.7	002.2000	0366.2	082.0	46.83	
252.0	000.2000	0096.2	012.0	133.7	002.2000	0366.2	081.7	46.91	
253.0	000.2000	0095.5	011.9	133.6	002.2000	0366.1	081.6	46.96	
254.0	000.2000	0092.5	011.7	133.5	002.2000	0365.8	081.5	46.98	
255.0	000.2000	0088.7	011.5	133.2	002.2000	0365.5	081.4	46.99	
256.0	000.2000	0084.7	011.3	133.0	002.2000	0365.1	081.4	47.00	
257.0	000.2000	0080.8	011.0	132.8	002.2000	0364.8	081.4	46.99	
258.0	000.2000	0075.4	010.7	132.5	002.2000	0364.3	081.4	46.96	
259.0	000.2000	0071.3	010.4	132.3	002.2000	0363.9	081.4	46.95	
260.0	000.2000	0066.9	010.1	132.1	002.2000	0363.4	081.4	46.92	
261.0	000.2000	0063.1	009.8	131.8	002.2000	0363.0	081.5	46.90	
262.0	000.2000	0060.6	009.7	131.7	002.2000	0362.7	081.4	46.89	
263.0	000.2000	0059.4	009.6	131.5	002.2000	0362.4	081.4	46.91	
264.0	000.2000	0060.6	009.7	131.5	002.2000	0362.3	081.2	46.97	
265.0	000.2000	0070.3	010.3	131.8	002.2000	0362.9	080.6	47.19	
266.0	000.2000	0087.5	011.4	132.3	002.2000	0363.8	079.7	47.52	
267.0	000.2000	0103.9	012.4	132.7	002.2000	0364.5	078.9	47.82	
268.0	000.2000	0118.7	013.2	133.0	002.2000	0365.1	078.2	48.09	
269.0	000.2000	0131.1	013.9	133.2	002.2000	0365.4	077.5	48.32	
270.0	000.2000	0144.4	014.6	133.5	002.2000	0365.8	076.8	48.58	
271.0	000.2000	0157.8	015.4	133.7	002.2000	0366.2	076.1	48.85	
272.0	000.2000	0171.3	016.2	133.9	002.2000	0366.5	075.3	49.12	
273.0	000.2000	0184.2	016.8	134.1	002.2000	0366.7	074.7	49.36	
274.0	000.2000	0195.2	017.3	134.2	002.2000	0366.8	074.1	49.56	
275.0	000.2000	0206.9	017.8	134.3	002.2000	0366.9	073.5	49.77	
276.0	000.2000	0218.6	018.3	134.3	002.2000	0367.0	072.9	49.98	
277.0	000.2000	0230.8	018.8	134.4	002.2000	0367.0	072.3	50.19	
278.0	000.2000	0243.6	019.3	134.4	002.2000	0367.1	071.7	50.41	
279.0	000.2000	0252.4	019.7	134.4	002.2000	0367.0	071.3	50.58	
280.0	000.2000	0256.0	019.8	134.2	002.2000	0366.8	070.9	50.68	

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
281.0	000.2000	0257.3	019.8	134.0	002.2000	0366.5	070.7	50.75
282.0	000.2000	0257.3	019.8	133.7	002.2000	0366.2	070.5	50.81
283.0	000.2000	0257.0	019.8	133.5	002.2000	0365.9	070.3	50.86
284.0	000.2000	0255.7	019.8	133.2	002.2000	0365.5	070.2	50.90
285.0	000.2000	0253.9	019.7	133.0	002.2000	0365.0	070.1	50.92
286.0	000.2000	0251.9	019.6	132.7	002.2000	0364.6	070.0	50.94
287.0	000.2000	0249.1	019.5	132.4	002.2000	0364.1	070.0	50.94
288.0	000.2000	0244.7	019.4	132.1	002.2000	0363.5	070.0	50.92
289.0	000.2000	0238.3	019.1	131.8	002.2000	0362.9	070.1	50.87
290.0	000.2000	0230.5	018.8	131.4	002.2000	0362.1	070.2	50.78
291.0	000.2000	0221.2	018.4	131.0	002.2000	0361.4	070.5	50.67
292.0	000.2000	0212.5	018.0	130.7	002.2000	0360.7	070.7	50.56
293.0	000.2000	0205.1	017.7	130.4	002.2000	0360.0	070.9	50.47
294.0	000.2000	0198.7	017.4	130.1	002.2000	0359.3	071.1	50.38
295.0	000.2000	0191.9	017.1	129.8	002.2000	0358.5	071.3	50.29
296.0	000.2000	0183.3	016.8	129.5	002.2000	0357.7	071.6	50.16
297.0	000.2000	0173.0	016.3	129.1	002.2000	0356.9	072.0	49.98
298.0	000.2000	0161.6	015.6	128.8	002.2000	0356.0	072.6	49.75
299.0	000.2000	0150.3	015.0	128.5	002.2000	0355.1	073.2	49.51
300.0	000.2000	0140.7	014.4	128.3	002.2000	0354.3	073.7	49.31
301.0	000.2000	0132.6	014.0	128.0	002.2000	0353.5	074.1	49.13
302.0	000.2000	0126.6	013.6	127.8	002.2000	0352.8	074.4	49.01
303.0	000.2000	0123.1	013.5	127.6	002.2000	0352.1	074.5	48.93
304.0	000.2000	0122.2	013.4	127.4	002.2000	0351.5	074.6	48.90
305.0	000.2000	0121.7	013.4	127.2	002.2000	0350.8	074.6	48.87
306.0	000.2000	0119.7	013.3	127.1	002.2000	0350.2	074.7	48.82
307.0	000.2000	0115.2	013.0	126.9	002.2000	0349.7	074.9	48.72
308.0	000.2000	0109.8	012.7	126.7	002.2000	0349.2	075.2	48.59
309.0	000.2000	0104.8	012.5	126.5	002.2000	0348.7	075.5	48.48
310.0	000.2000	0100.8	012.2	126.4	002.2000	0348.3	075.7	48.38
311.0	000.2000	0097.4	012.0	126.2	002.2000	0347.8	075.9	48.29
312.0	000.2000	0095.1	011.9	126.1	002.2000	0347.4	076.1	48.23
313.0	000.2000	0093.7	011.8	125.9	002.2000	0347.1	076.2	48.18
314.0	000.2000	0092.4	011.7	125.8	002.2000	0346.7	076.3	48.13
315.0	000.2000	0090.8	011.6	125.7	002.2000	0346.4	076.4	48.07
316.0	000.2000	0088.5	011.5	125.5	002.2000	0346.1	076.6	48.01
317.0	000.2000	0085.7	011.3	125.4	002.2000	0345.8	076.8	47.93
318.0	000.2000	0083.6	011.2	125.3	002.2000	0345.6	077.0	47.86
319.0	000.2000	0082.6	011.1	125.1	002.2000	0345.4	077.1	47.82
320.0	000.2000	0082.2	011.1	125.0	002.2000	0345.1	077.1	47.78
321.0	000.2000	0081.1	011.0	124.9	002.2000	0345.0	077.3	47.74
322.0	000.2000	0078.8	010.9	124.8	002.2000	0344.8	077.4	47.67
323.0	000.2000	0077.1	010.8	124.7	002.2000	0344.7	077.6	47.61
324.0	000.2000	0077.4	010.8	124.5	002.2000	0344.5	077.6	47.59
325.0	000.2000	0078.0	010.8	124.4	002.2000	0344.4	077.7	47.58
326.0	000.2000	0080.5	011.0	124.2	002.2000	0344.3	077.6	47.60
327.0	000.2000	0086.9	011.4	124.0	002.2000	0344.1	077.3	47.70
328.0	000.2000	0095.9	011.9	123.7	002.2000	0343.9	076.9	47.83
329.0	000.2000	0104.4	012.4	123.4	002.2000	0343.8	076.5	47.96
330.0	000.2000	0111.0	012.8	123.1	002.2000	0343.8	076.3	48.04
331.0	000.2000	0117.5	013.2	122.8	002.2000	0343.8	076.0	48.11

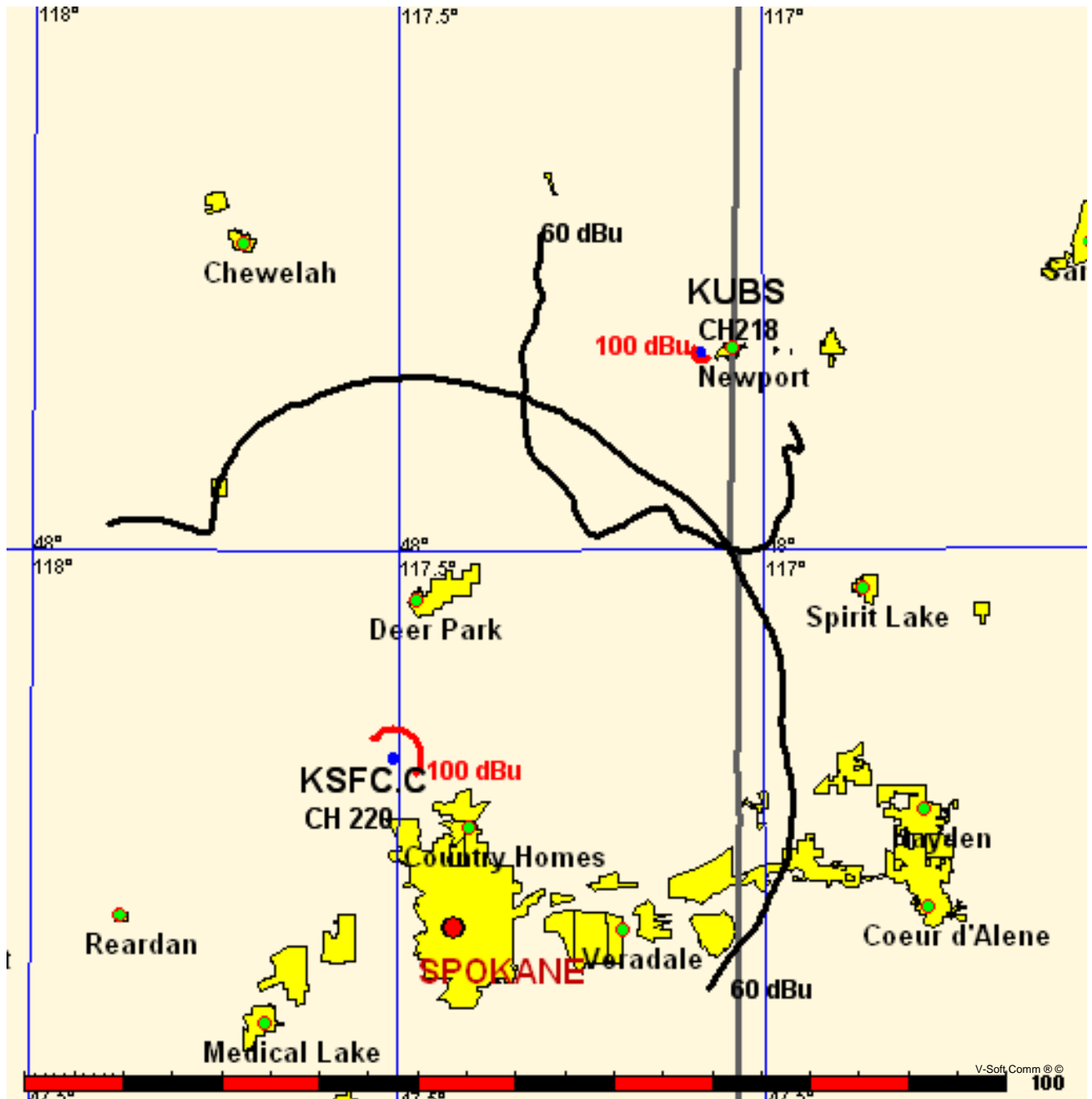
Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
332.0	000.2000	0121.9	013.4	122.6	002.2000	0343.8	076.0	48.14
333.0	000.2000	0122.5	013.4	122.4	002.2000	0343.8	076.0	48.11
334.0	000.2000	0121.4	013.4	122.3	002.2000	0343.8	076.2	48.06
335.0	000.2000	0119.3	013.3	122.2	002.2000	0343.8	076.4	47.98
336.0	000.2000	0115.4	013.1	122.1	002.2000	0343.8	076.7	47.88
337.0	000.2000	0111.2	012.8	122.1	002.2000	0343.8	077.0	47.77
338.0	000.2000	0107.2	012.6	122.1	002.2000	0343.8	077.4	47.66
339.0	000.2000	0102.5	012.3	122.0	002.2000	0343.8	077.7	47.54
340.0	000.2000	0097.0	012.0	122.1	002.2000	0343.8	078.1	47.41
341.0	000.2000	0091.0	011.7	122.1	002.2000	0343.8	078.5	47.27
342.0	000.2000	0084.0	011.2	122.2	002.2000	0343.8	079.0	47.11
343.0	000.2000	0076.4	010.7	122.3	002.2000	0343.8	079.4	46.95
344.0	000.2000	0068.1	010.2	122.5	002.2000	0343.8	080.0	46.76
345.0	000.2000	0058.6	009.5	122.7	002.2000	0343.8	080.6	46.56
346.0	000.2000	0047.8	008.5	123.1	002.2000	0343.8	081.5	46.27
347.0	000.2000	0038.6	007.5	123.5	002.2000	0343.8	082.3	46.00
348.0	000.2000	0033.8	007.1	123.6	002.2000	0343.9	082.7	45.86
349.0	000.2000	0033.3	007.0	123.6	002.2000	0343.9	082.8	45.82
350.0	000.2000	0037.9	007.5	123.3	002.2000	0343.8	082.6	45.89
351.0	000.2000	0043.6	008.1	122.9	002.2000	0343.8	082.3	46.00
352.0	000.2000	0050.2	008.8	122.5	002.2000	0343.8	081.9	46.11
353.0	000.2000	0057.3	009.4	122.1	002.2000	0343.8	081.6	46.22
354.0	000.2000	0064.5	009.9	121.7	002.2000	0343.9	081.4	46.29
355.0	000.2000	0064.7	010.0	121.6	002.2000	0343.9	081.6	46.24
356.0	000.2000	0057.3	009.4	121.9	002.2000	0343.8	082.0	46.09
357.0	000.2000	0044.1	008.1	122.5	002.2000	0343.8	082.9	45.79
358.0	000.2000	0030.1	006.7	123.3	002.2000	0343.8	083.8	45.48
359.0	000.2000	0019.7	006.7	123.2	002.2000	0343.8	083.9	45.45
000.0	000.2000	0004.4	006.7	123.2	002.2000	0343.8	084.0	45.42
001.0	000.2000	-0011.2	006.7	123.1	002.2000	0343.8	084.1	45.38
002.0	000.2000	-0026.1	006.7	123.1	002.2000	0343.8	084.2	45.35
003.0	000.2000	-0039.6	006.7	123.0	002.2000	0343.8	084.3	45.32
004.0	000.2000	-0050.1	006.7	123.0	002.2000	0343.8	084.4	45.29
005.0	000.2000	-0052.8	006.7	123.0	002.2000	0343.8	084.5	45.25
006.0	000.2000	-0056.4	006.7	122.9	002.2000	0343.8	084.6	45.22
007.0	000.2000	0266.3	020.2	114.2	002.2000	0364.5	079.6	47.57

Allocation Map, KFSC
Spokane Public Radio, Inc.

FMCommander Single Allocation Study - 10-10-2009 - FCC NGDC 30 Sec
KSFC.C's Overlaps (In= 12.29 km, Out= 27.76 km)

KSFC.C CH 220 C3
Lat= 47 48 48.0, Lng= 117 30 23.0
2.2 kW 334.8 M HAAT, 958.4 M COR
Prot.= 60 dBu, Intef.= 100 dBu

KUBS CH 218 A BLED20080319ABC
Lat= 48 10 42.0, Lng= 117 04 59.0
0.15 kW 224 M HAAT, 1032 M COR
Prot.= 60 dBu, Intef.= 100 dBu



10-10-2009

FCC NGDC 30 Sec Terrain Data

FMOver Analysis

KSFC.C

Channel = 220C3

Max ERP = 2.2 kW

RCAMSL = 958.42 M

N. Lat. 47 48 48.0

W. Lng. 117 30 23.0

Protected

60 dBu

KUBS BLED20080319ABC

Channel = 218A

Max ERP = 0.15 kW

RCAMSL = 1032 M

N. Lat. 48 10 42.0

W. Lng. 117 04 59.0

Interfering

100 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
338.0	002.2000	0277.2	036.0	261.1	000.1500	0251.3	045.4	44.91	
339.0	002.2000	0280.0	036.2	261.5	000.1500	0251.4	044.9	45.14	
340.0	002.2000	0282.6	036.4	261.9	000.1500	0251.1	044.3	45.38	
341.0	002.2000	0285.0	036.5	262.2	000.1500	0250.7	043.7	45.63	
342.0	002.2000	0287.2	036.6	262.5	000.1500	0250.4	043.1	45.88	
343.0	002.2000	0288.9	036.7	262.8	000.1500	0250.1	042.5	46.13	
344.0	002.2000	0289.6	036.8	263.0	000.1500	0249.8	041.8	46.40	
345.0	002.2000	0289.7	036.8	263.1	000.1500	0249.7	041.2	46.67	
346.0	002.2000	0290.1	036.8	263.3	000.1500	0249.5	040.6	46.95	
347.0	002.2000	0291.6	036.9	263.5	000.1500	0249.4	039.9	47.23	
348.0	002.2000	0294.3	037.0	263.8	000.1500	0249.5	039.3	47.52	
349.0	002.2000	0297.3	037.2	264.1	000.1500	0249.8	038.7	47.82	
350.0	002.2000	0300.1	037.3	264.4	000.1500	0250.1	038.0	48.12	
351.0	002.2000	0302.5	037.5	264.7	000.1500	0250.5	037.4	48.44	
352.0	002.2000	0304.2	037.6	264.9	000.1500	0250.7	036.8	48.75	
353.0	002.2000	0305.6	037.6	265.0	000.1500	0250.9	036.1	49.07	
354.0	002.2000	0306.7	037.7	265.2	000.1500	0251.0	035.5	49.39	
355.0	002.2000	0307.9	037.8	265.3	000.1500	0251.2	034.8	49.71	
356.0	002.2000	0309.4	037.8	265.4	000.1500	0251.4	034.1	50.04	
357.0	002.2000	0310.8	037.9	265.5	000.1500	0251.6	033.5	50.37	
358.0	002.2000	0311.6	038.0	265.5	000.1500	0251.6	032.8	50.70	
359.0	002.2000	0312.5	038.0	265.6	000.1500	0251.6	032.2	51.03	
000.0	002.2000	0313.1	038.0	265.5	000.1500	0251.6	031.5	51.37	
001.0	002.2000	0313.8	038.1	265.5	000.1500	0251.5	030.8	51.73	
002.0	002.2000	0314.5	038.1	265.4	000.1500	0251.4	030.2	52.10	
003.0	002.2000	0314.9	038.1	265.3	000.1500	0251.2	029.5	52.48	
004.0	002.2000	0315.7	038.2	265.2	000.1500	0251.1	028.8	52.87	
005.0	002.2000	0316.9	038.3	265.1	000.1500	0250.9	028.2	53.28	
006.0	002.2000	0318.0	038.3	265.0	000.1500	0250.8	027.5	53.70	
007.0	002.2000	0318.2	038.3	264.7	000.1500	0250.4	026.9	54.13	
008.0	002.2000	0318.2	038.3	264.4	000.1500	0250.0	026.2	54.55	
009.0	002.2000	0318.2	038.3	264.0	000.1500	0249.7	025.6	54.99	
010.0	002.2000	0318.5	038.3	263.6	000.1500	0249.4	024.9	55.44	
011.0	002.2000	0318.4	038.3	263.1	000.1500	0249.7	024.3	55.91	
012.0	002.2000	0317.9	038.3	262.5	000.1500	0250.4	023.7	56.39	
013.0	002.2000	0317.4	038.3	261.9	000.1500	0251.1	023.0	56.87	
014.0	002.2000	0317.2	038.3	261.3	000.1500	0251.3	022.4	57.35	

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
015.0	002.2000	0317.5	038.3	260.6	000.1500	0251.3	021.8	57.82
016.0	002.2000	0318.0	038.3	259.9	000.1500	0251.8	021.2	58.32
017.0	002.2000	0318.9	038.4	259.2	000.1500	0253.1	020.6	58.85
018.0	002.2000	0320.1	038.4	258.4	000.1500	0254.4	020.0	59.38
019.0	002.2000	0321.0	038.5	257.5	000.1500	0256.9	019.4	59.95
020.0	002.2000	0321.5	038.5	256.5	000.1500	0261.4	018.8	60.56
021.0	002.2000	0321.7	038.5	255.4	000.1500	0265.8	018.2	61.16
022.0	002.2000	0321.9	038.5	254.1	000.1500	0269.4	017.7	61.72
023.0	002.2000	0322.2	038.5	252.8	000.1500	0272.3	017.2	62.24
024.0	002.2000	0322.7	038.6	251.3	000.1500	0274.9	016.6	62.76
025.0	002.2000	0323.1	038.6	249.7	000.1500	0278.4	016.1	63.28
026.0	002.2000	0323.0	038.6	248.0	000.1500	0284.1	015.7	63.83
027.0	002.2000	0322.4	038.6	246.0	000.1500	0290.5	015.3	64.36
028.0	002.2000	0321.8	038.5	243.9	000.1500	0295.6	014.9	64.78
029.0	002.2000	0321.4	038.5	241.7	000.1500	0300.5	014.5	65.35
030.0	002.2000	0321.3	038.5	239.4	000.1500	0305.1	014.2	65.89
031.0	002.2000	0321.2	038.5	236.9	000.1500	0305.7	013.9	66.30
032.0	002.2000	0321.0	038.5	234.4	000.1500	0296.5	013.6	66.37
033.0	002.2000	0320.4	038.4	231.7	000.1500	0289.5	013.4	66.43
034.0	002.2000	0319.5	038.4	228.9	000.1500	0286.3	013.3	66.52
035.0	002.2000	0318.4	038.3	226.0	000.1500	0285.9	013.2	66.63
036.0	002.2000	0317.4	038.3	223.1	000.1500	0289.8	013.2	66.82
037.0	002.2000	0316.7	038.2	220.2	000.1500	0305.0	013.1	67.30
038.0	002.2000	0316.1	038.2	217.3	000.1500	0327.1	013.2	67.88
039.0	002.2000	0315.8	038.2	214.4	000.1500	0341.2	013.2	68.19
040.0	002.2000	0315.8	038.2	211.5	000.1500	0352.8	013.3	68.39
041.0	002.2000	0316.4	038.2	208.7	000.1500	0332.4	013.4	67.73
042.0	002.2000	0317.8	038.3	205.9	000.1500	0288.3	013.5	66.35
043.0	002.2000	0319.9	038.4	203.0	000.1500	0256.2	013.6	65.12
044.0	002.2000	0322.7	038.6	200.2	000.1500	0226.8	013.7	63.91
045.0	002.2000	0326.1	038.7	197.3	000.1500	0207.5	013.8	62.97
046.0	002.2000	0329.8	039.0	194.5	000.1500	0202.5	014.0	62.56
047.0	002.2000	0334.0	039.2	191.7	000.1500	0200.2	014.2	62.22
048.0	002.2000	0338.2	039.4	188.9	000.1500	0227.5	014.4	63.03
049.0	002.2000	0341.9	039.6	186.4	000.1500	0243.0	014.7	63.24
050.0	002.2000	0344.8	039.8	184.1	000.1500	0241.4	015.1	63.06
051.0	002.2000	0346.8	039.9	182.0	000.1500	0248.5	015.5	62.90
052.0	002.2000	0348.3	039.9	180.2	000.1500	0254.0	016.0	62.67
053.0	002.2000	0349.7	040.0	178.5	000.1500	0264.3	016.5	62.55
054.0	002.2000	0350.9	040.1	177.0	000.1500	0274.3	017.1	62.40
055.0	002.2000	0351.9	040.1	175.6	000.1500	0283.2	017.6	62.19
056.0	002.2000	0352.7	040.2	174.4	000.1500	0287.9	018.2	61.84
057.0	002.2000	0353.1	040.2	173.4	000.1500	0292.4	018.8	61.46
058.0	002.2000	0352.7	040.2	172.5	000.1500	0296.0	019.5	61.04
059.0	002.2000	0351.7	040.1	171.9	000.1500	0299.0	020.1	60.60
060.0	002.2000	0350.1	040.0	171.4	000.1500	0301.2	020.8	60.12
061.0	002.2000	0348.8	040.0	170.9	000.1500	0303.6	021.5	59.65
062.0	002.2000	0348.1	039.9	170.4	000.1500	0306.5	022.1	59.21
063.0	002.2000	0348.0	039.9	169.8	000.1500	0309.6	022.8	58.79
064.0	002.2000	0348.2	039.9	169.4	000.1500	0312.3	023.5	58.36
065.0	002.2000	0348.9	040.0	168.8	000.1500	0314.8	024.1	57.94

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
066.0	002.2000	0349.9	040.0	168.4	000.1500	0317.0	024.8	57.52
067.0	002.2000	0350.9	040.1	167.9	000.1500	0318.6	025.5	57.09
068.0	002.2000	0352.2	040.1	167.5	000.1500	0319.6	026.2	56.65
069.0	002.2000	0354.3	040.2	167.0	000.1500	0320.4	026.8	56.22
070.0	002.2000	0356.7	040.4	166.6	000.1500	0321.0	027.5	55.79
071.0	002.2000	0358.8	040.5	166.2	000.1500	0321.4	028.2	55.37
072.0	002.2000	0360.0	040.5	166.0	000.1500	0321.6	028.9	54.94
073.0	002.2000	0360.5	040.6	165.9	000.1500	0321.6	029.6	54.53
074.0	002.2000	0361.2	040.6	165.8	000.1500	0321.7	030.3	54.13
075.0	002.2000	0361.7	040.6	165.7	000.1500	0321.7	031.0	53.74
076.0	002.2000	0361.6	040.6	165.7	000.1500	0321.7	031.7	53.37
077.0	002.2000	0361.0	040.6	165.8	000.1500	0321.7	032.4	53.01
078.0	002.2000	0359.5	040.5	165.9	000.1500	0321.6	033.1	52.67
079.0	002.2000	0357.7	040.4	166.2	000.1500	0321.5	033.8	52.32
080.0	002.2000	0356.0	040.3	166.4	000.1500	0321.3	034.5	51.98
081.0	002.2000	0354.7	040.3	166.6	000.1500	0321.1	035.2	51.64
082.0	002.2000	0352.6	040.2	166.8	000.1500	0320.7	035.9	51.30
083.0	002.2000	0349.1	040.0	167.2	000.1500	0320.1	036.6	50.96
084.0	002.2000	0345.8	039.8	167.6	000.1500	0319.5	037.3	50.63
085.0	002.2000	0343.4	039.7	167.9	000.1500	0318.6	038.0	50.29
086.0	002.2000	0343.8	039.7	168.0	000.1500	0318.3	038.6	49.97
087.0	002.2000	0344.1	039.7	168.1	000.1500	0317.8	039.3	49.64
088.0	002.2000	0345.0	039.8	168.2	000.1500	0317.4	040.0	49.32
089.0	002.2000	0347.1	039.9	168.3	000.1500	0317.3	040.7	49.00
090.0	002.2000	0350.4	040.0	168.2	000.1500	0317.5	041.4	48.69
091.0	002.2000	0353.8	040.2	168.2	000.1500	0317.6	042.2	48.38
092.0	002.2000	0357.3	040.4	168.2	000.1500	0317.7	042.9	48.07
093.0	002.2000	0360.4	040.6	168.2	000.1500	0317.5	043.6	47.76
094.0	002.2000	0363.3	040.7	168.3	000.1500	0317.3	044.3	47.45
095.0	002.2000	0365.9	040.8	168.4	000.1500	0316.9	045.1	47.14
096.0	002.2000	0367.7	040.9	168.5	000.1500	0316.2	045.8	46.82
097.0	002.2000	0369.4	041.0	168.7	000.1500	0315.4	046.5	46.51
098.0	002.2000	0298.7	037.3	173.4	000.1500	0292.3	046.1	45.96

10-10-2009 FCC NGDC 30 Sec Terrain Data

KUBS BLED20080319ABC

Channel = 218A

Max ERP = 0.15 kW

RCAMSL = 1032 M

N. Lat. 48 10 42.0

W. Lng. 117 04 59.0

Protected

60 dBu

KSFC.C

Channel = 220C3

Max ERP = 2.2 kW

RCAMSL = 958.42 M

N. Lat. 47 48 48.0

W. Lng. 117 30 23.0

Interfering

100 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
158.0	000.1500	0294.7	019.8	060.1	002.2000	0350.1	044.9	59.89	
159.0	000.1500	0305.1	020.1	060.4	002.2000	0349.5	044.4	60.03	
160.0	000.1500	0312.1	020.3	060.7	002.2000	0349.2	044.1	60.18	
161.0	000.1500	0316.7	020.5	060.8	002.2000	0349.1	043.7	60.34	
162.0	000.1500	0319.5	020.6	060.8	002.2000	0349.1	043.3	60.49	
163.0	000.1500	0321.0	020.6	060.8	002.2000	0349.1	043.0	60.64	
164.0	000.1500	0321.5	020.6	060.7	002.2000	0349.2	042.6	60.79	
165.0	000.1500	0321.7	020.6	060.6	002.2000	0349.3	042.3	60.95	
166.0	000.1500	0321.6	020.6	060.4	002.2000	0349.5	041.9	61.10	
167.0	000.1500	0320.5	020.6	060.3	002.2000	0349.8	041.6	61.25	
168.0	000.1500	0318.3	020.5	060.0	002.2000	0350.1	041.3	61.40	
169.0	000.1500	0314.1	020.4	059.7	002.2000	0350.6	041.0	61.54	
170.0	000.1500	0308.7	020.2	059.3	002.2000	0351.2	040.7	61.68	
171.0	000.1500	0302.9	020.0	058.9	002.2000	0351.9	040.4	61.81	
172.0	000.1500	0298.5	019.9	058.5	002.2000	0352.3	040.2	61.94	
173.0	000.1500	0294.0	019.7	058.1	002.2000	0352.6	039.9	62.06	
174.0	000.1500	0289.8	019.6	057.7	002.2000	0352.9	039.7	62.18	
175.0	000.1500	0286.0	019.5	057.3	002.2000	0353.0	039.4	62.29	
176.0	000.1500	0281.1	019.3	056.9	002.2000	0353.1	039.2	62.39	
177.0	000.1500	0274.4	019.1	056.3	002.2000	0352.9	039.0	62.47	
178.0	000.1500	0267.7	018.8	055.8	002.2000	0352.6	038.9	62.53	
179.0	000.1500	0261.2	018.6	055.2	002.2000	0352.2	038.7	62.58	
180.0	000.1500	0254.8	018.4	054.7	002.2000	0351.6	038.6	62.63	
181.0	000.1500	0251.5	018.2	054.3	002.2000	0351.2	038.4	62.70	
182.0	000.1500	0248.5	018.1	053.8	002.2000	0350.7	038.2	62.77	
183.0	000.1500	0245.9	018.0	053.4	002.2000	0350.2	038.0	62.84	
184.0	000.1500	0241.7	017.9	052.9	002.2000	0349.6	037.9	62.88	
185.0	000.1500	0238.7	017.8	052.5	002.2000	0349.0	037.7	62.94	
186.0	000.1500	0241.7	017.9	052.3	002.2000	0348.8	037.4	63.07	
187.0	000.1500	0244.4	018.0	052.1	002.2000	0348.5	037.1	63.20	
188.0	000.1500	0238.0	017.7	051.5	002.2000	0347.6	037.1	63.19	
189.0	000.1500	0226.7	017.3	050.7	002.2000	0346.2	037.2	63.10	
190.0	000.1500	0215.7	016.8	049.9	002.2000	0344.5	037.4	62.98	
191.0	000.1500	0205.7	016.4	049.1	002.2000	0342.4	037.5	62.86	

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
192.0	000.1500	0198.2	016.1	048.5	002.2000	0340.1	037.6	62.75
193.0	000.1500	0197.3	016.1	048.1	002.2000	0338.7	037.4	62.78
194.0	000.1500	0200.8	016.2	047.9	002.2000	0337.8	037.2	62.88
195.0	000.1500	0203.7	016.3	047.6	002.2000	0336.7	036.9	62.97
196.0	000.1500	0205.2	016.4	047.3	002.2000	0335.3	036.7	63.03
197.0	000.1500	0206.7	016.5	047.0	002.2000	0333.9	036.5	63.08
198.0	000.1500	0210.0	016.6	046.7	002.2000	0332.7	036.2	63.17
199.0	000.1500	0216.5	016.9	046.5	002.2000	0331.8	035.9	63.32
200.0	000.1500	0225.2	017.2	046.3	002.2000	0331.2	035.4	63.51
201.0	000.1500	0234.9	017.6	046.2	002.2000	0330.5	034.9	63.72
202.0	000.1500	0245.3	018.0	046.0	002.2000	0329.7	034.4	63.93
203.0	000.1500	0255.9	018.4	045.8	002.2000	0328.8	034.0	64.14
204.0	000.1500	0266.8	018.8	045.5	002.2000	0327.9	033.5	64.35
205.0	000.1500	0278.1	019.2	045.2	002.2000	0326.8	033.0	64.56
206.0	000.1500	0290.0	019.6	044.9	002.2000	0325.7	032.5	64.77
207.0	000.1500	0304.1	020.1	044.6	002.2000	0324.6	031.9	65.02
208.0	000.1500	0320.9	020.6	044.3	002.2000	0323.6	031.3	65.31
209.0	000.1500	0336.6	021.1	043.9	002.2000	0322.3	030.8	65.56
210.0	000.1500	0347.5	021.4	043.3	002.2000	0320.8	030.4	65.74
211.0	000.1500	0352.3	021.5	042.7	002.2000	0319.1	030.2	65.81
212.0	000.1500	0352.2	021.5	042.0	002.2000	0317.8	030.1	65.81
213.0	000.1500	0348.8	021.4	041.3	002.2000	0316.8	030.1	65.76
214.0	000.1500	0343.3	021.3	040.5	002.2000	0316.0	030.2	65.68
215.0	000.1500	0337.9	021.1	039.8	002.2000	0315.8	030.3	65.61
216.0	000.1500	0333.1	021.0	039.1	002.2000	0315.8	030.5	65.55
217.0	000.1500	0328.6	020.8	038.4	002.2000	0315.9	030.6	65.49
218.0	000.1500	0323.1	020.7	037.7	002.2000	0316.3	030.7	65.41
219.0	000.1500	0315.4	020.4	037.1	002.2000	0316.7	031.0	65.28
220.0	000.1500	0306.6	020.2	036.4	002.2000	0317.1	031.3	65.14
221.0	000.1500	0298.5	019.9	035.8	002.2000	0317.6	031.6	65.00
222.0	000.1500	0292.9	019.7	035.2	002.2000	0318.1	031.8	64.90
223.0	000.1500	0290.0	019.6	034.7	002.2000	0318.8	031.9	64.84
224.0	000.1500	0288.3	019.5	034.1	002.2000	0319.4	032.1	64.81
225.0	000.1500	0286.9	019.5	033.5	002.2000	0320.0	032.2	64.77
226.0	000.1500	0285.9	019.5	032.9	002.2000	0320.5	032.3	64.73
227.0	000.1500	0285.5	019.5	032.3	002.2000	0320.8	032.4	64.69
228.0	000.1500	0285.7	019.5	031.8	002.2000	0321.1	032.4	64.66
229.0	000.1500	0286.4	019.5	031.2	002.2000	0321.2	032.5	64.62
230.0	000.1500	0287.7	019.5	030.6	002.2000	0321.2	032.6	64.59
231.0	000.1500	0288.8	019.6	030.0	002.2000	0321.3	032.7	64.55
232.0	000.1500	0289.8	019.6	029.4	002.2000	0321.3	032.8	64.51
233.0	000.1500	0291.5	019.7	028.8	002.2000	0321.4	032.8	64.47
234.0	000.1500	0294.8	019.8	028.2	002.2000	0321.7	032.9	64.46
235.0	000.1500	0299.4	019.9	027.6	002.2000	0322.0	032.9	64.46
236.0	000.1500	0303.6	020.1	026.9	002.2000	0322.5	033.0	64.45
237.0	000.1500	0305.8	020.1	026.3	002.2000	0322.8	033.1	64.41
238.0	000.1500	0306.1	020.1	025.8	002.2000	0323.1	033.2	64.33
239.0	000.1500	0305.5	020.1	025.3	002.2000	0323.2	033.4	64.23
240.0	000.1500	0304.1	020.1	024.9	002.2000	0323.1	033.7	64.11
241.0	000.1500	0302.0	020.0	024.4	002.2000	0322.9	033.9	63.98
242.0	000.1500	0299.7	019.9	024.0	002.2000	0322.7	034.2	63.84

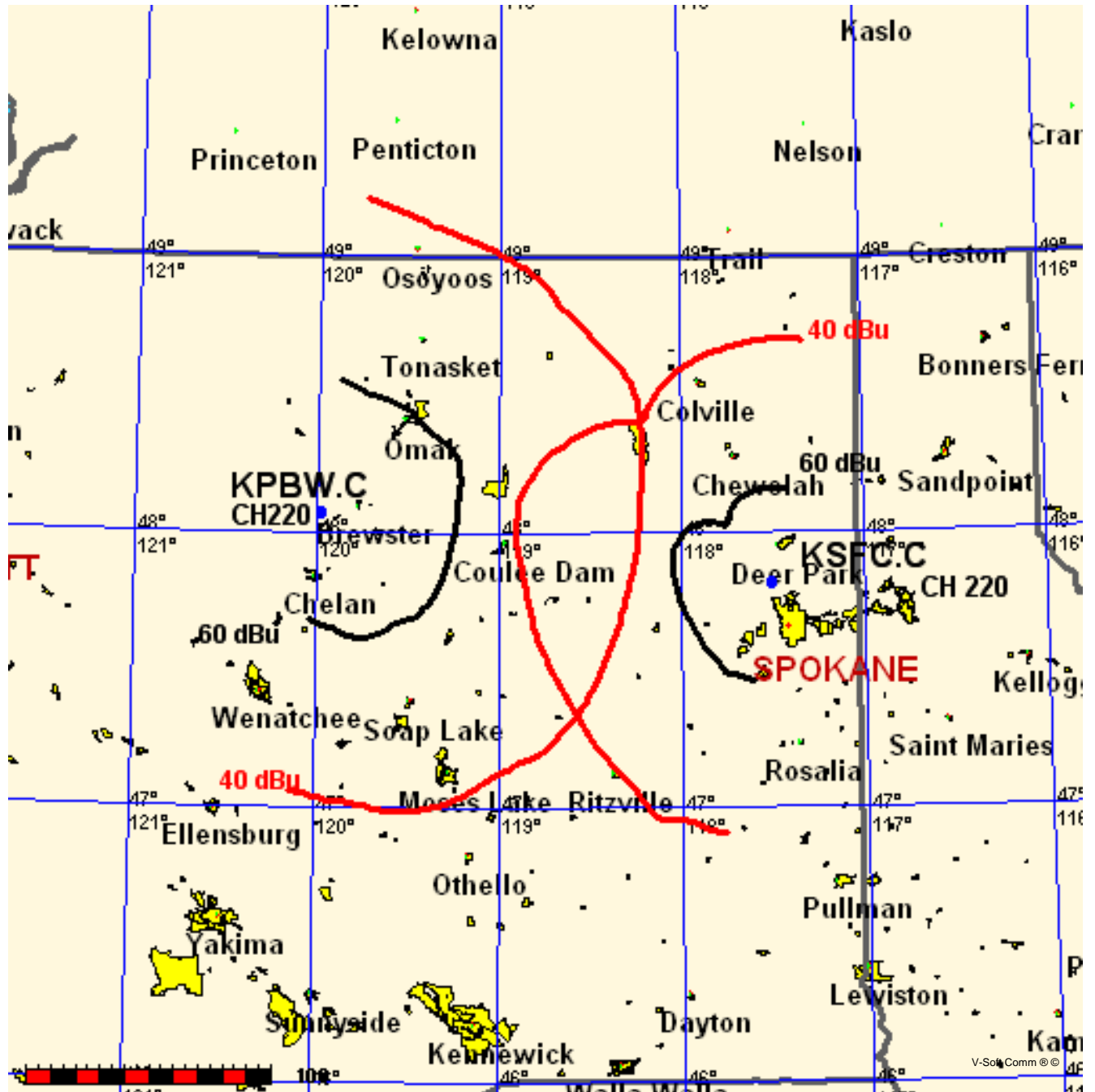
Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
243.0	000.1500	0297.5	019.9	023.7	002.2000	0322.5	034.5	63.71
244.0	000.1500	0295.3	019.8	023.3	002.2000	0322.3	034.8	63.57
245.0	000.1500	0293.1	019.7	023.0	002.2000	0322.2	035.0	63.43
246.0	000.1500	0290.5	019.6	022.7	002.2000	0322.0	035.3	63.28
247.0	000.1500	0287.5	019.5	022.4	002.2000	0322.0	035.7	63.13
248.0	000.1500	0284.0	019.4	022.1	002.2000	0321.9	036.0	62.98
249.0	000.1500	0280.5	019.3	021.9	002.2000	0321.8	036.3	62.82
250.0	000.1500	0277.7	019.2	021.6	002.2000	0321.8	036.6	62.67
251.0	000.1500	0275.5	019.1	021.4	002.2000	0321.8	036.9	62.53
252.0	000.1500	0273.6	019.0	021.1	002.2000	0321.7	037.2	62.39
253.0	000.1500	0271.8	019.0	020.9	002.2000	0321.7	037.5	62.25
254.0	000.1500	0269.7	018.9	020.7	002.2000	0321.6	037.8	62.11
255.0	000.1500	0267.0	018.8	020.5	002.2000	0321.6	038.1	61.96
256.0	000.1500	0263.5	018.7	020.4	002.2000	0321.6	038.5	61.80
257.0	000.1500	0259.4	018.5	020.3	002.2000	0321.6	038.8	61.64
258.0	000.1500	0255.3	018.4	020.2	002.2000	0321.5	039.2	61.48
259.0	000.1500	0253.5	018.3	020.1	002.2000	0321.5	039.5	61.34
260.0	000.1500	0251.6	018.2	019.9	002.2000	0321.4	039.8	61.20
261.0	000.1500	0251.2	018.2	019.7	002.2000	0321.4	040.1	61.07
262.0	000.1500	0250.9	018.2	019.5	002.2000	0321.3	040.4	60.94
263.0	000.1500	0249.8	018.2	019.3	002.2000	0321.2	040.7	60.80
264.0	000.1500	0249.7	018.2	019.2	002.2000	0321.1	041.0	60.67
265.0	000.1500	0250.8	018.2	018.9	002.2000	0320.9	041.2	60.55
266.0	000.1500	0252.3	018.3	018.7	002.2000	0320.7	041.5	60.43
267.0	000.1500	0253.9	018.3	018.4	002.2000	0320.5	041.8	60.30
268.0	000.1500	0254.7	018.4	018.2	002.2000	0320.3	042.1	60.17
269.0	000.1500	0253.6	018.3	018.1	002.2000	0320.2	042.4	60.03
270.0	000.1500	0251.2	018.2	018.1	002.2000	0320.2	042.7	59.89
271.0	000.1500	0248.8	018.1	018.1	002.2000	0320.2	043.0	59.75
272.0	000.1500	0246.3	018.0	018.1	002.2000	0320.2	043.4	59.60
273.0	000.1500	0243.5	017.9	018.1	002.2000	0320.2	043.7	59.47
274.0	000.1500	0239.5	017.8	018.2	002.2000	0320.3	044.0	59.33
275.0	000.1500	0236.7	017.7	018.2	002.2000	0320.3	044.4	59.19
276.0	000.1500	0233.3	017.5	018.3	002.2000	0320.4	044.7	59.06
277.0	000.1500	0229.7	017.4	018.4	002.2000	0320.5	045.0	58.92
278.0	000.1500	0372.3	022.1	012.5	002.2000	0317.6	044.7	58.96

Allocation Map, KFSC
Spokane Public Radio, Inc.

FMCommander Single Allocation Study - 10-10-2009 - FCC NGDC 30 Sec
KSFC.C's Overlaps (In= 14.2 km, Out= 23.98 km)

KSFC.C CH 220 C3
Lat= 47 48 48.0, Lng= 117 30 23.0
2.2 kW 334.8 M HAAT, 958.4 M COR
Prot.= 60 dBu, Intef.= 40 dBu

KPBW-C CH 220 C2 BNPED20071019AEH
Lat= 48 02 14.0, Lng= 119 59 07.0
1.0 kW 755.2 M HAAT, 1539 M COR
Prot.= 60 dBu, Intef.= 40 dBu



10-10-2009

FCC NGDC 30 Sec Terrain Data

FMOver Analysis

KSFC.C

Channel = 220C3

Max ERP = 2.2 kW

RCAMSL = 958.42 M

N. Lat. 47 48 48.0

W. Lng. 117 30 23.0

Protected

60 dBu

KPBW-C BNPED20071019AEH

Channel = 220C2

Max ERP = 1 kW

RCAMSL = 1539 M

N. Lat. 48 02 14.0

W. Lng. 119 59 07.0

Interfering

40 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
219.0	002.2000	0325.9	038.7	108.1	001.0000	0977.9	169.9	29.76	
220.0	002.2000	0324.9	038.7	108.0	001.0000	0977.5	169.4	29.88	
221.0	002.2000	0323.9	038.6	107.9	001.0000	0977.0	168.8	30.02	
222.0	002.2000	0322.6	038.6	107.8	001.0000	0976.6	168.2	30.15	
223.0	002.2000	0321.0	038.5	107.7	001.0000	0976.1	167.6	30.28	
224.0	002.2000	0319.3	038.4	107.5	001.0000	0975.7	167.0	30.41	
225.0	002.2000	0317.9	038.3	107.4	001.0000	0975.2	166.4	30.54	
226.0	002.2000	0317.1	038.3	107.3	001.0000	0974.8	165.9	30.67	
227.0	002.2000	0316.0	038.2	107.2	001.0000	0974.4	165.3	30.79	
228.0	002.2000	0314.5	038.1	107.0	001.0000	0973.9	164.7	30.92	
229.0	002.2000	0312.0	038.0	106.9	001.0000	0973.6	164.2	31.04	
230.0	002.2000	0308.8	037.8	106.7	001.0000	0973.2	163.8	31.15	
231.0	002.2000	0305.8	037.6	106.5	001.0000	0972.9	163.3	31.26	
232.0	002.2000	0303.8	037.5	106.4	001.0000	0972.7	162.8	31.37	
233.0	002.2000	0303.4	037.5	106.2	001.0000	0972.5	162.3	31.50	
234.0	002.2000	0303.5	037.5	106.1	001.0000	0972.3	161.7	31.63	
235.0	002.2000	0303.5	037.5	106.0	001.0000	0972.2	161.2	31.75	
236.0	002.2000	0303.2	037.5	105.8	001.0000	0972.1	160.7	31.88	
237.0	002.2000	0302.9	037.5	105.7	001.0000	0971.9	160.2	32.00	
238.0	002.2000	0302.3	037.5	105.5	001.0000	0971.8	159.7	32.11	
239.0	002.2000	0301.3	037.4	105.3	001.0000	0971.6	159.3	32.22	
240.0	002.2000	0300.3	037.4	105.2	001.0000	0971.5	158.8	32.33	
241.0	002.2000	0299.8	037.3	105.0	001.0000	0971.4	158.4	32.44	
242.0	002.2000	0299.6	037.3	104.8	001.0000	0971.4	157.9	32.55	
243.0	002.2000	0299.3	037.3	104.6	001.0000	0971.4	157.5	32.66	
244.0	002.2000	0299.4	037.3	104.5	001.0000	0971.4	157.0	32.77	
245.0	002.2000	0300.3	037.3	104.3	001.0000	0971.5	156.6	32.89	
246.0	002.2000	0302.1	037.4	104.1	001.0000	0971.7	156.1	33.01	
247.0	002.2000	0304.3	037.6	104.0	001.0000	0971.9	155.6	33.14	
248.0	002.2000	0306.2	037.7	103.8	001.0000	0972.1	155.1	33.26	
249.0	002.2000	0308.1	037.8	103.6	001.0000	0972.4	154.6	33.38	
250.0	002.2000	0309.7	037.9	103.5	001.0000	0972.7	154.1	33.50	
251.0	002.2000	0311.4	037.9	103.3	001.0000	0973.0	153.7	33.61	
252.0	002.2000	0313.2	038.0	103.1	001.0000	0973.3	153.2	33.73	
253.0	002.2000	0315.3	038.2	102.9	001.0000	0973.7	152.8	33.85	
254.0	002.2000	0317.7	038.3	102.7	001.0000	0974.1	152.3	33.96	
255.0	002.2000	0320.4	038.4	102.5	001.0000	0974.5	151.9	34.08	

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
256.0	002.2000	0322.7	038.6	102.3	001.0000	0975.0	151.4	34.20
257.0	002.2000	0324.7	038.7	102.1	001.0000	0975.5	151.0	34.31
258.0	002.2000	0326.4	038.8	101.9	001.0000	0976.1	150.7	34.41
259.0	002.2000	0327.6	038.8	101.7	001.0000	0976.8	150.3	34.50
260.0	002.2000	0328.1	038.9	101.4	001.0000	0977.6	150.0	34.58
261.0	002.2000	0328.2	038.9	101.2	001.0000	0978.5	149.7	34.66
262.0	002.2000	0329.1	038.9	101.0	001.0000	0979.4	149.5	34.74
263.0	002.2000	0331.0	039.0	100.7	001.0000	0980.4	149.1	34.84
264.0	002.2000	0333.1	039.1	100.5	001.0000	0981.4	148.8	34.93
265.0	002.2000	0335.3	039.2	100.3	001.0000	0982.4	148.5	35.02
266.0	002.2000	0337.2	039.3	100.0	001.0000	0983.3	148.2	35.10
267.0	002.2000	0338.2	039.4	099.8	001.0000	0984.2	148.0	35.17
268.0	002.2000	0340.2	039.5	099.5	001.0000	0984.9	147.7	35.25
269.0	002.2000	0343.5	039.7	099.3	001.0000	0985.5	147.4	35.34
270.0	002.2000	0346.8	039.9	099.0	001.0000	0986.0	147.1	35.42
271.0	002.2000	0350.2	040.0	098.8	001.0000	0986.4	146.8	35.50
272.0	002.2000	0353.4	040.2	098.5	001.0000	0986.8	146.5	35.58
273.0	002.2000	0356.6	040.4	098.2	001.0000	0987.3	146.3	35.65
274.0	002.2000	0359.2	040.5	098.0	001.0000	0987.9	146.0	35.71
275.0	002.2000	0362.4	040.7	097.7	001.0000	0988.6	145.8	35.77
276.0	002.2000	0367.9	040.9	097.4	001.0000	0989.3	145.5	35.86
277.0	002.2000	0372.9	041.2	097.1	001.0000	0989.9	145.2	35.94
278.0	002.2000	0376.8	041.3	096.9	001.0000	0990.4	145.0	36.00
279.0	002.2000	0379.8	041.5	096.6	001.0000	0990.7	144.9	36.04
280.0	002.2000	0383.9	041.7	096.3	001.0000	0991.1	144.7	36.08
281.0	002.2000	0387.9	041.8	096.0	001.0000	0991.5	144.6	36.12
282.0	002.2000	0391.1	042.0	095.7	001.0000	0992.0	144.5	36.15
283.0	002.2000	0392.7	042.1	095.4	001.0000	0992.4	144.5	36.16
284.0	002.2000	0394.7	042.1	095.1	001.0000	0992.7	144.5	36.16
285.0	002.2000	0398.3	042.3	094.8	001.0000	0993.2	144.4	36.18
286.0	002.2000	0400.9	042.4	094.5	001.0000	0993.6	144.4	36.19
287.0	002.2000	0402.3	042.5	094.2	001.0000	0994.1	144.5	36.17
288.0	002.2000	0401.5	042.5	093.9	001.0000	0994.5	144.7	36.13
289.0	002.2000	0399.3	042.4	093.7	001.0000	0995.0	145.0	36.06
290.0	002.2000	0396.5	042.2	093.4	001.0000	0995.5	145.3	35.98
291.0	002.2000	0393.1	042.1	093.1	001.0000	0996.0	145.6	35.89
292.0	002.2000	0390.1	041.9	092.9	001.0000	0996.4	146.0	35.80
293.0	002.2000	0387.2	041.8	092.6	001.0000	0997.2	146.3	35.72
294.0	002.2000	0384.4	041.7	092.4	001.0000	0998.1	146.7	35.63
295.0	002.2000	0382.0	041.6	092.1	001.0000	0999.2	147.0	35.55
296.0	002.2000	0379.7	041.5	091.9	001.0000	1000.2	147.4	35.46
297.0	002.2000	0377.2	041.4	091.6	001.0000	1001.1	147.8	35.37
298.0	002.2000	0374.0	041.2	091.4	001.0000	1002.0	148.2	35.26
299.0	002.2000	0369.4	041.0	091.2	001.0000	1002.8	148.7	35.14
300.0	002.2000	0363.4	040.7	091.0	001.0000	1003.6	149.3	35.00
301.0	002.2000	0356.0	040.3	090.8	001.0000	1004.3	149.9	34.83
302.0	002.2000	0348.3	039.9	090.7	001.0000	1004.9	150.6	34.67
303.0	002.2000	0341.8	039.6	090.5	001.0000	1005.6	151.3	34.51
304.0	002.2000	0335.2	039.2	090.4	001.0000	1006.2	151.9	34.35
305.0	002.2000	0328.8	038.9	090.2	001.0000	1006.8	152.6	34.19
306.0	002.2000	0322.0	038.5	090.1	001.0000	1007.3	153.3	34.02

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
307.0	002.2000	0314.8	038.1	090.0	001.0000	1007.8	154.0	33.85
308.0	002.2000	0307.2	037.7	089.8	001.0000	1008.2	154.7	33.67
309.0	002.2000	0298.7	037.3	089.8	001.0000	1008.6	155.4	33.49
310.0	002.2000	0290.1	036.8	089.7	001.0000	1008.9	156.2	33.30
311.0	002.2000	0281.5	036.3	089.6	001.0000	1009.2	157.0	33.11
312.0	002.2000	0271.8	035.7	089.6	001.0000	1009.4	157.8	32.91
313.0	002.2000	0261.6	035.1	089.5	001.0000	1009.5	158.7	32.70
314.0	002.2000	0250.5	034.4	089.6	001.0000	1009.5	159.6	32.47
315.0	002.2000	0238.6	033.7	089.6	001.0000	1009.3	160.6	32.24
316.0	002.2000	0225.9	032.8	089.7	001.0000	1009.0	161.6	31.98
317.0	002.2000	0213.8	031.9	089.7	001.0000	1008.6	162.6	31.72
318.0	002.2000	0201.5	030.9	089.9	001.0000	1008.2	163.7	31.46
319.0	002.2000	0189.4	030.0	090.0	001.0000	1007.7	164.7	31.21
320.0	002.2000	0181.6	029.4	090.0	001.0000	1007.6	165.5	31.03
321.0	002.2000	0181.6	029.4	089.9	001.0000	1008.1	165.9	30.95
322.0	002.2000	0188.2	029.9	089.6	001.0000	1009.1	166.0	30.94
323.0	002.2000	0195.9	030.5	089.4	001.0000	1010.2	166.0	30.93
324.0	002.2000	0202.8	031.0	089.1	001.0000	1011.3	166.1	30.92
325.0	002.2000	0209.8	031.5	088.8	001.0000	1012.4	166.2	30.90
326.0	002.2000	0216.9	032.1	088.6	001.0000	1013.5	166.4	30.88
327.0	002.2000	0223.3	032.6	088.3	001.0000	1014.6	166.6	30.85
328.0	002.2000	0229.0	033.0	088.1	001.0000	1015.6	166.8	30.80
329.0	002.2000	0234.2	033.4	087.9	001.0000	1016.5	167.1	30.73
330.0	002.2000	0239.4	033.7	087.7	001.0000	1017.3	167.4	30.66
331.0	002.2000	0245.1	034.1	087.5	001.0000	1018.2	167.8	30.59
332.0	002.2000	0251.1	034.5	087.3	001.0000	1019.3	168.1	30.52
333.0	002.2000	0256.7	034.8	087.1	001.0000	1020.6	168.5	30.44
334.0	002.2000	0261.7	035.1	086.9	001.0000	1021.9	168.9	30.36
335.0	002.2000	0266.3	035.4	086.7	001.0000	1023.3	169.4	30.27
336.0	002.2000	0270.4	035.6	086.6	001.0000	1024.5	169.9	30.17
337.0	002.2000	0274.0	035.9	086.4	001.0000	1025.6	170.4	30.07
338.0	002.2000	0277.2	036.0	086.3	001.0000	1026.5	170.9	29.96
339.0	002.2000	0298.7	037.3	085.8	001.0000	1029.8	171.1	29.94

10-10-2009 FCC NGDC 30 Sec Terrain Data

KPBW-C BNPED20071019AEH

Channel = 220C2

Max ERP = 1 kW

RCAMSL = 1539 M

N. Lat. 48 02 14.0

W. Lng. 119 59 07.0

Protected

60 dBu

KSFC.C

Channel = 220C3

Max ERP = 2.2 kW

RCAMSL = 958.42 M

N. Lat. 47 48 48.0

W. Lng. 117 30 23.0

Interfering

40 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
037.0	001.0000	0909.4	053.9	294.9	002.2000	0382.3	166.3	26.32	
038.0	001.0000	0921.2	054.1	294.9	002.2000	0382.2	165.2	26.53	
039.0	001.0000	0934.3	054.4	294.9	002.2000	0382.2	164.2	26.72	
040.0	001.0000	0947.8	054.7	294.9	002.2000	0382.2	163.2	26.91	
041.0	001.0000	0959.4	054.9	294.9	002.2000	0382.3	162.3	27.09	
042.0	001.0000	0968.4	055.1	294.8	002.2000	0382.4	161.3	27.28	
043.0	001.0000	0973.7	055.2	294.7	002.2000	0382.6	160.4	27.47	
044.0	001.0000	0973.6	055.2	294.6	002.2000	0382.9	159.5	27.65	
045.0	001.0000	0969.1	055.1	294.5	002.2000	0383.2	158.6	27.82	
046.0	001.0000	0962.2	055.0	294.3	002.2000	0383.7	157.8	27.99	
047.0	001.0000	0955.8	054.8	294.1	002.2000	0384.2	157.0	28.16	
048.0	001.0000	0950.7	054.7	293.9	002.2000	0384.7	156.2	28.33	
049.0	001.0000	0947.6	054.7	293.7	002.2000	0385.1	155.3	28.50	
050.0	001.0000	0946.2	054.6	293.6	002.2000	0385.6	154.5	28.67	
051.0	001.0000	0948.9	054.7	293.4	002.2000	0386.0	153.7	28.85	
052.0	001.0000	0956.6	054.8	293.3	002.2000	0386.4	152.8	29.03	
053.0	001.0000	0968.8	055.1	293.2	002.2000	0386.7	151.8	29.22	
054.0	001.0000	0983.6	055.4	293.1	002.2000	0387.0	150.9	29.41	
055.0	001.0000	1000.5	055.7	293.0	002.2000	0387.3	149.9	29.61	
056.0	001.0000	1018.5	056.0	292.9	002.2000	0387.6	148.9	29.81	
057.0	001.0000	1037.4	056.4	292.8	002.2000	0387.9	147.9	30.01	
058.0	001.0000	1056.8	056.7	292.7	002.2000	0388.3	146.9	30.22	
059.0	001.0000	1077.8	057.1	292.5	002.2000	0388.6	145.9	30.42	
060.0	001.0000	1101.1	057.5	292.4	002.2000	0388.9	144.9	30.63	
061.0	001.0000	1126.0	057.9	292.3	002.2000	0389.3	143.8	30.85	
062.0	001.0000	1152.2	058.4	292.1	002.2000	0389.7	142.8	31.07	
063.0	001.0000	1177.5	058.8	292.0	002.2000	0390.2	141.8	31.30	
064.0	001.0000	1199.8	059.1	291.8	002.2000	0390.7	140.8	31.54	
065.0	001.0000	1217.9	059.4	291.6	002.2000	0391.4	139.9	31.76	
066.0	001.0000	1232.2	059.6	291.3	002.2000	0392.1	139.0	31.99	
067.0	001.0000	1242.4	059.7	291.1	002.2000	0393.0	138.2	32.20	
068.0	001.0000	1249.4	059.8	290.8	002.2000	0393.9	137.4	32.41	
069.0	001.0000	1253.3	059.8	290.5	002.2000	0395.0	136.7	32.62	
070.0	001.0000	1252.7	059.8	290.1	002.2000	0396.1	136.1	32.81	

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
071.0	001.0000	1247.1	059.8	289.7	002.2000	0397.3	135.5	32.99
072.0	001.0000	1235.3	059.6	289.3	002.2000	0398.4	135.0	33.14
073.0	001.0000	1220.5	059.4	288.9	002.2000	0399.5	134.6	33.28
074.0	001.0000	1203.8	059.1	288.5	002.2000	0400.4	134.2	33.40
075.0	001.0000	1188.9	058.9	288.1	002.2000	0401.3	133.8	33.52
076.0	001.0000	1177.6	058.8	287.7	002.2000	0402.0	133.5	33.64
077.0	001.0000	1167.5	058.6	287.3	002.2000	0402.3	133.1	33.74
078.0	001.0000	1153.1	058.4	286.8	002.2000	0402.1	132.8	33.81
079.0	001.0000	1135.3	058.1	286.4	002.2000	0401.6	132.6	33.84
080.0	001.0000	1117.9	057.8	285.9	002.2000	0400.7	132.5	33.86
081.0	001.0000	1100.7	057.5	285.5	002.2000	0399.7	132.3	33.87
082.0	001.0000	1081.4	057.2	285.0	002.2000	0398.4	132.2	33.84
083.0	001.0000	1063.2	056.9	284.6	002.2000	0396.7	132.2	33.81
084.0	001.0000	1047.2	056.6	284.1	002.2000	0395.1	132.1	33.78
085.0	001.0000	1035.9	056.4	283.7	002.2000	0393.9	132.0	33.77
086.0	001.0000	1028.6	056.2	283.3	002.2000	0393.1	131.9	33.78
087.0	001.0000	1021.1	056.1	282.8	002.2000	0392.4	131.8	33.80
088.0	001.0000	1016.0	056.0	282.4	002.2000	0391.8	131.6	33.81
089.0	001.0000	1011.7	055.9	282.0	002.2000	0391.0	131.5	33.82
090.0	001.0000	1007.6	055.8	281.6	002.2000	0389.9	131.4	33.82
091.0	001.0000	1003.6	055.8	281.1	002.2000	0388.5	131.3	33.80
092.0	001.0000	0999.7	055.7	280.7	002.2000	0386.7	131.2	33.76
093.0	001.0000	0996.2	055.6	280.3	002.2000	0385.0	131.2	33.72
094.0	001.0000	0994.5	055.6	279.9	002.2000	0383.3	131.2	33.68
095.0	001.0000	0992.9	055.6	279.4	002.2000	0381.5	131.1	33.64
096.0	001.0000	0991.5	055.5	279.0	002.2000	0379.9	131.1	33.60
097.0	001.0000	0990.2	055.5	278.6	002.2000	0378.6	131.1	33.55
098.0	001.0000	0987.8	055.5	278.2	002.2000	0377.4	131.2	33.50
099.0	001.0000	0986.0	055.4	277.7	002.2000	0375.8	131.2	33.44
100.0	001.0000	0983.4	055.4	277.3	002.2000	0374.2	131.4	33.36
101.0	001.0000	0979.3	055.3	276.9	002.2000	0372.5	131.5	33.27
102.0	001.0000	0975.8	055.2	276.5	002.2000	0370.5	131.7	33.17
103.0	001.0000	0973.5	055.2	276.1	002.2000	0368.4	131.9	33.06
104.0	001.0000	0971.8	055.1	275.7	002.2000	0366.1	132.1	32.94
105.0	001.0000	0971.4	055.1	275.3	002.2000	0363.8	132.2	32.82
106.0	001.0000	0972.2	055.2	274.9	002.2000	0361.7	132.4	32.71
107.0	001.0000	0973.9	055.2	274.4	002.2000	0360.4	132.6	32.62
108.0	001.0000	0977.6	055.3	274.0	002.2000	0359.3	132.8	32.54
109.0	001.0000	0982.8	055.4	273.6	002.2000	0358.2	133.0	32.47
110.0	001.0000	0989.2	055.5	273.2	002.2000	0357.1	133.1	32.39
111.0	001.0000	0995.3	055.6	272.8	002.2000	0356.0	133.3	32.31
112.0	001.0000	1001.0	055.7	272.4	002.2000	0354.8	133.6	32.21
113.0	001.0000	1006.7	055.8	272.0	002.2000	0353.3	133.8	32.10
114.0	001.0000	1012.4	055.9	271.6	002.2000	0352.0	134.1	32.00
115.0	001.0000	1018.6	056.0	271.2	002.2000	0350.8	134.4	31.89
116.0	001.0000	1025.3	056.2	270.8	002.2000	0349.4	134.7	31.77
117.0	001.0000	1033.1	056.3	270.4	002.2000	0348.1	135.1	31.66
118.0	001.0000	1041.7	056.5	270.0	002.2000	0346.8	135.4	31.54
119.0	001.0000	1050.3	056.6	269.6	002.2000	0345.5	135.8	31.42
120.0	001.0000	1058.2	056.8	269.2	002.2000	0344.2	136.2	31.29
121.0	001.0000	1065.4	056.9	268.8	002.2000	0342.9	136.6	31.16

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
122.0	001.0000	1073.0	057.0	268.5	002.2000	0341.7	137.1	31.02
123.0	001.0000	1081.1	057.2	268.1	002.2000	0340.4	137.5	30.89
124.0	001.0000	1089.5	057.3	267.7	002.2000	0339.4	138.0	30.75
125.0	001.0000	1097.8	057.5	267.3	002.2000	0338.6	138.5	30.62
126.0	001.0000	1106.0	057.6	267.0	002.2000	0338.2	139.1	30.49
127.0	001.0000	1112.3	057.7	266.7	002.2000	0337.9	139.6	30.36
128.0	001.0000	1115.4	057.8	266.3	002.2000	0337.6	140.3	30.22
129.0	001.0000	1114.0	057.7	266.0	002.2000	0337.2	141.0	30.06
130.0	001.0000	1109.1	057.7	265.8	002.2000	0336.8	141.8	29.88
131.0	001.0000	1102.3	057.5	265.5	002.2000	0336.4	142.6	29.71
132.0	001.0000	1097.1	057.4	265.3	002.2000	0335.9	143.4	29.53
133.0	001.0000	1096.7	057.4	265.0	002.2000	0335.4	144.1	29.37
134.0	001.0000	1101.2	057.5	264.7	002.2000	0334.8	144.9	29.21
135.0	001.0000	1105.5	057.6	264.5	002.2000	0334.2	145.6	29.05
136.0	001.0000	1106.1	057.6	264.2	002.2000	0333.6	146.4	28.88
137.0	001.0000	1100.4	057.5	264.0	002.2000	0333.2	147.3	28.69
138.0	001.0000	1087.5	057.3	263.9	002.2000	0332.8	148.2	28.50
139.0	001.0000	1066.5	056.9	263.8	002.2000	0332.6	149.2	28.29
140.0	001.0000	1039.2	056.4	263.7	002.2000	0332.5	150.3	28.08
141.0	001.0000	1012.4	055.9	263.7	002.2000	0332.4	151.4	27.86
142.0	001.0000	0990.1	055.5	263.7	002.2000	0332.3	152.5	27.66
143.0	001.0000	0970.0	055.1	263.6	002.2000	0332.2	153.5	27.46
144.0	001.0000	0952.9	054.8	263.5	002.2000	0332.1	154.5	27.26
145.0	001.0000	0938.7	054.5	263.5	002.2000	0332.0	155.5	27.08
146.0	001.0000	0929.6	054.3	263.4	002.2000	0331.8	156.4	26.90
147.0	001.0000	0924.5	054.2	263.3	002.2000	0331.5	157.3	26.72
148.0	001.0000	0924.0	054.2	263.1	002.2000	0331.3	158.2	26.55
149.0	001.0000	0927.6	054.3	263.0	002.2000	0330.9	159.0	26.39
150.0	001.0000	0933.6	054.4	262.8	002.2000	0330.6	159.9	26.23
151.0	001.0000	0938.9	054.5	262.6	002.2000	0330.3	160.7	26.06
152.0	001.0000	0941.9	054.6	262.5	002.2000	0330.0	161.6	25.90
153.0	001.0000	0942.2	054.6	262.4	002.2000	0329.8	162.5	25.73
154.0	001.0000	0938.4	054.5	262.3	002.2000	0329.7	163.4	25.56
155.0	001.0000	0932.2	054.4	262.3	002.2000	0329.6	164.4	25.39
156.0	001.0000	0927.9	054.3	262.2	002.2000	0329.5	165.3	25.22
157.0	001.0000	0879.3	053.2	262.5	002.2000	0330.0	166.5	25.03