

Doug Vernier, Telecommunications Consultants  
401 Main St., Ste 213, Cedar Falls, IA 50613

Contour-to-Contour Tabular Allocations Study

Spokane Public Radio, Inc.

REFERENCE  
47 43 54.0 N.  
116 43 45.1 W.

CH# 262D - 100.3 MHz, Pwr= 0.004 kW, HAAT= 450.4 M, COR= 1261 M  
Average Protected F(50-50)= 9.29 km  
Omni-directional

DISPLAY DATES  
DATA 08-20-13  
SEARCH 08-20-13

CH CITY	CALL	TYPE STATE	ANT STATE	AZI <--	DIST FILE #	LAT LNG	PWR(kW) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*OUT* (Overlap in km)
260C Spokane	KXLY-FM	CP	NCX WA	245.5 65.3	19.27 BPH20111101AJI	47 39 34.0 116 57 48.0	90.000 643	15.1 1455	96.0 Queenb Radio, Inc.	-76.9* <***
260C Spokane	KXLY-FM	LIC	_C_ WA	306.5 126.2	35.61 BMLH19971023KH	47 55 18.0 117 06 48.0	37.000 914	10.2 1813	84.0 Queenb Radio, Inc.	-48.6* <***
262D Coeur D' alene	1550737	APP	_C_ ID	206.9 26.9	4.39 BNPFT20030317AGY	47 41 47.0 116 45 21.0	0.050	27.3 888	8.2 Spokane Public Radio, Inc.	-42.3*
262D Spokane, Etc.	K262AG	LIC	DCN WA	255.5 75.1	45.20 BLFT19980323TD	47 37 43.0 117 18 48.0	0.003 171	20.8 853	6.0 Spokane Radio, Inc.	0.2
264D Coeur D Alene	1568099	APP	_C_ ID	176.5 356.5	12.90 BNPFT20130808ABJ	47 36 57.0 116 43 07.0	0.010	0.2 904	5.3 Edgewater Broadcasting, In	5.1
264D Coeur D Alene	1549391	APP	_C_ ID	176.5 356.5	12.90 BNPFT20030317EQI	47 36 57.0 116 43 07.0	0.010	0.2 904	5.3 Edgewater Broadcasting, In	5.1
262D Deer Park	1551077	APP	_C_ WA	277.3 96.6	71.01 BNPFT20030317MJJ	47 48 33.0 117 40 21.0	0.030	37.2 741	10.3 Northwest Community Radio	20.4
263C3 Troy	KQZB	LIC	NCX ID	187.9 7.8	103.25 BLH20080522ABE	46 48 42.0 116 54 59.0	0.900 487	63.1 1389	40.9 Paci fic Empire Radio Corp	46.1

Terrain database is USGS 03 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= West Zone, Co to 3rd adjacent.  
All separation margins (if shown) include rounding  
Ant Column: (D= DA Standard, Z= DA 73.215, N= Not DA 73.215, \_= Omni), Polarization (C,H,V,E), Beamtilt(Y,N,X)  
Incoming contour overlap is ignored.  
\*\*\*affixed to 'IN' or 'OUT' values = site inside protected contour.  
<\*\*\* Protected using U/D, see satellite map and 2nd adjacent interference calculations on pages 19 through 21.

## HOW TO READ THE FM COMPUTER PRINT-OUT

### Translator Reference Station

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. The 60 dBu protected contour is predicted from the Commission's F(50-50) table. 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.

All distances are derived by the method detailed in Sec. 73.208 of the Rules and Regulations as amended in Docket 80-90. The column labeled "\* OUT \*" shows the greatest distance in kilometers of overlap (or smallest distance 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. Since translators are able to receive interference there is no "In" or incoming column in this report.

Listed antenna heights and power are the specific antenna heights and power from the FCC database.

Under the "AZI" column, the first row of numbers indicate the True North azimuths 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. Bearings are calculated using spherical trigonometry.

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 the minimum spacings the "OUT" columns change its significance. The letter "R" stands for the minimum **required** distance in kilometers, while the letter "M" in the next column displays the **available clear space** separation 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 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.

Contour-to-Contour Single Channel Study - K262AG  
Spokane Public Radio, Inc.

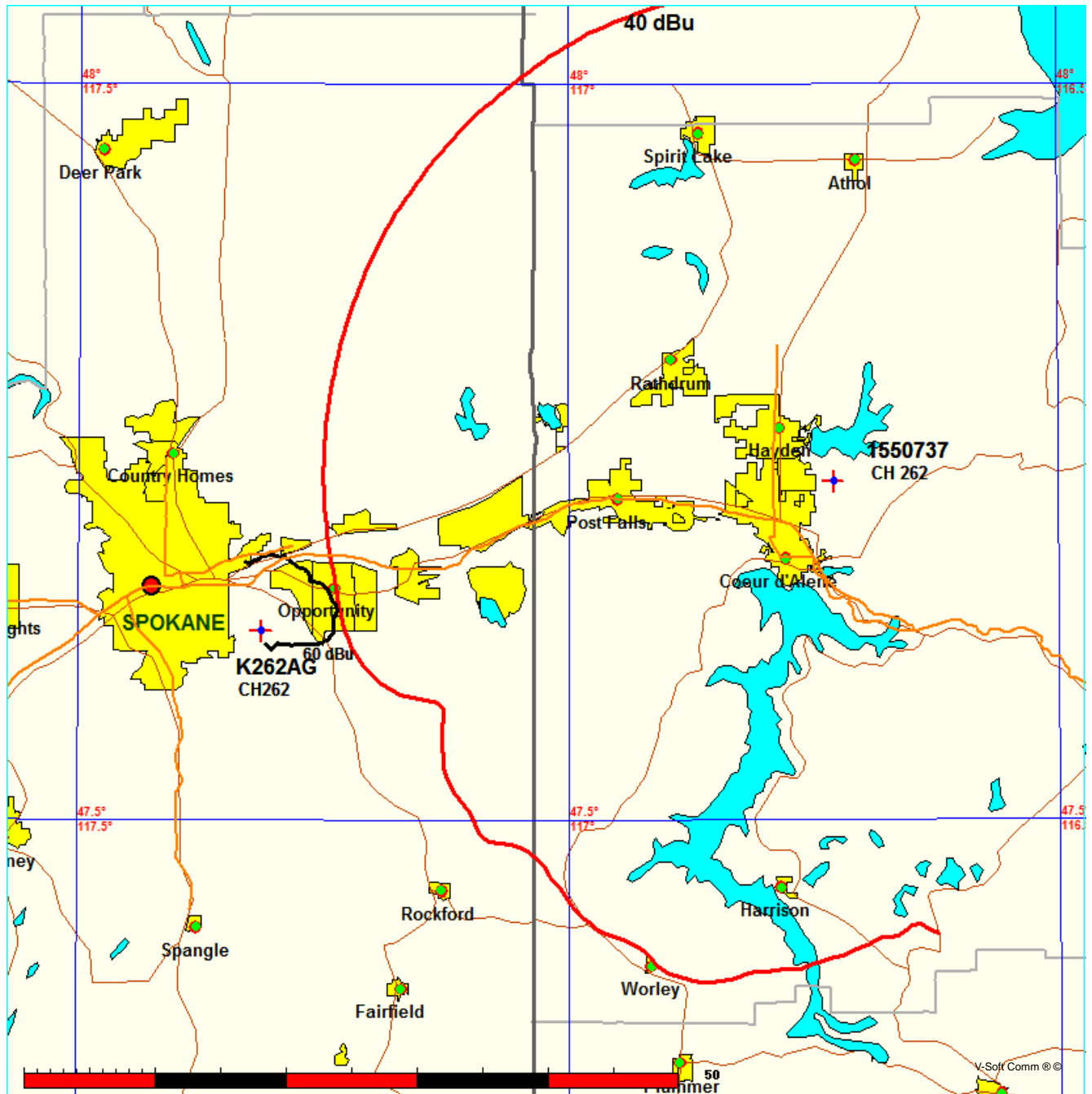
FMCommander Single Allocation Study - 08-21-2013 - USGS 03 SEC  
1550737's Overlaps (In= 14.46 km, Out= 0.22 km)

1550737 CH 262 D

Lat= 47 43 54.0, Lng= 116 43 45.1  
0.004 kW 450.4 M HAAT, 1261 M COR  
Prot.= 60 dBu, Intef.= 40 dBu

K262AG CH 262 D DA BLFT19980323TD

Lat= 47 37 43.0, Lng= 117 18 48.0  
0.003 kW 171 M HAAT, 853 M COR  
Prot.= 60 dBu, Intef.= 40 dBu



08-21-2013

Terrain Data: USGS 03 SEC

FMOver Analysis

K262AG BLFT19980323TD

1550737

Channel = 262D

Max ERP = 0.003 kW

RCAMSL = 853 M

N. Lat. 47 37 43.0

W. Lng. 117 18 48.0

Protected

60 dBu

Channel = 262D

Max ERP = 0.004 kW

RCAMSL = 1261 M

N. Lat. 47 43 54.0

W. Lng. 116 43 45.1

Interfering

40 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
015.0	000.0025	0209.5	005.7	262.2	000.0040	0573.7	042.6	38.49	
016.0	000.0025	0214.1	005.8	262.3	000.0040	0573.7	042.5	38.53	
017.0	000.0025	0216.0	005.9	262.3	000.0040	0573.7	042.4	38.58	
018.0	000.0025	0214.6	005.8	262.2	000.0040	0573.7	042.3	38.61	
019.0	000.0025	0212.0	005.8	262.1	000.0040	0573.7	042.2	38.64	
020.0	000.0026	0206.8	005.8	262.0	000.0040	0573.7	042.2	38.67	
021.0	000.0026	0203.0	005.7	261.9	000.0040	0573.7	042.1	38.70	
022.0	000.0026	0200.1	005.7	261.8	000.0040	0573.6	042.0	38.73	
023.0	000.0026	0196.0	005.7	261.6	000.0040	0573.6	042.0	38.75	
024.0	000.0026	0193.7	005.6	261.5	000.0040	0573.6	041.9	38.78	
025.0	000.0026	0193.7	005.6	261.5	000.0040	0573.6	041.8	38.81	
026.0	000.0026	0191.8	005.6	261.4	000.0040	0573.6	041.7	38.84	
027.0	000.0026	0189.0	005.6	261.3	000.0040	0573.6	041.7	38.87	
028.0	000.0027	0186.9	005.6	261.2	000.0040	0573.6	041.6	38.89	
029.0	000.0027	0184.7	005.6	261.1	000.0040	0573.6	041.5	38.92	
030.0	000.0027	0182.5	005.5	261.0	000.0040	0573.6	041.5	38.94	
031.0	000.0027	0181.9	005.5	260.9	000.0040	0573.6	041.4	38.97	
032.0	000.0027	0182.9	005.6	260.8	000.0040	0573.6	041.3	39.01	
033.0	000.0027	0188.2	005.6	260.8	000.0040	0573.6	041.2	39.05	
034.0	000.0027	0190.2	005.7	260.7	000.0040	0573.6	041.1	39.09	
035.0	000.0027	0190.4	005.7	260.6	000.0040	0573.6	041.0	39.12	
036.0	000.0027	0190.4	005.7	260.5	000.0040	0573.5	041.0	39.15	
037.0	000.0027	0189.6	005.7	260.4	000.0040	0573.5	040.9	39.18	
038.0	000.0028	0186.8	005.6	260.3	000.0040	0573.5	040.8	39.20	
039.0	000.0028	0184.7	005.6	260.2	000.0040	0573.5	040.8	39.22	
040.0	000.0028	0180.9	005.6	260.0	000.0040	0573.5	040.8	39.23	
041.0	000.0028	0176.4	005.5	259.9	000.0040	0573.5	040.8	39.23	
042.0	000.0028	0169.0	005.4	259.7	000.0040	0573.5	040.8	39.22	
043.0	000.0028	0165.7	005.4	259.5	000.0040	0573.5	040.8	39.23	
044.0	000.0028	0161.3	005.3	259.4	000.0040	0573.5	040.8	39.23	
045.0	000.0028	0157.3	005.2	259.2	000.0040	0573.5	040.8	39.23	
046.0	000.0028	0163.1	005.3	259.2	000.0040	0573.5	040.6	39.28	
047.0	000.0028	0168.9	005.4	259.1	000.0040	0573.5	040.5	39.33	
048.0	000.0028	0173.3	005.5	259.1	000.0040	0573.5	040.4	39.37	

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
049.0	000.0028	0179.9	005.6	259.0	000.0040	0573.5	040.3	39.43
050.0	000.0028	0187.0	005.6	259.0	000.0040	0573.5	040.2	39.48
051.0	000.0028	0191.5	005.7	258.9	000.0040	0573.5	040.1	39.52
052.0	000.0028	0195.4	005.7	258.8	000.0040	0573.6	040.0	39.55
053.0	000.0027	0199.5	005.8	258.7	000.0040	0573.6	039.9	39.59
054.0	000.0027	0202.8	005.8	258.6	000.0040	0573.6	039.8	39.62
055.0	000.0027	0207.0	005.9	258.4	000.0040	0573.7	039.7	39.65
056.0	000.0027	0211.4	005.9	258.3	000.0040	0573.8	039.7	39.69
057.0	000.0027	0213.2	005.9	258.2	000.0040	0573.9	039.6	39.72
058.0	000.0027	0212.8	005.9	258.1	000.0040	0574.2	039.6	39.73
059.0	000.0027	0212.0	005.9	257.9	000.0040	0574.6	039.6	39.75
060.0	000.0027	0211.2	005.9	257.8	000.0040	0575.1	039.5	39.76
061.0	000.0027	0211.4	005.9	257.6	000.0040	0575.4	039.5	39.78
062.0	000.0027	0211.4	005.9	257.5	000.0040	0575.7	039.5	39.79
063.0	000.0026	0211.0	005.9	257.3	000.0040	0575.9	039.5	39.80
064.0	000.0026	0211.3	005.9	257.2	000.0040	0576.1	039.5	39.81
065.0	000.0026	0211.8	005.9	257.0	000.0040	0576.2	039.4	39.82
066.0	000.0026	0211.4	005.9	256.9	000.0040	0576.2	039.4	39.83
067.0	000.0026	0211.1	005.8	256.7	000.0040	0576.2	039.4	39.83
068.0	000.0026	0214.1	005.9	256.6	000.0040	0576.3	039.4	39.85
069.0	000.0026	0218.5	005.9	256.5	000.0040	0576.3	039.3	39.88
070.0	000.0026	0222.1	006.0	256.3	000.0040	0576.3	039.3	39.90
071.0	000.0025	0224.3	006.0	256.2	000.0040	0576.2	039.2	39.90
072.0	000.0025	0225.5	006.0	256.0	000.0040	0576.2	039.2	39.91
073.0	000.0025	0226.2	006.0	255.9	000.0040	0576.3	039.2	39.91
074.0	000.0025	0226.8	006.0	255.7	000.0040	0576.3	039.2	39.91
075.0	000.0025	0226.8	006.0	255.5	000.0040	0576.4	039.2	39.91
076.0	000.0025	0223.7	005.9	255.4	000.0040	0576.5	039.3	39.89
077.0	000.0024	0219.4	005.8	255.3	000.0040	0576.5	039.4	39.86
078.0	000.0024	0216.4	005.8	255.1	000.0040	0576.6	039.4	39.84
079.0	000.0024	0211.8	005.7	255.0	000.0040	0576.8	039.5	39.81
080.0	000.0024	0206.2	005.6	254.8	000.0040	0577.0	039.6	39.78
081.0	000.0024	0200.3	005.6	254.7	000.0040	0577.2	039.7	39.74
082.0	000.0023	0199.5	005.5	254.6	000.0040	0577.5	039.7	39.73
083.0	000.0023	0202.4	005.5	254.4	000.0040	0577.8	039.7	39.73
084.0	000.0023	0203.7	005.5	254.3	000.0040	0578.0	039.7	39.73
085.0	000.0022	0206.2	005.5	254.2	000.0040	0578.2	039.7	39.73
086.0	000.0022	0207.6	005.5	254.0	000.0040	0578.3	039.8	39.72
087.0	000.0022	0207.8	005.5	253.9	000.0040	0578.3	039.8	39.71
088.0	000.0022	0209.8	005.5	253.8	000.0040	0578.3	039.8	39.70
089.0	000.0021	0211.3	005.5	253.6	000.0040	0578.2	039.9	39.68
090.0	000.0021	0212.9	005.5	253.5	000.0040	0578.1	039.9	39.67
091.0	000.0021	0213.6	005.5	253.4	000.0040	0578.0	039.9	39.65
092.0	000.0020	0214.2	005.5	253.3	000.0040	0577.9	040.0	39.62
093.0	000.0020	0213.4	005.4	253.1	000.0040	0577.8	040.1	39.59
094.0	000.0019	0210.5	005.4	253.1	000.0040	0577.7	040.2	39.55
095.0	000.0019	0207.5	005.3	253.0	000.0040	0577.6	040.3	39.51
096.0	000.0018	0206.6	005.2	252.9	000.0040	0577.5	040.3	39.47
097.0	000.0018	0205.1	005.2	252.8	000.0040	0577.4	040.4	39.44
098.0	000.0018	0199.2	005.1	252.7	000.0040	0577.4	040.6	39.38
099.0	000.0017	0191.2	005.0	252.7	000.0040	0577.3	040.7	39.32

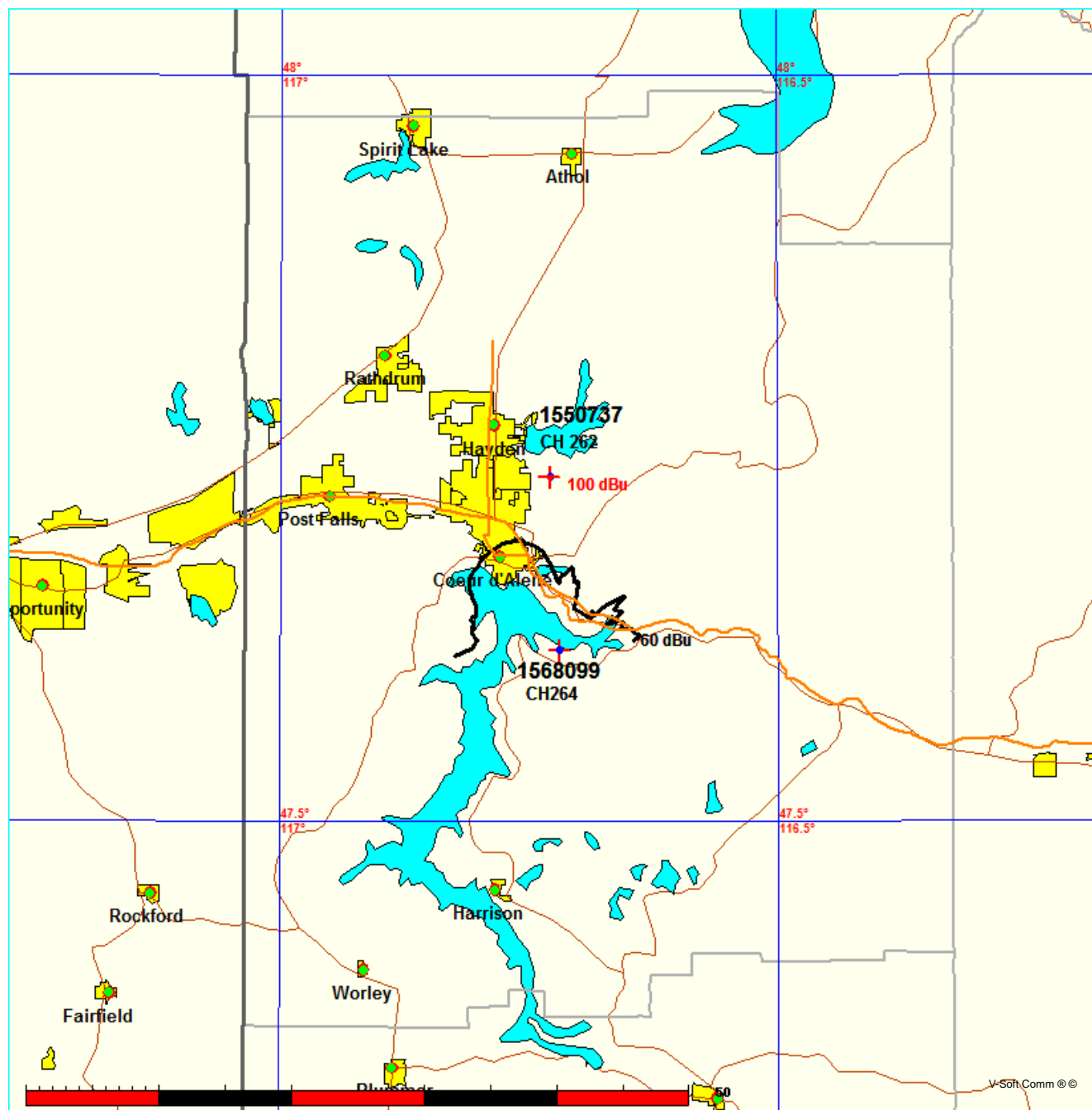
Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
100.0	000.0017	0185.1	004.9	252.7	000.0040	0577.3	040.8	39.27
101.0	000.0016	0179.2	004.8	252.6	000.0040	0577.3	041.0	39.21
102.0	000.0015	0171.0	004.6	252.6	000.0040	0577.3	041.2	39.14
103.0	000.0015	0163.2	004.4	252.7	000.0040	0577.3	041.3	39.06
104.0	000.0014	0155.5	004.3	252.7	000.0040	0577.3	041.5	38.99
105.0	000.0013	0148.7	004.1	252.7	000.0040	0577.4	041.7	38.92
106.0	000.0013	0140.8	003.9	252.8	000.0040	0577.4	041.9	38.85
107.0	000.0012	0127.3	003.7	252.9	000.0040	0577.5	042.1	38.77
108.0	000.0012	0115.4	003.5	252.9	000.0040	0577.6	042.3	38.69
109.0	000.0011	0104.4	003.3	253.0	000.0040	0577.6	042.5	38.61
110.0	000.0010	0096.7	003.1	253.1	000.0040	0577.7	042.7	38.54
111.0	000.0010	0090.8	003.0	253.2	000.0040	0577.8	042.8	38.48
112.0	000.0009	0087.2	002.9	253.2	000.0040	0577.9	042.9	38.44
113.0	000.0008	0084.1	002.8	253.3	000.0040	0577.9	043.1	38.39
114.0	000.0007	0082.0	002.7	253.3	000.0040	0577.9	043.2	38.35
115.0	000.0007	0082.3	002.6	253.3	000.0040	0578.0	043.2	38.32
116.0	000.0006	0081.5	002.5	253.3	000.0040	0578.0	043.3	38.29
117.0	000.0005	0077.6	002.4	253.4	000.0040	0578.0	043.4	38.25
118.0	000.0005	0068.5	002.2	253.5	000.0040	0578.1	043.6	38.19
119.0	000.0004	0065.3	002.1	253.6	000.0040	0578.2	043.7	38.15
120.0	000.0004	0063.3	002.1	253.6	000.0040	0578.2	043.8	38.12
121.0	000.0003	0064.1	002.0	253.6	000.0040	0578.2	043.8	38.10
122.0	000.0003	0060.1	001.9	253.7	000.0040	0578.2	043.9	38.07
123.0	000.0003	0060.0	001.9	253.7	000.0040	0578.2	044.0	38.05
124.0	000.0003	0061.5	001.8	253.7	000.0040	0578.3	044.0	38.03
125.0	000.0002	0062.4	001.8	253.7	000.0040	0578.3	044.1	38.01
126.0	000.0002	0060.8	001.7	253.8	000.0040	0578.3	044.1	37.98
127.0	000.0002	0060.7	001.7	253.8	000.0040	0578.3	044.2	37.96
128.0	000.0002	0056.9	001.6	253.9	000.0040	0578.3	044.3	37.93
129.0	000.0001	0059.5	001.5	253.9	000.0040	0578.3	044.3	37.91
130.0	000.0001	0064.6	001.6	253.8	000.0040	0578.3	044.3	37.92
131.0	000.0001	0067.9	001.5	253.9	000.0040	0578.3	044.4	37.89
132.0	000.0001	0071.8	001.5	253.9	000.0040	0578.3	044.4	37.89
133.0	000.0001	0074.5	001.6	253.8	000.0040	0578.3	044.4	37.88
134.0	000.0001	0072.2	001.5	253.8	000.0040	0578.3	044.4	37.87

Contour-to-Contour Single Channel Study - 1568099  
Spokane Public Radio, Inc.

FMCommander Single Allocation Study - 08-21-2013 - USGS 03 SEC  
1550737's Overlaps (In= 3.14 km, Out= 5.14 km)

1550737 CH 262 D  
Lat= 47 43 54.0, Lng= 116 43 45.1  
0.004 kW 450.4 M HAAT, 1261 M COR  
Prot.= 60 dBu, Intef.= 100 dBu

1568099 CH 264 D BNPFT20130808ABJ  
Lat= 47 36 57.0, Lng= 116 43 07.0  
0.01 kW 0 M HAAT, 904 M COR  
Prot.= 60 dBu, Intef.= 100 dBu



08-21-2013

Terrain Data: USGS 03 SEC

FMOver Analysis

1568099 BNPFT20130808ABJ

1550737

Channel = 264D

Max ERP = 0.01 kW

RCAMSL = 904 M

N. Lat. 47 36 57.0

W. Lng. 116 43 07.0

Protected

60 dBu

Channel = 262D

Max ERP = 0.004 kW

RCAMSL = 1261 M

N. Lat. 47 43 54.0

W. Lng. 116 43 45.1

Interfering

100 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
296.0	000.0100	0147.6	007.0	209.5	000.0040	0560.6	011.2	58.27	
297.0	000.0100	0151.4	007.1	210.0	000.0040	0560.3	011.1	58.41	
298.0	000.0100	0157.7	007.3	210.8	000.0040	0557.4	011.0	58.52	
299.0	000.0100	0165.0	007.4	211.7	000.0040	0553.3	010.9	58.63	
300.0	000.0100	0173.4	007.6	212.8	000.0040	0546.5	010.8	58.72	
301.0	000.0100	0181.3	007.8	213.7	000.0040	0541.7	010.6	58.83	
302.0	000.0100	0188.2	008.0	214.6	000.0040	0537.5	010.5	58.96	
303.0	000.0100	0196.2	008.1	215.5	000.0040	0533.2	010.4	59.10	
304.0	000.0100	0202.9	008.3	216.4	000.0040	0529.7	010.2	59.25	
305.0	000.0100	0207.6	008.4	217.0	000.0040	0526.0	010.1	59.41	
306.0	000.0100	0210.9	008.5	217.4	000.0040	0523.4	010.0	59.59	
307.0	000.0100	0214.8	008.5	217.9	000.0040	0521.7	009.8	59.77	
308.0	000.0100	0218.9	008.6	218.4	000.0040	0520.6	009.7	59.97	
309.0	000.0100	0222.6	008.7	218.9	000.0040	0520.5	009.5	60.18	
310.0	000.0100	0222.7	008.7	218.9	000.0040	0520.5	009.4	60.39	
311.0	000.0100	0223.3	008.7	219.0	000.0040	0520.5	009.2	60.60	
312.0	000.0100	0224.3	008.7	219.1	000.0040	0520.6	009.1	60.81	
313.0	000.0100	0224.4	008.7	219.0	000.0040	0520.6	008.9	61.03	
314.0	000.0100	0224.4	008.7	218.9	000.0040	0520.5	008.7	61.24	
315.0	000.0100	0225.3	008.8	219.0	000.0040	0520.5	008.6	61.46	
316.0	000.0100	0227.0	008.8	219.1	000.0040	0520.6	008.4	61.68	
317.0	000.0100	0229.8	008.9	219.3	000.0040	0521.0	008.3	61.91	
318.0	000.0100	0233.3	008.9	219.6	000.0040	0521.3	008.1	62.15	
319.0	000.0100	0238.3	009.0	220.2	000.0040	0521.5	007.9	62.40	
320.0	000.0100	0237.1	009.0	219.8	000.0040	0521.3	007.8	62.62	
321.0	000.0100	0234.5	008.9	219.2	000.0040	0520.8	007.7	62.83	
322.0	000.0100	0232.1	008.9	218.6	000.0040	0520.5	007.5	63.05	
323.0	000.0100	0233.0	008.9	218.5	000.0040	0520.6	007.4	63.29	
324.0	000.0100	0234.3	008.9	218.3	000.0040	0520.7	007.2	63.54	
325.0	000.0100	0234.4	008.9	218.0	000.0040	0521.5	007.0	63.79	
326.0	000.0100	0234.3	008.9	217.6	000.0040	0522.7	006.9	64.05	
327.0	000.0100	0234.3	008.9	217.2	000.0040	0525.0	006.8	64.31	
328.0	000.0100	0234.1	008.9	216.7	000.0040	0528.2	006.6	64.59	
329.0	000.0100	0234.1	008.9	216.1	000.0040	0530.8	006.5	64.86	



Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
330.0	000.0100	0233.7	008.9	215.5	000.0040	0533.3	006.3	65.12
331.0	000.0100	0233.5	008.9	214.9	000.0040	0536.0	006.2	65.39
332.0	000.0100	0232.7	008.9	214.1	000.0040	0539.9	006.1	65.66
333.0	000.0100	0231.6	008.9	213.2	000.0040	0544.2	005.9	65.92
334.0	000.0100	0230.4	008.9	212.2	000.0040	0550.1	005.8	66.17
335.0	000.0100	0228.9	008.8	211.1	000.0040	0555.8	005.7	66.40
336.0	000.0100	0227.4	008.8	210.0	000.0040	0560.3	005.6	66.62
337.0	000.0100	0225.6	008.8	208.7	000.0040	0564.0	005.5	66.83
338.0	000.0100	0223.5	008.7	207.3	000.0040	0565.6	005.4	67.00
339.0	000.0100	0220.2	008.7	205.7	000.0040	0561.8	005.3	67.12
340.0	000.0100	0215.7	008.6	203.8	000.0040	0562.3	005.3	67.20
341.0	000.0100	0208.8	008.4	201.6	000.0040	0569.3	005.3	67.20
342.0	000.0100	0202.2	008.3	199.4	000.0040	0585.4	005.3	67.21
343.0	000.0100	0198.2	008.2	197.6	000.0040	0586.0	005.3	67.24
344.0	000.0100	0194.0	008.1	195.7	000.0040	0585.8	005.3	67.24
345.0	000.0100	0189.5	008.0	193.9	000.0040	0579.1	005.3	67.19
346.0	000.0100	0183.0	007.9	191.9	000.0040	0567.3	005.4	67.05
347.0	000.0100	0177.0	007.7	190.0	000.0040	0550.9	005.4	66.88
348.0	000.0100	0172.5	007.6	188.3	000.0040	0544.7	005.5	66.77
349.0	000.0100	0168.1	007.5	186.7	000.0040	0536.2	005.5	66.62
350.0	000.0100	0159.3	007.3	184.8	000.0040	0534.0	005.7	66.30
351.0	000.0100	0148.2	007.1	183.0	000.0040	0525.2	005.9	65.81
352.0	000.0100	0135.8	006.8	181.4	000.0040	0516.9	006.2	65.25
353.0	000.0100	0122.7	006.5	180.0	000.0040	0510.7	006.5	64.68
354.0	000.0100	0111.7	006.2	178.8	000.0040	0505.8	006.7	64.20
355.0	000.0100	0099.2	005.8	177.7	000.0040	0499.0	007.1	63.57
356.0	000.0100	0086.9	005.4	176.8	000.0040	0494.3	007.5	62.93
357.0	000.0100	0077.8	005.1	176.1	000.0040	0491.4	007.8	62.46
358.0	000.0100	0073.4	005.0	175.5	000.0040	0488.1	007.9	62.21
359.0	000.0100	0070.6	004.9	174.9	000.0040	0483.6	008.0	62.04
000.0	000.0100	0077.3	005.1	174.2	000.0040	0480.1	007.8	62.33
001.0	000.0100	0086.3	005.4	173.2	000.0040	0480.9	007.5	62.76
002.0	000.0100	0091.1	005.6	172.3	000.0040	0482.9	007.4	62.98
003.0	000.0100	0091.2	005.6	171.6	000.0040	0476.3	007.4	62.91
004.0	000.0100	0090.7	005.6	170.9	000.0040	0471.2	007.4	62.81
005.0	000.0100	0092.3	005.6	170.0	000.0040	0464.5	007.4	62.80
006.0	000.0100	0098.9	005.8	168.8	000.0040	0467.4	007.2	63.09
007.0	000.0100	0105.7	006.0	167.5	000.0040	0485.0	007.1	63.47
008.0	000.0100	0112.1	006.2	166.2	000.0040	0480.5	006.9	63.65
009.0	000.0100	0105.6	006.0	166.0	000.0040	0478.1	007.2	63.29
010.0	000.0100	0097.3	005.8	166.0	000.0040	0478.4	007.4	62.88
011.0	000.0100	0088.3	005.5	166.2	000.0040	0480.9	007.7	62.45
012.0	000.0100	0077.9	005.1	166.7	000.0040	0487.0	008.1	61.99
013.0	000.0100	0076.1	005.1	166.3	000.0040	0482.1	008.2	61.82
014.0	000.0100	0080.3	005.2	165.3	000.0040	0475.0	008.1	61.90
015.0	000.0100	0081.4	005.3	164.6	000.0040	0478.0	008.1	61.90
016.0	000.0100	0073.8	005.0	165.0	000.0040	0475.5	008.4	61.50
017.0	000.0100	0056.5	004.4	166.5	000.0040	0485.5	008.9	60.78
018.0	000.0100	0040.2	003.6	168.5	000.0040	0471.3	009.6	59.73
019.0	000.0100	0025.6	003.2	169.6	000.0040	0463.8	010.1	59.03
020.0	000.0100	0016.4	003.2	169.3	000.0040	0464.1	010.1	58.99

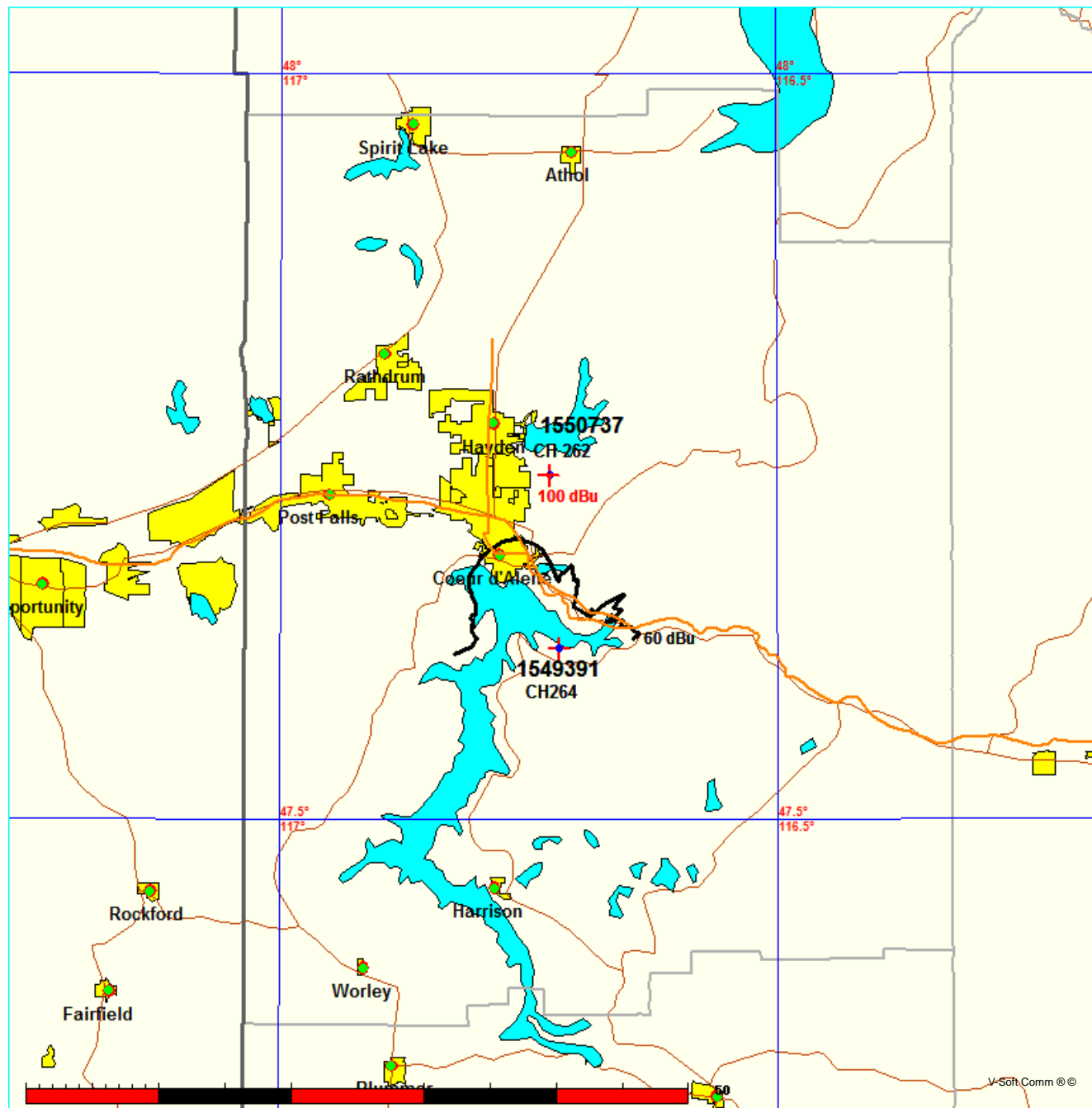
Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
021.0	000.0100	0015.8	003.2	169.1	000.0040	0465.5	010.1	58.96
022.0	000.0100	0008.4	003.2	168.8	000.0040	0467.7	010.1	58.94
023.0	000.0100	-0007.6	003.2	168.5	000.0040	0470.5	010.2	58.92
024.0	000.0100	-0021.4	003.2	168.3	000.0040	0473.6	010.2	58.90
025.0	000.0100	-0026.9	003.2	168.0	000.0040	0477.5	010.2	58.88
026.0	000.0100	-0032.6	003.2	167.8	000.0040	0481.6	010.3	58.87
027.0	000.0100	-0044.7	003.2	167.5	000.0040	0485.0	010.3	58.85
028.0	000.0100	-0058.8	003.2	167.3	000.0040	0487.4	010.3	58.81
029.0	000.0100	-0084.2	003.2	167.1	000.0040	0488.6	010.4	58.77
030.0	000.0100	-0109.2	003.2	166.9	000.0040	0488.3	010.4	58.72
031.0	000.0100	-0119.3	003.2	166.6	000.0040	0486.7	010.5	58.66
032.0	000.0100	-0111.1	003.2	166.4	000.0040	0484.0	010.5	58.58
033.0	000.0100	-0089.7	003.2	166.2	000.0040	0480.8	010.5	58.51
034.0	000.0100	-0066.7	003.2	166.0	000.0040	0478.5	010.6	58.43
035.0	000.0100	-0047.3	003.2	165.8	000.0040	0477.0	010.6	58.37
036.0	000.0100	-0030.9	003.2	165.6	000.0040	0476.0	010.7	58.30
037.0	000.0100	-0014.0	003.2	165.4	000.0040	0475.4	010.7	58.24
038.0	000.0100	0001.3	003.2	165.3	000.0040	0475.0	010.7	58.18
039.0	000.0100	0018.9	003.2	165.1	000.0040	0475.2	010.8	58.12
040.0	000.0100	0035.9	003.4	163.7	000.0040	0481.4	010.7	58.32
041.0	000.0100	0041.3	003.7	162.3	000.0040	0488.4	010.6	58.50
042.0	000.0100	0040.1	003.6	162.4	000.0040	0487.8	010.7	58.38
043.0	000.0100	0035.5	003.4	163.3	000.0040	0483.2	010.8	58.12
044.0	000.0100	0026.9	003.2	164.3	000.0040	0479.3	011.0	57.84
045.0	000.0100	0023.5	003.2	164.2	000.0040	0479.8	011.1	57.78
046.0	000.0100	0039.3	003.6	161.9	000.0040	0490.4	010.9	58.07
047.0	000.0100	0059.9	004.5	157.3	000.0040	0466.8	010.6	58.28
048.0	000.0100	0075.7	005.1	154.4	000.0040	0449.4	010.5	58.24
049.0	000.0100	0088.5	005.5	152.0	000.0040	0454.7	010.5	58.32
050.0	000.0100	0103.5	006.0	149.4	000.0040	0479.2	010.5	58.53
051.0	000.0100	0112.9	006.2	147.9	000.0040	0484.4	010.6	58.47
052.0	000.0100	0108.3	006.1	148.5	000.0040	0480.2	010.7	58.28
053.0	000.0100	0085.3	005.4	152.2	000.0040	0455.2	010.9	57.78
054.0	000.0100	0073.8	005.0	154.1	000.0040	0449.9	011.1	57.51
055.0	000.0100	0075.9	005.1	153.6	000.0040	0452.3	011.1	57.43

Contour-to-Contour Single Channel Study - 1549391  
Spokane Public Radio, Inc.

FMCommander Single Allocation Study - 08-21-2013 - USGS 03 SEC  
1550737's Overlaps (In= 3.14 km, Out= 5.14 km)

1550737 CH 262 D  
Lat= 47 43 54.0, Lng= 116 43 45.1  
0.004 kW 450.4 M HAAT, 1261 M COR  
Prot.= 60 dBu, Intef.= 100 dBu

1549391 CH 264 D BNPFT20030317EQI  
Lat= 47 36 57.0, Lng= 116 43 07.0  
0.01 kW 0 M HAAT, 904 M COR  
Prot.= 60 dBu, Intef.= 100 dBu



08-21-2013

Terrain Data: USGS 03 SEC

FMOver Analysis

1549391 BNPFT20030317EQI

1550737

Channel = 264D

Max ERP = 0.01 kW

RCAMSL = 904 M

N. Lat. 47 36 57.0

W. Lng. 116 43 07.0

Protected

60 dBu

Channel = 262D

Max ERP = 0.004 kW

RCAMSL = 1261 M

N. Lat. 47 43 54.0

W. Lng. 116 43 45.1

Interfering

100 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
296.0	000.0100	0147.6	007.0	209.5	000.0040	0560.6	011.2	58.27	
297.0	000.0100	0151.4	007.1	210.0	000.0040	0560.3	011.1	58.41	
298.0	000.0100	0157.7	007.3	210.8	000.0040	0557.4	011.0	58.52	
299.0	000.0100	0165.0	007.4	211.7	000.0040	0553.3	010.9	58.63	
300.0	000.0100	0173.4	007.6	212.8	000.0040	0546.5	010.8	58.72	
301.0	000.0100	0181.3	007.8	213.7	000.0040	0541.7	010.6	58.83	
302.0	000.0100	0188.2	008.0	214.6	000.0040	0537.5	010.5	58.96	
303.0	000.0100	0196.2	008.1	215.5	000.0040	0533.2	010.4	59.10	
304.0	000.0100	0202.9	008.3	216.4	000.0040	0529.7	010.2	59.25	
305.0	000.0100	0207.6	008.4	217.0	000.0040	0526.0	010.1	59.41	
306.0	000.0100	0210.9	008.5	217.4	000.0040	0523.4	010.0	59.59	
307.0	000.0100	0214.8	008.5	217.9	000.0040	0521.7	009.8	59.77	
308.0	000.0100	0218.9	008.6	218.4	000.0040	0520.6	009.7	59.97	
309.0	000.0100	0222.6	008.7	218.9	000.0040	0520.5	009.5	60.18	
310.0	000.0100	0222.7	008.7	218.9	000.0040	0520.5	009.4	60.39	
311.0	000.0100	0223.3	008.7	219.0	000.0040	0520.5	009.2	60.60	
312.0	000.0100	0224.3	008.7	219.1	000.0040	0520.6	009.1	60.81	
313.0	000.0100	0224.4	008.7	219.0	000.0040	0520.6	008.9	61.03	
314.0	000.0100	0224.4	008.7	218.9	000.0040	0520.5	008.7	61.24	
315.0	000.0100	0225.3	008.8	219.0	000.0040	0520.5	008.6	61.46	
316.0	000.0100	0227.0	008.8	219.1	000.0040	0520.6	008.4	61.68	
317.0	000.0100	0229.8	008.9	219.3	000.0040	0521.0	008.3	61.91	
318.0	000.0100	0233.3	008.9	219.6	000.0040	0521.3	008.1	62.15	
319.0	000.0100	0238.3	009.0	220.2	000.0040	0521.5	007.9	62.40	
320.0	000.0100	0237.1	009.0	219.8	000.0040	0521.3	007.8	62.62	
321.0	000.0100	0234.5	008.9	219.2	000.0040	0520.8	007.7	62.83	
322.0	000.0100	0232.1	008.9	218.6	000.0040	0520.5	007.5	63.05	
323.0	000.0100	0233.0	008.9	218.5	000.0040	0520.6	007.4	63.29	
324.0	000.0100	0234.3	008.9	218.3	000.0040	0520.7	007.2	63.54	
325.0	000.0100	0234.4	008.9	218.0	000.0040	0521.5	007.0	63.79	
326.0	000.0100	0234.3	008.9	217.6	000.0040	0522.7	006.9	64.05	
327.0	000.0100	0234.3	008.9	217.2	000.0040	0525.0	006.8	64.31	
328.0	000.0100	0234.1	008.9	216.7	000.0040	0528.2	006.6	64.59	
329.0	000.0100	0234.1	008.9	216.1	000.0040	0530.8	006.5	64.86	

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
330.0	000.0100	0233.7	008.9	215.5	000.0040	0533.3	006.3	65.12
331.0	000.0100	0233.5	008.9	214.9	000.0040	0536.0	006.2	65.39
332.0	000.0100	0232.7	008.9	214.1	000.0040	0539.9	006.1	65.66
333.0	000.0100	0231.6	008.9	213.2	000.0040	0544.2	005.9	65.92
334.0	000.0100	0230.4	008.9	212.2	000.0040	0550.1	005.8	66.17
335.0	000.0100	0228.9	008.8	211.1	000.0040	0555.8	005.7	66.40
336.0	000.0100	0227.4	008.8	210.0	000.0040	0560.3	005.6	66.62
337.0	000.0100	0225.6	008.8	208.7	000.0040	0564.0	005.5	66.83
338.0	000.0100	0223.5	008.7	207.3	000.0040	0565.6	005.4	67.00
339.0	000.0100	0220.2	008.7	205.7	000.0040	0561.8	005.3	67.12
340.0	000.0100	0215.7	008.6	203.8	000.0040	0562.3	005.3	67.20
341.0	000.0100	0208.8	008.4	201.6	000.0040	0569.3	005.3	67.20
342.0	000.0100	0202.2	008.3	199.4	000.0040	0585.4	005.3	67.21
343.0	000.0100	0198.2	008.2	197.6	000.0040	0586.0	005.3	67.24
344.0	000.0100	0194.0	008.1	195.7	000.0040	0585.8	005.3	67.24
345.0	000.0100	0189.5	008.0	193.9	000.0040	0579.1	005.3	67.19
346.0	000.0100	0183.0	007.9	191.9	000.0040	0567.3	005.4	67.05
347.0	000.0100	0177.0	007.7	190.0	000.0040	0550.9	005.4	66.88
348.0	000.0100	0172.5	007.6	188.3	000.0040	0544.7	005.5	66.77
349.0	000.0100	0168.1	007.5	186.7	000.0040	0536.2	005.5	66.62
350.0	000.0100	0159.3	007.3	184.8	000.0040	0534.0	005.7	66.30
351.0	000.0100	0148.2	007.1	183.0	000.0040	0525.2	005.9	65.81
352.0	000.0100	0135.8	006.8	181.4	000.0040	0516.9	006.2	65.25
353.0	000.0100	0122.7	006.5	180.0	000.0040	0510.7	006.5	64.68
354.0	000.0100	0111.7	006.2	178.8	000.0040	0505.8	006.7	64.20
355.0	000.0100	0099.2	005.8	177.7	000.0040	0499.0	007.1	63.57
356.0	000.0100	0086.9	005.4	176.8	000.0040	0494.3	007.5	62.93
357.0	000.0100	0077.8	005.1	176.1	000.0040	0491.4	007.8	62.46
358.0	000.0100	0073.4	005.0	175.5	000.0040	0488.1	007.9	62.21
359.0	000.0100	0070.6	004.9	174.9	000.0040	0483.6	008.0	62.04
000.0	000.0100	0077.3	005.1	174.2	000.0040	0480.1	007.8	62.33
001.0	000.0100	0086.3	005.4	173.2	000.0040	0480.9	007.5	62.76
002.0	000.0100	0091.1	005.6	172.3	000.0040	0482.9	007.4	62.98
003.0	000.0100	0091.2	005.6	171.6	000.0040	0476.3	007.4	62.91
004.0	000.0100	0090.7	005.6	170.9	000.0040	0471.2	007.4	62.81
005.0	000.0100	0092.3	005.6	170.0	000.0040	0464.5	007.4	62.80
006.0	000.0100	0098.9	005.8	168.8	000.0040	0467.4	007.2	63.09
007.0	000.0100	0105.7	006.0	167.5	000.0040	0485.0	007.1	63.47
008.0	000.0100	0112.1	006.2	166.2	000.0040	0480.5	006.9	63.65
009.0	000.0100	0105.6	006.0	166.0	000.0040	0478.1	007.2	63.29
010.0	000.0100	0097.3	005.8	166.0	000.0040	0478.4	007.4	62.88
011.0	000.0100	0088.3	005.5	166.2	000.0040	0480.9	007.7	62.45
012.0	000.0100	0077.9	005.1	166.7	000.0040	0487.0	008.1	61.99
013.0	000.0100	0076.1	005.1	166.3	000.0040	0482.1	008.2	61.82
014.0	000.0100	0080.3	005.2	165.3	000.0040	0475.0	008.1	61.90
015.0	000.0100	0081.4	005.3	164.6	000.0040	0478.0	008.1	61.90
016.0	000.0100	0073.8	005.0	165.0	000.0040	0475.5	008.4	61.50
017.0	000.0100	0056.5	004.4	166.5	000.0040	0485.5	008.9	60.78
018.0	000.0100	0040.2	003.6	168.5	000.0040	0471.3	009.6	59.73
019.0	000.0100	0025.6	003.2	169.6	000.0040	0463.8	010.1	59.03
020.0	000.0100	0016.4	003.2	169.3	000.0040	0464.1	010.1	58.99

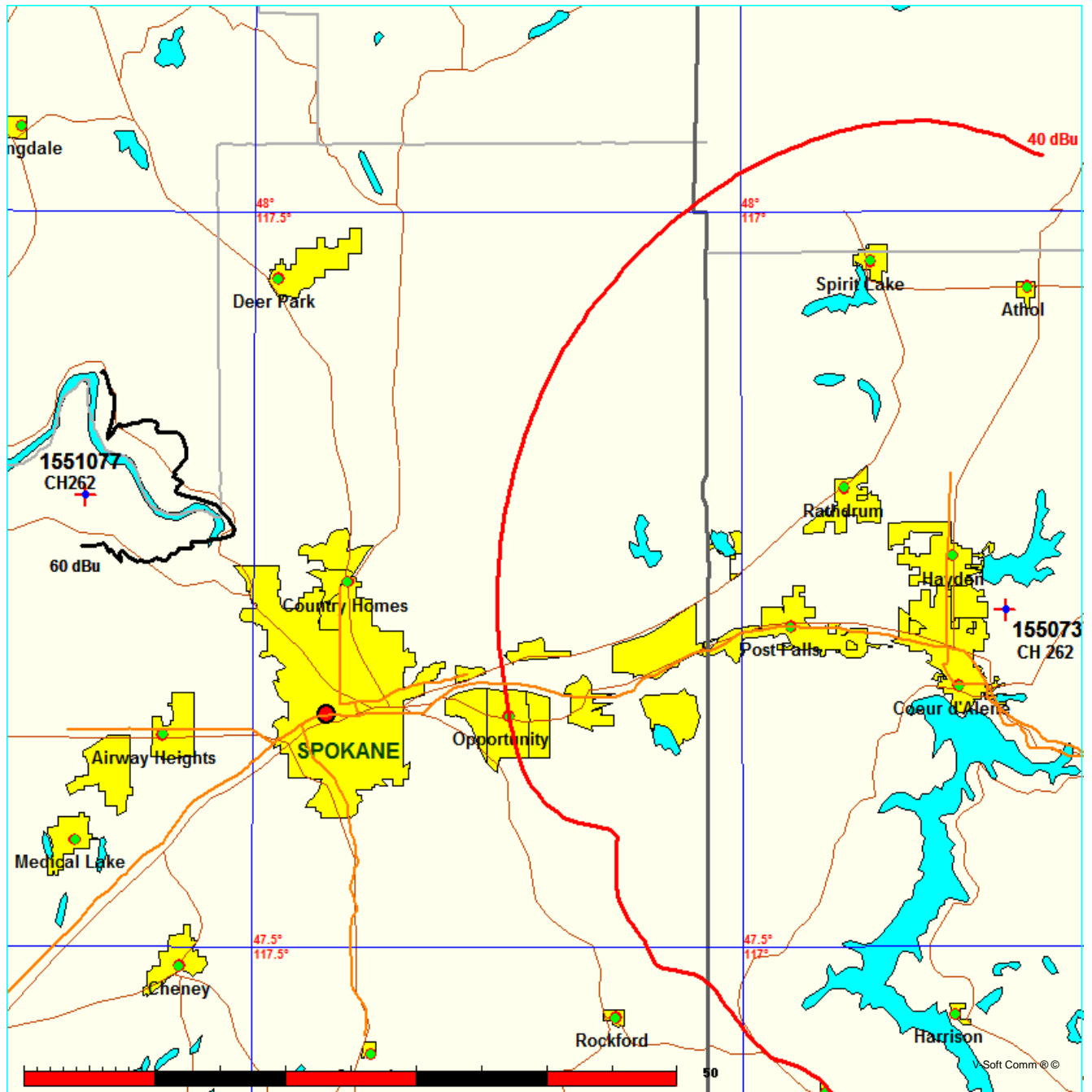
Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
021.0	000.0100	0015.8	003.2	169.1	000.0040	0465.5	010.1	58.96
022.0	000.0100	0008.4	003.2	168.8	000.0040	0467.7	010.1	58.94
023.0	000.0100	-0007.6	003.2	168.5	000.0040	0470.5	010.2	58.92
024.0	000.0100	-0021.4	003.2	168.3	000.0040	0473.6	010.2	58.90
025.0	000.0100	-0026.9	003.2	168.0	000.0040	0477.5	010.2	58.88
026.0	000.0100	-0032.6	003.2	167.8	000.0040	0481.6	010.3	58.87
027.0	000.0100	-0044.7	003.2	167.5	000.0040	0485.0	010.3	58.85
028.0	000.0100	-0058.8	003.2	167.3	000.0040	0487.4	010.3	58.81
029.0	000.0100	-0084.2	003.2	167.1	000.0040	0488.6	010.4	58.77
030.0	000.0100	-0109.2	003.2	166.9	000.0040	0488.3	010.4	58.72
031.0	000.0100	-0119.3	003.2	166.6	000.0040	0486.7	010.5	58.66
032.0	000.0100	-0111.1	003.2	166.4	000.0040	0484.0	010.5	58.58
033.0	000.0100	-0089.7	003.2	166.2	000.0040	0480.8	010.5	58.51
034.0	000.0100	-0066.7	003.2	166.0	000.0040	0478.5	010.6	58.43
035.0	000.0100	-0047.3	003.2	165.8	000.0040	0477.0	010.6	58.37
036.0	000.0100	-0030.9	003.2	165.6	000.0040	0476.0	010.7	58.30
037.0	000.0100	-0014.0	003.2	165.4	000.0040	0475.4	010.7	58.24
038.0	000.0100	0001.3	003.2	165.3	000.0040	0475.0	010.7	58.18
039.0	000.0100	0018.9	003.2	165.1	000.0040	0475.2	010.8	58.12
040.0	000.0100	0035.9	003.4	163.7	000.0040	0481.4	010.7	58.32
041.0	000.0100	0041.3	003.7	162.3	000.0040	0488.4	010.6	58.50
042.0	000.0100	0040.1	003.6	162.4	000.0040	0487.8	010.7	58.38
043.0	000.0100	0035.5	003.4	163.3	000.0040	0483.2	010.8	58.12
044.0	000.0100	0026.9	003.2	164.3	000.0040	0479.3	011.0	57.84
045.0	000.0100	0023.5	003.2	164.2	000.0040	0479.8	011.1	57.78
046.0	000.0100	0039.3	003.6	161.9	000.0040	0490.4	010.9	58.07
047.0	000.0100	0059.9	004.5	157.3	000.0040	0466.8	010.6	58.28
048.0	000.0100	0075.7	005.1	154.4	000.0040	0449.4	010.5	58.24
049.0	000.0100	0088.5	005.5	152.0	000.0040	0454.7	010.5	58.32
050.0	000.0100	0103.5	006.0	149.4	000.0040	0479.2	010.5	58.53
051.0	000.0100	0112.9	006.2	147.9	000.0040	0484.4	010.6	58.47
052.0	000.0100	0108.3	006.1	148.5	000.0040	0480.2	010.7	58.28
053.0	000.0100	0085.3	005.4	152.2	000.0040	0455.2	010.9	57.78
054.0	000.0100	0073.8	005.0	154.1	000.0040	0449.9	011.1	57.51
055.0	000.0100	0075.9	005.1	153.6	000.0040	0452.3	011.1	57.43

Contour-to-Contour Single Channel Study - 1551077  
Spokane Public Radio, Inc.

FMCommander Single Allocation Study - 08-21-2013 - USGS 03 SEC  
1550737's Overlaps (In= 25.04 km, Out= 20.42 km)

1550737 CH 262 D  
Lat= 47 43 54.0, Lng= 116 43 45.1  
0.004 kW 450.4 M HAAT, 1261 M COR  
Prot.= 60 dBu, Intef.= 40 dBu

1551077 CH 262 D BNPFT20030317MJJ  
Lat= 47 48 33.0, Lng= 117 40 21.0  
0.03 kW 0 M HAAT, 741 M COR  
Prot.= 60 dBu, Intef.= 40 dBu



08-21-2013

Terrain Data: USGS 03 SEC

FMOver Analysis

1551077 BNPFT20030317MJJ

1550737

Channel = 262D

Max ERP = 0.03 kW

RCAMSL = 741 M

N. Lat. 47 48 33.0

W. Lng. 117 40 21.0

Protected

60 dBu

Channel = 262D

Max ERP = 0.004 kW

RCAMSL = 1261 M

N. Lat. 47 43 54.0

W. Lng. 116 43 45.1

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	000.0300	0075.3	006.6	282.1	000.0040	0576.1	067.9	29.61	
038.0	000.0300	0079.1	006.8	282.2	000.0040	0576.1	067.7	29.67	
039.0	000.0300	0083.7	006.9	282.3	000.0040	0576.1	067.5	29.74	
040.0	000.0300	0086.8	007.1	282.4	000.0040	0576.1	067.4	29.80	
041.0	000.0300	0089.8	007.2	282.4	000.0040	0576.1	067.2	29.85	
042.0	000.0300	0092.2	007.3	282.4	000.0040	0576.1	067.0	29.91	
043.0	000.0300	0094.0	007.4	282.4	000.0040	0576.1	066.9	29.96	
044.0	000.0300	0095.5	007.4	282.4	000.0040	0576.1	066.8	30.00	
045.0	000.0300	0096.3	007.5	282.4	000.0040	0576.1	066.6	30.05	
046.0	000.0300	0097.1	007.5	282.3	000.0040	0576.1	066.5	30.09	
047.0	000.0300	0094.6	007.4	282.2	000.0040	0576.1	066.5	30.11	
048.0	000.0300	0090.1	007.2	282.0	000.0040	0576.1	066.5	30.10	
049.0	000.0300	0088.2	007.1	281.9	000.0040	0576.1	066.4	30.12	
050.0	000.0300	0086.7	007.1	281.8	000.0040	0576.1	066.4	30.14	
051.0	000.0300	0087.5	007.1	281.7	000.0040	0576.1	066.2	30.18	
052.0	000.0300	0092.8	007.3	281.8	000.0040	0576.1	066.0	30.26	
053.0	000.0300	0097.3	007.5	281.8	000.0040	0576.1	065.8	30.33	
054.0	000.0300	0101.7	007.7	281.9	000.0040	0576.1	065.6	30.41	
055.0	000.0300	0106.3	007.9	281.9	000.0040	0576.1	065.3	30.48	
056.0	000.0300	0110.9	008.0	281.9	000.0040	0576.1	065.1	30.56	
057.0	000.0300	0116.0	008.2	282.0	000.0040	0576.1	064.9	30.63	
058.0	000.0300	0118.7	008.3	281.9	000.0040	0576.1	064.7	30.69	
059.0	000.0300	0120.9	008.4	281.9	000.0040	0576.1	064.6	30.74	
060.0	000.0300	0122.4	008.4	281.8	000.0040	0576.1	064.4	30.79	
061.0	000.0300	0122.2	008.4	281.7	000.0040	0576.1	064.3	30.82	
062.0	000.0300	0121.1	008.4	281.6	000.0040	0576.1	064.3	30.84	
063.0	000.0300	0120.5	008.4	281.5	000.0040	0576.1	064.2	30.86	
064.0	000.0300	0120.2	008.4	281.4	000.0040	0576.1	064.1	30.89	
065.0	000.0300	0120.4	008.4	281.2	000.0040	0576.1	064.0	30.92	
066.0	000.0300	0119.8	008.4	281.1	000.0040	0576.1	064.0	30.94	
067.0	000.0300	0118.7	008.3	281.0	000.0040	0576.1	063.9	30.96	
068.0	000.0300	0117.3	008.3	280.9	000.0040	0576.1	063.9	30.97	
069.0	000.0300	0115.9	008.2	280.7	000.0040	0576.1	063.8	30.99	
070.0	000.0300	0113.7	008.1	280.6	000.0040	0576.1	063.8	30.99	



Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
071.0	000.0300	0111.9	008.1	280.5	000.0040	0576.1	063.8	30.99
072.0	000.0300	0107.6	007.9	280.3	000.0040	0576.1	063.9	30.97
073.0	000.0300	0102.8	007.7	280.1	000.0040	0576.1	064.0	30.93
074.0	000.0300	0099.0	007.6	279.9	000.0040	0576.1	064.1	30.91
075.0	000.0300	0094.6	007.4	279.8	000.0040	0576.1	064.2	30.87
076.0	000.0300	0087.8	007.1	279.6	000.0040	0576.1	064.4	30.80
077.0	000.0300	0085.3	007.0	279.4	000.0040	0576.1	064.4	30.78
078.0	000.0300	0083.8	007.0	279.3	000.0040	0576.1	064.5	30.78
079.0	000.0300	0084.1	007.0	279.2	000.0040	0576.1	064.4	30.79
080.0	000.0300	0080.3	006.8	279.0	000.0040	0576.1	064.5	30.76
081.0	000.0300	0081.9	006.9	279.0	000.0040	0576.1	064.4	30.79
082.0	000.0300	0084.5	007.0	278.9	000.0040	0576.1	064.3	30.84
083.0	000.0300	0089.0	007.2	278.8	000.0040	0576.1	064.1	30.91
084.0	000.0300	0094.3	007.4	278.8	000.0040	0576.1	063.8	30.99
085.0	000.0300	0092.2	007.3	278.6	000.0040	0576.1	063.9	30.97
086.0	000.0300	0087.8	007.1	278.5	000.0040	0576.1	064.0	30.92
087.0	000.0300	0083.9	007.0	278.4	000.0040	0576.1	064.2	30.88
088.0	000.0300	0083.2	006.9	278.2	000.0040	0576.1	064.2	30.88
089.0	000.0300	0082.8	006.9	278.1	000.0040	0576.1	064.2	30.88
090.0	000.0300	0082.7	006.9	278.0	000.0040	0576.1	064.2	30.88
091.0	000.0300	0088.3	007.1	277.9	000.0040	0576.0	063.9	30.96
092.0	000.0300	0102.4	007.7	277.9	000.0040	0576.0	063.3	31.16
093.0	000.0300	0119.0	008.3	277.8	000.0040	0576.0	062.7	31.37
094.0	000.0300	0138.0	009.0	277.7	000.0040	0576.0	062.1	31.59
095.0	000.0300	0157.4	009.6	277.6	000.0040	0576.0	061.4	31.82
096.0	000.0300	0172.4	010.1	277.4	000.0040	0576.0	060.9	31.99
097.0	000.0300	0181.8	010.4	277.3	000.0040	0576.0	060.6	32.08
098.0	000.0300	0189.9	010.6	277.1	000.0040	0576.0	060.4	32.16
099.0	000.0300	0198.3	010.8	276.9	000.0040	0576.0	060.2	32.23
100.0	000.0300	0205.8	011.0	276.7	000.0040	0576.0	060.0	32.29
101.0	000.0300	0213.0	011.2	276.5	000.0040	0576.0	059.8	32.35
102.0	000.0300	0219.3	011.4	276.3	000.0040	0576.0	059.7	32.40
103.0	000.0300	0227.3	011.6	276.1	000.0040	0576.0	059.5	32.46
104.0	000.0300	0233.0	011.7	275.9	000.0040	0575.9	059.4	32.49
105.0	000.0300	0233.9	011.7	275.7	000.0040	0575.9	059.4	32.49
106.0	000.0300	0233.0	011.7	275.5	000.0040	0575.9	059.5	32.47
107.0	000.0300	0226.1	011.5	275.3	000.0040	0575.9	059.7	32.40
108.0	000.0300	0214.0	011.2	275.2	000.0040	0575.9	060.0	32.28
109.0	000.0300	0195.6	010.8	275.1	000.0040	0575.9	060.5	32.11
110.0	000.0300	0181.9	010.4	275.1	000.0040	0575.9	060.9	31.97
111.0	000.0300	0173.8	010.2	275.0	000.0040	0575.9	061.2	31.88
112.0	000.0300	0164.4	009.9	274.9	000.0040	0575.9	061.6	31.76
113.0	000.0300	0154.6	009.5	274.8	000.0040	0575.9	061.9	31.64
114.0	000.0300	0145.0	009.2	274.8	000.0040	0575.9	062.3	31.51
115.0	000.0300	0137.6	009.0	274.7	000.0040	0575.9	062.6	31.41
116.0	000.0300	0139.0	009.0	274.6	000.0040	0575.9	062.6	31.41
117.0	000.0300	0143.5	009.2	274.4	000.0040	0575.9	062.5	31.43
118.0	000.0300	0141.2	009.1	274.3	000.0040	0575.9	062.6	31.39
119.0	000.0300	0133.2	008.8	274.3	000.0040	0575.9	063.0	31.28
120.0	000.0300	0125.8	008.6	274.2	000.0040	0575.9	063.3	31.18
121.0	000.0300	0119.0	008.3	274.2	000.0040	0575.9	063.5	31.09

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
122.0	000.0300	0119.0	008.3	274.1	000.0040	0575.9	063.6	31.07
123.0	000.0300	0118.4	008.3	274.0	000.0040	0575.9	063.7	31.04
124.0	000.0300	0117.1	008.3	273.9	000.0040	0575.9	063.8	31.00
125.0	000.0300	0112.8	008.1	273.9	000.0040	0575.9	064.0	30.93
126.0	000.0300	0110.4	008.0	273.8	000.0040	0575.9	064.1	30.88
127.0	000.0300	0111.1	008.0	273.7	000.0040	0575.9	064.2	30.86
128.0	000.0300	0112.8	008.1	273.6	000.0040	0575.9	064.2	30.85
129.0	000.0300	0113.0	008.1	273.4	000.0040	0575.9	064.3	30.83
130.0	000.0300	0110.3	008.0	273.4	000.0040	0575.9	064.5	30.77
131.0	000.0300	0107.3	007.9	273.4	000.0040	0575.9	064.6	30.71
132.0	000.0300	0098.8	007.6	273.5	000.0040	0575.9	065.0	30.60
133.0	000.0300	0092.9	007.3	273.5	000.0040	0575.9	065.3	30.51
134.0	000.0300	0092.6	007.3	273.4	000.0040	0575.9	065.3	30.48
135.0	000.0300	0092.5	007.3	273.3	000.0040	0575.9	065.4	30.45
136.0	000.0300	0091.0	007.3	273.3	000.0040	0575.9	065.6	30.40
137.0	000.0300	0090.4	007.2	273.2	000.0040	0575.9	065.7	30.37
138.0	000.0300	0088.4	007.1	273.2	000.0040	0575.9	065.8	30.32
139.0	000.0300	0084.8	007.0	273.2	000.0040	0575.9	066.0	30.25
140.0	000.0300	0079.1	006.8	273.3	000.0040	0575.9	066.3	30.17
141.0	000.0300	0076.3	006.6	273.3	000.0040	0575.9	066.4	30.11
142.0	000.0300	0076.3	006.6	273.3	000.0040	0575.9	066.5	30.08
143.0	000.0300	0074.9	006.6	273.2	000.0040	0575.9	066.7	30.04
144.0	000.0300	0071.4	006.4	273.3	000.0040	0575.9	066.8	29.98
145.0	000.0300	0067.5	006.2	273.3	000.0040	0575.9	067.0	29.91
146.0	000.0300	0061.8	006.0	273.4	000.0040	0575.9	067.3	29.83
147.0	000.0300	0054.0	005.6	273.6	000.0040	0575.9	067.6	29.73
148.0	000.0300	0047.4	005.3	273.8	000.0040	0575.9	067.9	29.63
149.0	000.0300	0047.1	005.2	273.8	000.0040	0575.9	067.9	29.60
150.0	000.0300	0048.7	005.3	273.7	000.0040	0575.9	068.0	29.60
151.0	000.0300	0049.5	005.4	273.6	000.0040	0575.9	068.0	29.58
152.0	000.0300	0056.8	005.8	273.3	000.0040	0575.9	067.9	29.62
153.0	000.0300	0059.6	005.9	273.2	000.0040	0575.9	067.9	29.61
154.0	000.0300	0051.5	005.5	273.4	000.0040	0575.9	068.2	29.51
155.0	000.0300	0043.8	005.0	273.7	000.0040	0575.9	068.5	29.41
156.0	000.0300	0041.0	004.9	273.8	000.0040	0575.9	068.7	29.36



World • United States • ID • Kootenai Co.



My places editor

Coeur d'Alene National Forest



500 feet 100 m

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1550737 Coeur 'd Alene, ID  
 Translator 74.1204(d) Showing  
 Translator Maximum Licensed ERP = 0.004  
 Translator Antenna Height AG = 12.2 Meters  
 1550737 Antenna Model = SHPX1F

Protected Station's Contour = 96.23542 dBu  
 Translator's full Interference contour 136.23542

Review Azimuth = Degrees True  
 Horizontal Relative Field at Review Azimuth = 1.000  
 Horizontal Translator ERP at Review Azimuth = 0.004 kW  
 Distance between stations = 19.3  
 Protected Station= KXLY-FM CP, 90 kW, 1455 M Meters COR AMSL

Depression Angle From Horizon(Deg)	Vertical Relative Field	Horizontal Relative Field	ERP (kw)	Dist to IX Contour Along Dep. Angle(m)	Dist to IX Contour From Tower Base(m)	Height IX Above Ground (m)
00.00	1.0	1.0	0.0040	002.1640	002.1640	012.200
05.00	0.993	1.0	0.0039	002.1489	002.1407	012.013
10.00	0.974	1.0	0.0038	002.1077	002.0757	011.834
15.00	0.941	1.0	0.0035	002.0363	001.9669	011.673
20.00	0.897	1.0	0.0032	001.9411	001.8241	011.536
25.00	0.843	1.0	0.0028	001.8243	001.6533	011.429
30.00	0.78	1.0	0.0024	001.6879	001.4618	011.356
35.00	0.709	1.0	0.0020	001.5343	001.2568	011.320
40.00	0.633	1.0	0.0016	001.3698	001.0493	011.319
45.00	0.554	1.0	0.0012	001.1989	000.8477	011.352
50.00	0.473	1.0	0.0009	001.0236	000.6579	011.416
55.00	0.394	1.0	0.0006	000.8526	000.4890	011.502
60.00	0.317	1.0	0.0004	000.6860	000.3430	011.606
65.00	0.245	1.0	0.0002	000.5302	000.2241	011.719
70.00	0.181	1.0	0.0001	000.3917	000.1340	011.832
75.00	0.124	1.0	0.0001	000.2683	000.0695	011.941
80.00	0.077	1.0	0.0000	000.1666	000.0289	012.036
85.00	0.041	1.0	0.0000	000.0887	000.0077	012.112
90.00	0.016	1.0	0.0000	000.0346	000.0000	012.165

1550737 Coeur 'd Alene, ID  
 Translator 74.1204(d) Showing  
 Translator Maximum Licensed ERP = 0.004  
 Translator Antenna Height AG = 12.2 Meters  
 1550737 Antenna Model = SHPX1F

Protected Station's Contour = 80.99375 dBu  
 Translator's full Interference contour 120.99375

Review Azimuth = Degrees True  
 Horizontal Relative Field at Review Azimuth = 1.000  
 Horizontal Translator ERP at Review Azimuth = 0.004 kW  
 Distance between stations = 35.6  
 Protected Station= KXLY-FM (License), 37 kW, 1813 M Meters COR AMSL

Depression Angle From Horizon(Deg)	Vertical Relative Field	Horizontal Relative Field	ERP (kw)	Dist to IX Contour Along Dep. Angle(m)	Dist to IX Contour From Tower Base(m)	Height IX Above Ground (m)
00.00	1.0	1.0	0.0040	012.5125	012.5125	012.200
05.00	0.993	1.0	0.0039	012.4249	012.3776	011.117
10.00	0.974	1.0	0.0038	012.1871	012.0020	010.084
15.00	0.941	1.0	0.0035	011.7742	011.3730	009.153
20.00	0.897	1.0	0.0032	011.2237	010.5468	008.361
25.00	0.843	1.0	0.0028	010.5480	009.5597	007.742
30.00	0.78	1.0	0.0024	009.7597	008.4522	007.320
35.00	0.709	1.0	0.0020	008.8713	007.2670	007.112
40.00	0.633	1.0	0.0016	007.9204	006.0674	007.109
45.00	0.554	1.0	0.0012	006.9319	004.9016	007.298
50.00	0.473	1.0	0.0009	005.9184	003.8043	007.666
55.00	0.394	1.0	0.0006	004.9299	002.8277	008.162
60.00	0.317	1.0	0.0004	003.9664	001.9832	008.765
65.00	0.245	1.0	0.0002	003.0656	001.2956	009.422
70.00	0.181	1.0	0.0001	002.2648	000.7746	010.072
75.00	0.124	1.0	0.0001	001.5515	000.4016	010.701
80.00	0.077	1.0	0.0000	000.9635	000.1673	011.251
85.00	0.041	1.0	0.0000	000.5130	000.0447	011.689
90.00	0.016	1.0	0.0000	000.2002	000.0000	012.000