

Oklahoma State University Water Tower Site											
REFERENCE 36 07 46.5 N. 97 05 43.4 W.		CH# 202A - 88.3 MHz, Pwr= 1.2 kW, HAAT= 33.5 M, COR= 331.6 M Average Protected F(50-50)= 11.14 km Omni-directional								DISPLAY DATES DATA 04-21-09 SEARCH 04-21-09	
CH CITY	CALL	TYPE STATE	ANT STATE	AZI <--	DI ST FILE #	LAT LNG	PWR(kW) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT* (in km)
202C2 Stillwater	1214639	APP OK	DCX	14.6 194.6	16.6 BNPED20071022AOG	36 16 29.0 97 02 55.0	50.000 86	128.0 388	42.0 South Central Oklahoma Chr	-122.0*<	-63.3*< ¹
202C2 Stillwater	1210505	APP OK	DCX	255.4 75.3	9.4 BNPED20071018AFP	36 06 29.8 97 11 45.9	6.300 308	116.7 617	48.0 Oklahoma State University	-118.0*<	-76.6*< ²
202C2 Hillsdale	1215460	APP OK	DCX	305.7 125.4	52.1 BNPED20071022BTS	36 24 07.0 97 34 05.0	100.000 86	82.8 423	26.4 The Love Station, Inc.	-41.3*<	-12.2*< ¹
06+2C Tulsa	KOTV	LI OK	_CN	95.0 275.8	128.5 BLCT19841031KI	36 01 15.0 95 40 32.0	100.000 573	24.3 769	125.3 Griffin Tulsa Licensing,	256.5R	-21.1M
202A Covington	1211041	APP OK	_VX	294.7 114.4	48.1 BNPED20071012AHO	36 18 33.0 97 34 58.0	0.700 39	31.5 380	9.3 Amigos Ministry Church Inc	6.0	0.9
202A Prague	1213079	APP OK	DEX	154.9 335.1	83.9 BNPED20071022BEP	35 26 42.0 96 42 06.0	1.500 90	65.3 376	20.4 St. Wenceslaus Catholic Ch	5.7	16.4
205C1 Oklahoma City	KYLV	LIC OK	DCX	209.7 29.5	71.1 BLED20070604AAC	35 34 24.0 97 29 08.0	39.000 205	6.4 555	55.4 Educational Media Foundati	54.0	14.1
201C1 Moore	KMSI	LIC OK	DVX	203.5 23.2	112.2 BLED20040115ABB	35 12 07.0 97 35 18.0	50.000 177	83.8 549	56.6 Creative Educational Medi a	17.5	40.1
202C1 Murphy	1253229	APP OK	DVX	75.0 256.0	168.8 BNPED20071018ASR	36 30 33.0 95 16 31.0	100.000 48	135.2 266	36.7 Cherokee Nation	21.0	86.0
204C3 Ponca City	KLVV	LIC OK	_CN	353.7 173.7	62.6 BLED19921229KA	36 41 25.0 97 10 20.0	11.500 146	3.9 444	39.2 The Love Station, Inc.	48.0	21.8
203C1 Piedmont	KZTH	LIC OK	_CX	235.1 54.5	117.4 BLED20080417AAV	35 31 17.0 98 09 33.0	35.000 182	79.6 620	53.9 The Love Station, Inc.	27.2	48.7
201C1 Coweta	KDIM	LIC OK	DEX	117.3 297.8	101.8 BLED20050106AAL	35 42 24.0 96 05 39.0	100.000 168	56.3 391	37.9 Creative Educational Medi a	30.1	41.0
255C Oklahoma City	KYIS	LIC OK	_CX	209.2 28.9	72.3 BLH20070904AAD	35 33 37.0 97 29 07.0	100.000 470	2.0 820	12.5 Citadel Broadcasting Compa	28.5R	43.8M
202C1 Woodward	Woodward2	APP OK	___	278.0 96.6	215.6	36 22 31.0 99 28 31.0	75.000 224	159.8 873	65.1	44.1	107.8
06-2C Wichita Falls	KAUZ-TV	LI TX	_HN	208.4 27.5	280.2 BLCT1576	33 54 04.0 98 32 21.0	100.000 311	18.6 612	104.2 Hoak Media Of Wichita Fal l	256.5R	157.4M
06Z2 Hutchinson	616942	AP KS	_HN	332.0 151.3	227.0 BPRM20011009AEG	37 55 43.0 98 18 36.0	0.000	18.6 0	0.0 Sierra Grande Broadcasting	256.5R	208.5M

Terrain database is USGS 03 SEC , R= 73.215 qualifying spacings or FCC minimum Spacings in KM, M= Margin in KM
 Contour distances are on direct line to and from reference station. Reference zone = 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.

"<" = Contour Overlap

1 - Application being dismissed as part of Settlement Agreement.

2 - Application being herein amended.

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.

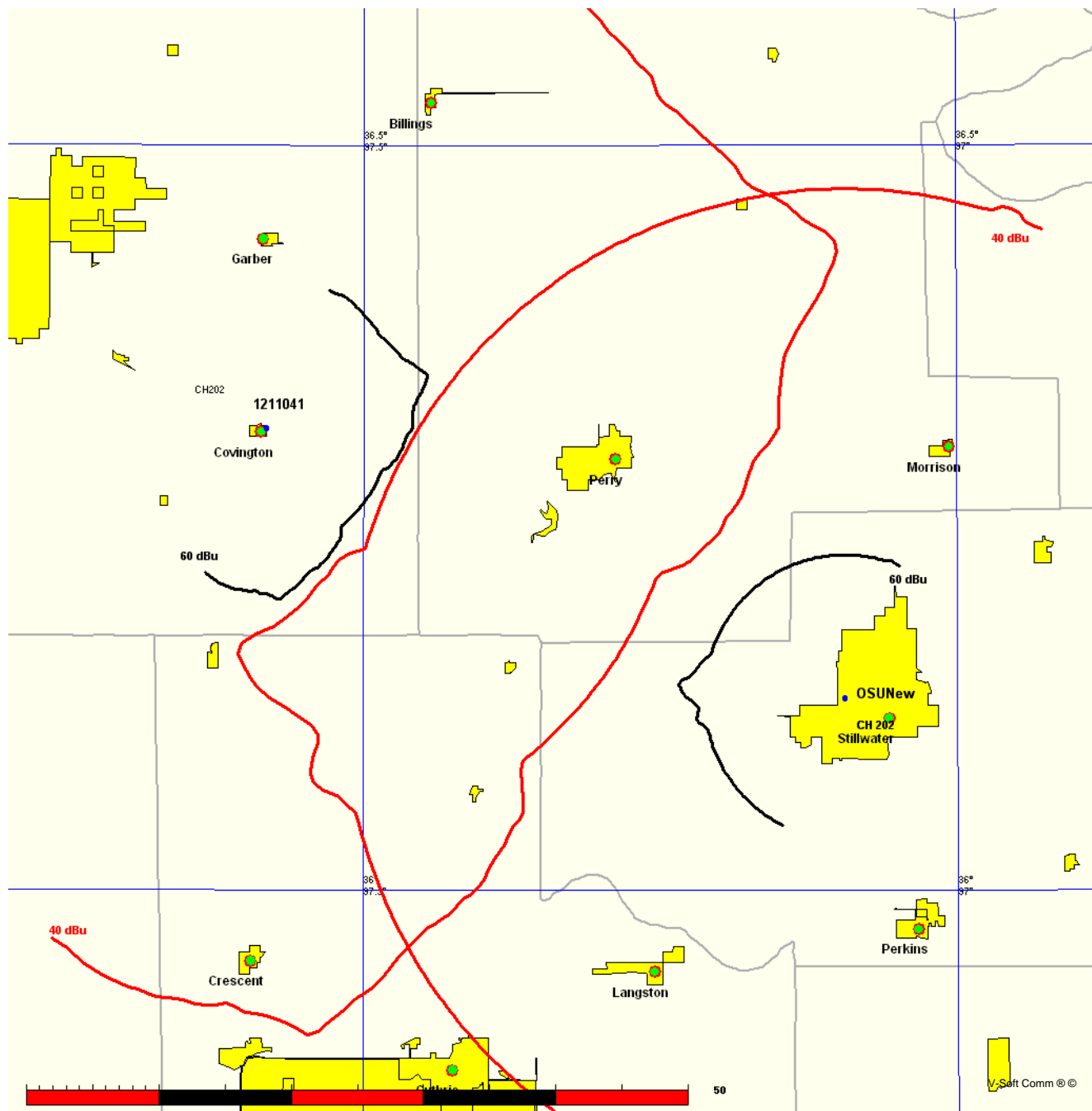
The first three letters of the "TYPE" column identify the current FCC status of the stations. The fourth letter will be a "D" if the facility is directional. "Z" indicates a 73.215 directional. An "N" indicates it is a 73.215 station that operates with an omni-directional antenna. The fifth letter will 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.

Oklahoma State University
OSU v. Covington App

FMCommander Single Allocation Study - 04-21-2009 - USGS 03 SEC
OSUNew's Overlaps (In= 5.97 km, Out= 0.93 km)

OSUNew CH 202 A
Lat= 36 07 46.5, Lng= 97 05 43.4
1.2 kW 33.5 M HAAT, 331.6 M COR
Prot.= 60 dBu, Intef.= 40 dBu

1211041 CH 202 A BNPED20071012AHO
Lat= 36 18 33.0, Lng= 97 34 58.0
0.7 kW 38.75 M HAAT, 380 M COR
Prot.= 60 dBu, Intef.= 40 dBu



04-21-2009

USGS 03 SEC Terrain Data

FMOver Analysis

OSUNew

Channel = 202A

Max ERP = 1.2 kW

RCAMSL = 331.6 M

N. Lat. 36 07 46.5

W. Lng. 97 05 43.4

Protected

60 dBu

1211041 BNPED20071012AHO

Channel = 202A

Max ERP = 0.7 kW

RCAMSL = 380 M

N. Lat. 36 18 33.0

W. Lng. 97 34 58.0

Interfering

40 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
235.0	001.2000	0010.0	010.6	126.5	000.7000	0012.8	043.7	35.88	
236.0	001.2000	0009.8	010.6	126.4	000.7000	0012.9	043.5	35.93	
237.0	001.2000	0009.7	010.6	126.4	000.7000	0013.1	043.4	35.98	
238.0	001.2000	0010.3	010.6	126.3	000.7000	0013.2	043.2	36.03	
239.0	001.2000	0011.4	010.6	126.2	000.7000	0013.3	043.0	36.08	
240.0	001.2000	0013.0	010.6	126.1	000.7000	0013.4	042.9	36.12	
241.0	001.2000	0014.1	010.6	126.0	000.7000	0013.5	042.7	36.17	
242.0	001.2000	0013.8	010.6	125.9	000.7000	0013.7	042.5	36.22	
243.0	001.2000	0013.1	010.6	125.8	000.7000	0013.8	042.4	36.27	
244.0	001.2000	0013.6	010.6	125.6	000.7000	0013.9	042.2	36.32	
245.0	001.2000	0014.6	010.6	125.5	000.7000	0014.1	042.0	36.36	
246.0	001.2000	0015.7	010.6	125.4	000.7000	0014.2	041.9	36.41	
247.0	001.2000	0016.8	010.6	125.3	000.7000	0014.4	041.7	36.46	
248.0	001.2000	0018.1	010.6	125.1	000.7000	0014.5	041.6	36.51	
249.0	001.2000	0019.7	010.6	125.0	000.7000	0014.7	041.4	36.55	
250.0	001.2000	0020.9	010.6	124.8	000.7000	0014.8	041.2	36.60	
251.0	001.2000	0022.1	010.6	124.7	000.7000	0014.9	041.1	36.64	
252.0	001.2000	0022.4	010.6	124.5	000.7000	0015.1	040.9	36.69	
253.0	001.2000	0022.7	010.6	124.4	000.7000	0015.2	040.8	36.73	
254.0	001.2000	0023.9	010.6	124.2	000.7000	0015.3	040.7	36.78	
255.0	001.2000	0025.4	010.6	124.0	000.7000	0015.4	040.5	36.82	
256.0	001.2000	0027.3	010.6	123.9	000.7000	0015.5	040.4	36.87	
257.0	001.2000	0030.1	010.6	123.7	000.7000	0015.6	040.2	36.91	
258.0	001.2000	0030.9	010.8	123.7	000.7000	0015.7	040.0	36.98	
259.0	001.2000	0031.6	010.9	123.6	000.7000	0015.7	039.8	37.04	
260.0	001.2000	0033.4	011.1	123.6	000.7000	0015.7	039.5	37.15	
261.0	001.2000	0034.3	011.3	123.6	000.7000	0015.7	039.2	37.22	
262.0	001.2000	0034.5	011.3	123.4	000.7000	0015.8	039.1	37.27	
263.0	001.2000	0034.2	011.2	123.1	000.7000	0015.8	039.0	37.30	
264.0	001.2000	0033.8	011.2	122.8	000.7000	0015.9	038.9	37.33	
265.0	001.2000	0033.3	011.1	122.5	000.7000	0015.9	038.9	37.35	
266.0	001.2000	0033.1	011.1	122.3	000.7000	0015.9	038.8	37.38	
267.0	001.2000	0033.9	011.2	122.1	000.7000	0015.9	038.6	37.45	
268.0	001.2000	0035.3	011.4	122.1	000.7000	0015.9	038.3	37.54	
269.0	001.2000	0037.0	011.7	122.0	000.7000	0015.9	037.9	37.65	
270.0	001.2000	0038.9	011.9	122.0	000.7000	0015.9	037.6	37.77	
271.0	001.2000	0040.6	012.2	121.9	000.7000	0015.9	037.3	37.88	

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
272.0	001.2000	0041.5	012.3	121.8	000.7000	0016.0	037.0	37.96
273.0	001.2000	0042.4	012.5	121.6	000.7000	0016.0	036.8	38.03
274.0	001.2000	0043.2	012.6	121.4	000.7000	0016.0	036.6	38.10
275.0	001.2000	0043.0	012.5	121.0	000.7000	0016.1	036.5	38.13
276.0	001.2000	0041.2	012.3	120.5	000.7000	0016.2	036.7	38.08
277.0	001.2000	0038.9	011.9	120.0	000.7000	0016.3	036.9	38.00
278.0	001.2000	0037.6	011.8	119.6	000.7000	0016.4	037.0	37.97
279.0	001.2000	0036.6	011.6	119.2	000.7000	0016.6	037.1	37.94
280.0	001.2000	0035.6	011.4	118.9	000.7000	0016.8	037.2	37.92
281.0	001.2000	0035.0	011.4	118.5	000.7000	0017.1	037.2	37.91
282.0	001.2000	0034.4	011.3	118.2	000.7000	0017.3	037.2	37.90
283.0	001.2000	0033.6	011.1	117.9	000.7000	0017.6	037.3	37.88
284.0	001.2000	0033.1	011.1	117.5	000.7000	0017.9	037.3	37.87
285.0	001.2000	0032.6	011.0	117.2	000.7000	0018.2	037.3	37.86
286.0	001.2000	0031.5	010.8	116.9	000.7000	0018.6	037.4	37.82
287.0	001.2000	0029.7	010.6	116.5	000.7000	0018.9	037.6	37.76
288.0	001.2000	0028.4	010.6	116.3	000.7000	0019.2	037.6	37.77
289.0	001.2000	0027.8	010.6	116.0	000.7000	0019.5	037.6	37.78
290.0	001.2000	0026.7	010.6	115.7	000.7000	0019.8	037.6	37.79
291.0	001.2000	0025.2	010.6	115.4	000.7000	0020.1	037.5	37.79
292.0	001.2000	0025.1	010.6	115.1	000.7000	0020.5	037.5	37.80
293.0	001.2000	0025.3	010.6	114.9	000.7000	0021.0	037.5	37.80
294.0	001.2000	0025.0	010.6	114.6	000.7000	0021.6	037.5	37.80
295.0	001.2000	0024.3	010.6	114.3	000.7000	0022.2	037.5	37.80
296.0	001.2000	0023.3	010.6	114.0	000.7000	0022.7	037.5	37.80
297.0	001.2000	0021.7	010.6	113.7	000.7000	0023.3	037.5	37.80
298.0	001.2000	0020.1	010.6	113.4	000.7000	0023.8	037.5	37.79
299.0	001.2000	0018.8	010.6	113.2	000.7000	0024.5	037.5	37.79
300.0	001.2000	0018.7	010.6	112.9	000.7000	0025.1	037.6	37.78
301.0	001.2000	0019.6	010.6	112.6	000.7000	0025.8	037.6	37.77
302.0	001.2000	0020.1	010.6	112.3	000.7000	0026.5	037.6	37.76
303.0	001.2000	0020.6	010.6	112.0	000.7000	0027.2	037.7	37.75
304.0	001.2000	0022.1	010.6	111.8	000.7000	0027.8	037.7	37.74
305.0	001.2000	0024.3	010.6	111.5	000.7000	0028.3	037.7	37.72
306.0	001.2000	0024.5	010.6	111.2	000.7000	0028.8	037.8	37.71
307.0	001.2000	0024.3	010.6	110.9	000.7000	0029.1	037.8	37.69
308.0	001.2000	0025.7	010.6	110.7	000.7000	0029.5	037.9	37.67
309.0	001.2000	0026.6	010.6	110.4	000.7000	0029.8	037.9	37.65
310.0	001.2000	0026.1	010.6	110.1	000.7000	0030.1	038.0	37.66
311.0	001.2000	0025.5	010.6	109.9	000.7000	0030.5	038.1	37.71
312.0	001.2000	0025.2	010.6	109.6	000.7000	0030.8	038.1	37.76
313.0	001.2000	0024.4	010.6	109.3	000.7000	0031.2	038.2	37.82
314.0	001.2000	0023.1	010.6	109.1	000.7000	0031.6	038.3	37.87
315.0	001.2000	0021.6	010.6	108.8	000.7000	0031.9	038.4	37.91
316.0	001.2000	0020.3	010.6	108.6	000.7000	0032.2	038.4	37.95
317.0	001.2000	0019.4	010.6	108.3	000.7000	0032.6	038.5	37.99
318.0	001.2000	0018.5	010.6	108.1	000.7000	0032.8	038.6	38.02
319.0	001.2000	0017.4	010.6	107.9	000.7000	0033.1	038.7	38.04
320.0	001.2000	0017.1	010.6	107.6	000.7000	0033.3	038.8	38.05
321.0	001.2000	0016.2	010.6	107.4	000.7000	0033.5	038.9	38.06
322.0	001.2000	0015.2	010.6	107.2	000.7000	0033.7	039.0	38.06

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
323.0	001.2000	0014.3	010.6	107.0	000.7000	0033.8	039.1	38.05
324.0	001.2000	0012.7	010.6	106.7	000.7000	0034.0	039.2	38.05
325.0	001.2000	0011.3	010.6	106.5	000.7000	0034.1	039.3	38.03
326.0	001.2000	0011.0	010.6	106.3	000.7000	0034.2	039.5	38.01
327.0	001.2000	0010.9	010.6	106.1	000.7000	0034.2	039.6	37.99
328.0	001.2000	0010.8	010.6	105.9	000.7000	0034.3	039.7	37.96
329.0	001.2000	0010.0	010.6	105.7	000.7000	0034.4	039.8	37.93
330.0	001.2000	0009.0	010.6	105.5	000.7000	0034.5	040.0	37.91
331.0	001.2000	0008.1	010.6	105.3	000.7000	0034.6	040.1	37.88
332.0	001.2000	0007.9	010.6	105.1	000.7000	0034.7	040.2	37.86
333.0	001.2000	0008.5	010.6	105.0	000.7000	0034.8	040.4	37.84
334.0	001.2000	0008.8	010.6	104.8	000.7000	0034.9	040.5	37.82
335.0	001.2000	0008.6	010.6	104.6	000.7000	0035.1	040.6	37.81
336.0	001.2000	0009.4	010.6	104.4	000.7000	0035.3	040.8	37.80
337.0	001.2000	0011.0	010.6	104.3	000.7000	0035.4	040.9	37.78
338.0	001.2000	0012.3	010.6	104.1	000.7000	0035.6	041.1	37.76
339.0	001.2000	0013.0	010.6	104.0	000.7000	0035.7	041.2	37.75
340.0	001.2000	0014.0	010.6	103.8	000.7000	0035.9	041.4	37.73
341.0	001.2000	0014.4	010.6	103.7	000.7000	0036.0	041.5	37.70
342.0	001.2000	0015.0	010.6	103.6	000.7000	0036.1	041.7	37.67
343.0	001.2000	0015.6	010.6	103.4	000.7000	0036.2	041.8	37.64
344.0	001.2000	0015.4	010.6	103.3	000.7000	0036.3	042.0	37.60
345.0	001.2000	0014.7	010.6	103.2	000.7000	0036.3	042.2	37.56
346.0	001.2000	0014.3	010.6	103.1	000.7000	0036.4	042.3	37.52
347.0	001.2000	0014.1	010.6	102.9	000.7000	0036.4	042.5	37.48
348.0	001.2000	0014.3	010.6	102.8	000.7000	0036.4	042.7	37.43
349.0	001.2000	0015.5	010.6	102.7	000.7000	0036.4	042.8	37.38
350.0	001.2000	0016.3	010.6	102.6	000.7000	0036.5	043.0	37.33
351.0	001.2000	0016.8	010.6	102.5	000.7000	0036.5	043.2	37.28
352.0	001.2000	0018.2	010.6	102.4	000.7000	0036.5	043.4	37.24
353.0	001.2000	0018.8	010.6	102.4	000.7000	0036.5	043.5	37.19
354.0	001.2000	0018.7	010.6	102.3	000.7000	0036.5	043.7	37.14
355.0	001.2000	0018.7	010.6	102.2	000.7000	0036.6	043.9	37.09

04-21-2009 USGS 03 SEC Terrain Data

1211041 BNPED20071012AHO

Channel = 202A

Max ERP = 0.7 kW

RCAMSL = 380 M

N. Lat. 36 18 33.0

W. Lng. 97 34 58.0

Protected

60 dBu

OSUNew

Channel = 202A

Max ERP = 1.2 kW

RCAMSL = 331.6 M

N. Lat. 36 07 46.5

W. Lng. 97 05 43.4

Interfering

40 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
054.0	000.7000	0044.0	011.2	307.5	001.2000	0025.0	043.7	38.23	
055.0	000.7000	0044.2	011.2	307.5	001.2000	0024.9	043.5	38.28	
056.0	000.7000	0044.5	011.2	307.5	001.2000	0024.8	043.3	38.33	
057.0	000.7000	0044.8	011.3	307.4	001.2000	0024.8	043.1	38.39	
058.0	000.7000	0045.1	011.3	307.4	001.2000	0024.7	042.9	38.45	
059.0	000.7000	0045.7	011.4	307.4	001.2000	0024.7	042.7	38.51	
060.0	000.7000	0046.2	011.5	307.4	001.2000	0024.7	042.5	38.57	
061.0	000.7000	0046.6	011.5	307.3	001.2000	0024.6	042.3	38.62	
062.0	000.7000	0046.6	011.5	307.2	001.2000	0024.5	042.1	38.68	
063.0	000.7000	0046.7	011.5	307.1	001.2000	0024.4	041.9	38.73	
064.0	000.7000	0047.6	011.6	307.1	001.2000	0024.4	041.7	38.80	
065.0	000.7000	0048.9	011.8	307.2	001.2000	0024.5	041.4	38.88	
066.0	000.7000	0050.2	012.0	307.2	001.2000	0024.6	041.2	38.96	
067.0	000.7000	0051.4	012.1	307.3	001.2000	0024.6	040.9	39.03	
068.0	000.7000	0052.4	012.2	307.2	001.2000	0024.6	040.7	39.11	
069.0	000.7000	0053.3	012.3	307.2	001.2000	0024.5	040.5	39.18	
070.0	000.7000	0054.7	012.5	307.2	001.2000	0024.5	040.2	39.26	
071.0	000.7000	0056.5	012.7	307.3	001.2000	0024.6	039.9	39.35	
072.0	000.7000	0057.7	012.8	307.2	001.2000	0024.6	039.7	39.43	
073.0	000.7000	0057.4	012.7	307.0	001.2000	0024.4	039.5	39.48	
074.0	000.7000	0056.1	012.6	306.7	001.2000	0024.2	039.4	39.52	
075.0	000.7000	0054.4	012.4	306.3	001.2000	0024.2	039.3	39.53	
076.0	000.7000	0053.0	012.3	305.9	001.2000	0024.6	039.3	39.55	
077.0	000.7000	0051.5	012.1	305.5	001.2000	0024.9	039.2	39.57	
078.0	000.7000	0049.9	011.9	305.1	001.2000	0024.5	039.2	39.58	
079.0	000.7000	0048.3	011.7	304.7	001.2000	0023.6	039.2	39.58	
080.0	000.7000	0047.0	011.6	304.3	001.2000	0022.7	039.2	39.59	
081.0	000.7000	0045.9	011.4	303.9	001.2000	0022.0	039.1	39.60	
082.0	000.7000	0044.8	011.3	303.6	001.2000	0021.4	039.1	39.61	
083.0	000.7000	0044.3	011.2	303.3	001.2000	0020.9	039.0	39.64	
084.0	000.7000	0044.0	011.2	303.0	001.2000	0020.6	038.9	39.67	
085.0	000.7000	0043.8	011.1	302.8	001.2000	0020.5	038.8	39.70	
086.0	000.7000	0043.5	011.1	302.5	001.2000	0020.4	038.7	39.73	
087.0	000.7000	0043.3	011.1	302.3	001.2000	0020.3	038.6	39.76	

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
088.0	000.7000	0043.2	011.1	302.0	001.2000	0020.2	038.6	39.79
089.0	000.7000	0043.2	011.1	301.8	001.2000	0019.9	038.4	39.83
090.0	000.7000	0043.1	011.0	301.5	001.2000	0019.7	038.4	39.86
091.0	000.7000	0042.4	011.0	301.2	001.2000	0019.6	038.3	39.86
092.0	000.7000	0041.5	010.8	300.9	001.2000	0019.5	038.3	39.86
093.0	000.7000	0040.3	010.7	300.5	001.2000	0019.2	038.4	39.84
094.0	000.7000	0039.6	010.6	300.2	001.2000	0018.8	038.4	39.84
095.0	000.7000	0039.2	010.5	299.9	001.2000	0018.6	038.4	39.85
096.0	000.7000	0038.9	010.5	299.6	001.2000	0018.5	038.3	39.86
097.0	000.7000	0038.8	010.5	299.4	001.2000	0018.5	038.3	39.88
098.0	000.7000	0038.5	010.4	299.1	001.2000	0018.7	038.2	39.89
099.0	000.7000	0038.0	010.4	298.8	001.2000	0019.0	038.2	39.89
100.0	000.7000	0037.6	010.3	298.5	001.2000	0019.3	038.2	39.89
101.0	000.7000	0036.9	010.2	298.2	001.2000	0019.7	038.3	39.88
102.0	000.7000	0036.6	010.2	298.0	001.2000	0020.1	038.3	39.89
103.0	000.7000	0036.4	010.2	297.7	001.2000	0020.6	038.2	39.89
104.0	000.7000	0035.7	010.1	297.4	001.2000	0021.1	038.3	39.88
105.0	000.7000	0034.8	009.9	297.1	001.2000	0021.5	038.4	39.85
106.0	000.7000	0034.3	009.9	296.8	001.2000	0022.0	038.4	39.84
107.0	000.7000	0033.8	009.8	296.6	001.2000	0022.4	038.4	39.82
108.0	000.7000	0033.0	009.7	296.3	001.2000	0022.9	038.5	39.80
109.0	000.7000	0031.7	009.5	296.0	001.2000	0023.3	038.7	39.75
110.0	000.7000	0030.3	009.3	295.7	001.2000	0023.6	038.9	39.69
111.0	000.7000	0029.0	009.3	295.5	001.2000	0023.9	038.9	39.68
112.0	000.7000	0027.3	009.3	295.2	001.2000	0024.1	038.9	39.69
113.0	000.7000	0024.8	009.3	295.0	001.2000	0024.3	038.9	39.69
114.0	000.7000	0022.7	009.3	294.8	001.2000	0024.5	038.9	39.69
115.0	000.7000	0020.8	009.3	294.5	001.2000	0024.7	038.9	39.69
116.0	000.7000	0019.5	009.3	294.3	001.2000	0024.8	038.9	39.69
117.0	000.7000	0018.5	009.3	294.0	001.2000	0024.9	038.9	39.68
118.0	000.7000	0017.5	009.3	293.8	001.2000	0025.1	038.9	39.68
119.0	000.7000	0016.7	009.3	293.6	001.2000	0025.2	038.9	39.68
120.0	000.7000	0016.3	009.3	293.3	001.2000	0025.2	038.9	39.67
121.0	000.7000	0016.1	009.3	293.1	001.2000	0025.3	038.9	39.66
122.0	000.7000	0015.9	009.3	292.9	001.2000	0025.3	039.0	39.66
123.0	000.7000	0015.9	009.3	292.6	001.2000	0025.3	039.0	39.65
124.0	000.7000	0015.4	009.3	292.4	001.2000	0025.3	039.0	39.64
125.0	000.7000	0014.7	009.3	292.2	001.2000	0025.2	039.1	39.62
126.0	000.7000	0013.5	009.3	291.9	001.2000	0025.1	039.1	39.61
127.0	000.7000	0012.1	009.3	291.7	001.2000	0025.0	039.1	39.60
128.0	000.7000	0011.0	009.3	291.5	001.2000	0025.0	039.2	39.58
129.0	000.7000	0011.6	009.3	291.2	001.2000	0025.1	039.2	39.57
130.0	000.7000	0013.1	009.3	291.0	001.2000	0025.2	039.3	39.55
131.0	000.7000	0015.1	009.3	290.8	001.2000	0025.4	039.3	39.53
132.0	000.7000	0017.5	009.3	290.6	001.2000	0025.8	039.4	39.51
133.0	000.7000	0019.0	009.3	290.4	001.2000	0026.1	039.5	39.49
134.0	000.7000	0020.3	009.3	290.1	001.2000	0026.5	039.5	39.47
135.0	000.7000	0021.2	009.3	289.9	001.2000	0026.8	039.6	39.45
136.0	000.7000	0022.2	009.3	289.7	001.2000	0027.1	039.7	39.43
137.0	000.7000	0023.2	009.3	289.5	001.2000	0027.4	039.7	39.41
138.0	000.7000	0023.8	009.3	289.3	001.2000	0027.6	039.8	39.38

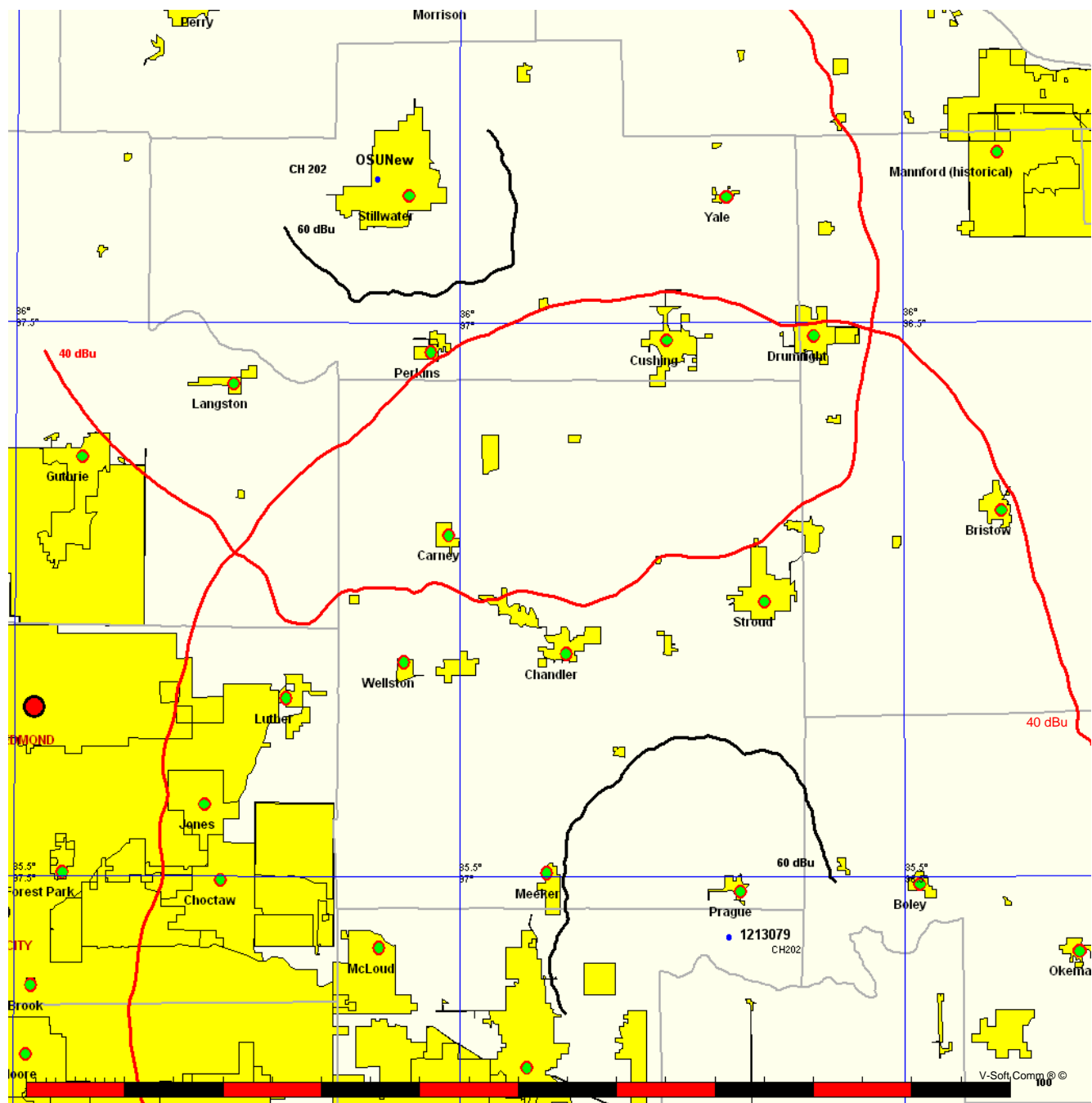
Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
139.0	000.7000	0024.6	009.3	289.1	001.2000	0027.8	039.9	39.36
140.0	000.7000	0025.8	009.3	288.9	001.2000	0027.9	040.0	39.33
141.0	000.7000	0027.4	009.3	288.7	001.2000	0028.0	040.1	39.30
142.0	000.7000	0029.2	009.3	288.5	001.2000	0028.1	040.2	39.27
143.0	000.7000	0030.8	009.4	288.2	001.2000	0028.2	040.2	39.27
144.0	000.7000	0032.4	009.6	287.8	001.2000	0028.6	040.1	39.30
145.0	000.7000	0034.2	009.9	287.4	001.2000	0029.1	040.0	39.33
146.0	000.7000	0035.5	010.0	287.1	001.2000	0029.6	040.0	39.34
147.0	000.7000	0036.2	010.1	286.8	001.2000	0030.0	040.0	39.32
148.0	000.7000	0036.5	010.2	286.6	001.2000	0030.4	040.1	39.37
149.0	000.7000	0037.1	010.3	286.3	001.2000	0030.9	040.1	39.47
150.0	000.7000	0037.9	010.4	286.0	001.2000	0031.5	040.2	39.57
151.0	000.7000	0038.5	010.4	285.7	001.2000	0032.0	040.3	39.64
152.0	000.7000	0039.0	010.5	285.5	001.2000	0032.2	040.3	39.68
153.0	000.7000	0039.8	010.6	285.2	001.2000	0032.5	040.4	39.70
154.0	000.7000	0040.9	010.8	284.9	001.2000	0032.7	040.5	39.73
155.0	000.7000	0041.6	010.8	284.6	001.2000	0032.8	040.5	39.73
156.0	000.7000	0042.0	010.9	284.4	001.2000	0033.0	040.6	39.72
157.0	000.7000	0042.1	010.9	284.2	001.2000	0033.1	040.8	39.69
158.0	000.7000	0042.7	011.0	283.9	001.2000	0033.1	040.9	39.68
159.0	000.7000	0043.4	011.1	283.7	001.2000	0033.2	041.0	39.66
160.0	000.7000	0043.6	011.1	283.5	001.2000	0033.3	041.2	39.62
161.0	000.7000	0044.1	011.2	283.3	001.2000	0033.4	041.3	39.60
162.0	000.7000	0044.2	011.2	283.1	001.2000	0033.5	041.4	39.58
163.0	000.7000	0045.0	011.3	282.9	001.2000	0033.7	041.6	39.58
164.0	000.7000	0045.8	011.4	282.6	001.2000	0033.9	041.7	39.58
165.0	000.7000	0046.6	011.5	282.4	001.2000	0034.1	041.8	39.59
166.0	000.7000	0047.5	011.6	282.1	001.2000	0034.3	041.9	39.59
167.0	000.7000	0048.7	011.8	281.8	001.2000	0034.6	042.1	39.60
168.0	000.7000	0050.0	011.9	281.5	001.2000	0034.7	042.2	39.59
169.0	000.7000	0051.0	012.0	281.2	001.2000	0034.9	042.3	39.57
170.0	000.7000	0051.9	012.1	281.0	001.2000	0035.0	042.5	39.55
171.0	000.7000	0052.6	012.2	280.8	001.2000	0035.1	042.7	39.51
172.0	000.7000	0054.1	012.4	280.5	001.2000	0035.2	042.8	39.50
173.0	000.7000	0055.0	012.5	280.3	001.2000	0035.4	043.0	39.47
174.0	000.7000	0056.3	012.6	280.0	001.2000	0035.6	043.2	39.46

Oklahoma State University
OSU v. Prague App

FMCommander Single Allocation Study - 04-21-2009 - USGS 03 SEC
OSUNew's Overlaps (In= 5.73 km, Out= 16.38 km)

OSUNew CH 202 A
Lat= 36 07 46.5, Lng= 97 05 43.4
1.2 kW 33.5 M HAAT, 331.6 M COR
Prot.= 60 dBu, Intef.= 40 dBu

1213079 CH 202 A DA BNPED20071022BEP
Lat= 35 26 42.0, Lng= 96 42 06.0
1.5 kW 90 M HAAT, 376 M COR
Prot.= 60 dBu, Intef.= 40 dBu



04-21-2009

USGS 03 SEC Terrain Data

FMOver Analysis

OSUNew

Channel = 202A

Max ERP = 1.2 kW

RCAMSL = 331.6 M

N. Lat. 36 07 46.5

W. Lng. 97 05 43.4

Protected

60 dBu

1213079 BNPED20071022BEP

Channel = 202A

Max ERP = 1.5 kW

RCAMSL = 376 M

N. Lat. 35 26 42.0

W. Lng. 96 42 06.0

Interfering

40 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
095.0	001.2000	0050.0	013.5	343.7	001.5000	0100.5	078.0	36.43	
096.0	001.2000	0050.9	013.7	343.7	001.5000	0100.5	077.7	36.51	
097.0	001.2000	0052.1	013.8	343.7	001.5000	0100.5	077.4	36.59	
098.0	001.2000	0053.5	014.0	343.8	001.5000	0100.5	077.1	36.67	
099.0	001.2000	0054.5	014.1	343.8	001.5000	0100.5	076.8	36.75	
100.0	001.2000	0055.0	014.2	343.8	001.5000	0100.5	076.6	36.82	
101.0	001.2000	0055.5	014.3	343.7	001.5000	0100.5	076.3	36.89	
102.0	001.2000	0056.0	014.3	343.7	001.5000	0100.5	076.1	36.96	
103.0	001.2000	0056.2	014.4	343.6	001.5000	0100.5	075.9	37.03	
104.0	001.2000	0056.1	014.4	343.5	001.5000	0100.4	075.7	37.08	
105.0	001.2000	0056.3	014.4	343.4	001.5000	0100.4	075.4	37.15	
106.0	001.2000	0056.6	014.4	343.3	001.5000	0100.3	075.2	37.21	
107.0	001.2000	0057.1	014.5	343.3	001.5000	0100.3	075.0	37.28	
108.0	001.2000	0057.7	014.5	343.2	001.5000	0100.2	074.7	37.35	
109.0	001.2000	0058.0	014.6	343.1	001.5000	0100.2	074.5	37.41	
110.0	001.2000	0058.1	014.6	343.0	001.5000	0100.1	074.3	37.47	
111.0	001.2000	0058.6	014.7	342.9	001.5000	0100.0	074.0	37.53	
112.0	001.2000	0059.3	014.7	342.8	001.5000	0100.0	073.8	37.60	
113.0	001.2000	0060.0	014.8	342.8	001.5000	0099.9	073.5	37.67	
114.0	001.2000	0060.5	014.9	342.7	001.5000	0099.8	073.3	37.73	
115.0	001.2000	0061.4	015.0	342.6	001.5000	0099.7	073.0	37.80	
116.0	001.2000	0062.7	015.1	342.5	001.5000	0099.7	072.7	37.89	
117.0	001.2000	0064.3	015.3	342.5	001.5000	0099.6	072.4	37.97	
118.0	001.2000	0065.8	015.5	342.4	001.5000	0099.6	072.1	38.06	
119.0	001.2000	0067.6	015.7	342.4	001.5000	0099.6	071.8	38.16	
120.0	001.2000	0069.2	015.9	342.3	001.5000	0099.5	071.4	38.25	
121.0	001.2000	0070.5	016.1	342.3	001.5000	0099.4	071.1	38.34	
122.0	001.2000	0071.3	016.2	342.1	001.5000	0099.4	070.9	38.41	
123.0	001.2000	0070.3	016.0	341.9	001.5000	0099.3	070.8	38.43	
124.0	001.2000	0068.2	015.8	341.6	001.5000	0099.1	070.8	38.41	
125.0	001.2000	0066.2	015.5	341.3	001.5000	0098.8	070.8	38.39	
126.0	001.2000	0064.3	015.3	341.0	001.5000	0098.7	070.9	38.37	
127.0	001.2000	0062.6	015.1	340.8	001.5000	0098.6	070.9	38.36	
128.0	001.2000	0061.6	015.0	340.5	001.5000	0098.5	070.8	38.37	
129.0	001.2000	0061.1	014.9	340.3	001.5000	0098.4	070.7	38.39	
130.0	001.2000	0060.7	014.9	340.1	001.5000	0098.4	070.6	38.42	
131.0	001.2000	0060.4	014.9	339.9	001.5000	0098.3	070.6	38.44	

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
132.0	001.2000	0060.3	014.9	339.7	001.5000	0098.3	070.4	38.48
133.0	001.2000	0059.9	014.8	339.5	001.5000	0098.2	070.4	38.50
134.0	001.2000	0058.6	014.7	339.3	001.5000	0098.2	070.4	38.48
135.0	001.2000	0057.3	014.5	339.1	001.5000	0098.0	070.4	38.46
136.0	001.2000	0056.4	014.4	338.8	001.5000	0097.8	070.4	38.45
137.0	001.2000	0055.3	014.3	338.6	001.5000	0097.5	070.5	38.43
138.0	001.2000	0053.6	014.0	338.4	001.5000	0097.3	070.6	38.38
139.0	001.2000	0051.7	013.8	338.1	001.5000	0097.3	070.7	38.33
140.0	001.2000	0049.8	013.5	337.9	001.5000	0097.3	070.9	38.28
141.0	001.2000	0048.0	013.3	337.6	001.5000	0097.5	071.1	38.25
142.0	001.2000	0046.7	013.1	337.4	001.5000	0097.7	071.2	38.22
143.0	001.2000	0046.0	013.0	337.2	001.5000	0097.9	071.2	38.22
144.0	001.2000	0046.2	013.0	337.0	001.5000	0098.1	071.2	38.25
145.0	001.2000	0046.5	013.1	336.9	001.5000	0098.3	071.1	38.29
146.0	001.2000	0046.9	013.1	336.7	001.5000	0098.5	071.0	38.34
147.0	001.2000	0047.2	013.2	336.5	001.5000	0098.6	070.9	38.37
148.0	001.2000	0047.2	013.1	336.3	001.5000	0098.7	070.9	38.38
149.0	001.2000	0047.0	013.1	336.2	001.5000	0098.7	070.9	38.38
150.0	001.2000	0047.2	013.2	336.0	001.5000	0098.7	070.8	38.40
151.0	001.2000	0046.8	013.1	335.8	001.5000	0098.7	070.8	38.38
152.0	001.2000	0046.7	013.1	335.6	001.5000	0098.6	070.8	38.38
153.0	001.2000	0046.6	013.1	335.4	001.5000	0098.4	070.8	38.37
154.0	001.2000	0046.3	013.0	335.2	001.5000	0098.2	070.9	38.34
155.0	001.2000	0045.1	012.9	335.0	001.5000	0098.0	071.0	38.28
156.0	001.2000	0043.5	012.6	334.9	001.5000	0097.8	071.3	38.20
157.0	001.2000	0042.4	012.5	334.7	001.5000	0097.6	071.4	38.15
158.0	001.2000	0041.6	012.3	334.5	001.5000	0097.4	071.6	38.10
159.0	001.2000	0040.7	012.2	334.4	001.5000	0097.2	071.7	38.04
160.0	001.2000	0039.8	012.1	334.2	001.5000	0097.1	071.9	37.99
161.0	001.2000	0039.3	012.0	334.1	001.5000	0096.9	072.0	37.95
162.0	001.2000	0039.2	012.0	333.9	001.5000	0096.9	072.0	37.94
163.0	001.2000	0039.5	012.0	333.7	001.5000	0097.0	072.0	37.95
164.0	001.2000	0039.6	012.0	333.6	001.5000	0097.1	072.0	37.95
165.0	001.2000	0039.2	012.0	333.4	001.5000	0097.2	072.1	37.92
166.0	001.2000	0039.2	012.0	333.2	001.5000	0097.1	072.2	37.91
167.0	001.2000	0038.8	011.9	333.1	001.5000	0097.1	072.3	37.88
168.0	001.2000	0037.6	011.8	333.0	001.5000	0097.1	072.5	37.81
169.0	001.2000	0036.6	011.6	332.9	001.5000	0097.0	072.7	37.75
170.0	001.2000	0035.7	011.5	332.7	001.5000	0096.9	072.9	37.69
171.0	001.2000	0035.0	011.4	332.6	001.5000	0096.8	073.0	37.64
172.0	001.2000	0034.6	011.3	332.5	001.5000	0096.8	073.2	37.60
173.0	001.2000	0034.8	011.3	332.3	001.5000	0096.7	073.2	37.58
174.0	001.2000	0035.7	011.5	332.1	001.5000	0096.5	073.2	37.59
175.0	001.2000	0036.0	011.5	332.0	001.5000	0096.4	073.2	37.57
176.0	001.2000	0035.3	011.4	331.9	001.5000	0096.3	073.4	37.52
177.0	001.2000	0035.2	011.4	331.7	001.5000	0096.1	073.5	37.48
178.0	001.2000	0034.9	011.4	331.6	001.5000	0095.9	073.6	37.43
179.0	001.2000	0034.9	011.3	331.5	001.5000	0095.7	073.7	37.39
180.0	001.2000	0034.8	011.3	331.4	001.5000	0095.5	073.8	37.35
181.0	001.2000	0034.8	011.3	331.2	001.5000	0095.4	073.9	37.32
182.0	001.2000	0035.0	011.4	331.1	001.5000	0095.3	074.0	37.29

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
183.0	001.2000	0035.5	011.4	330.9	001.5000	0095.2	074.0	37.27
184.0	001.2000	0035.4	011.4	330.8	001.5000	0095.1	074.1	37.23
185.0	001.2000	0035.8	011.5	330.6	001.5000	0095.0	074.2	37.21
186.0	001.2000	0036.8	011.6	330.5	001.5000	0095.0	074.2	37.21
187.0	001.2000	0038.6	011.9	330.2	001.5000	0094.9	074.1	37.24
188.0	001.2000	0040.6	012.2	329.9	001.5000	0094.8	074.0	37.26
189.0	001.2000	0041.8	012.4	329.7	001.5000	0094.5	074.0	37.25
190.0	001.2000	0042.0	012.4	329.6	001.5000	0094.2	074.1	37.20
191.0	001.2000	0042.1	012.4	329.5	001.5000	0093.9	074.2	37.14
192.0	001.2000	0042.0	012.4	329.3	001.5000	0093.6	074.4	37.08
193.0	001.2000	0041.2	012.3	329.3	001.5000	0093.5	074.6	37.01
194.0	001.2000	0039.3	012.0	329.3	001.5000	0093.6	075.0	36.92
195.0	001.2000	0037.3	011.7	329.4	001.5000	0093.7	075.3	36.82
196.0	001.2000	0035.6	011.5	329.4	001.5000	0093.8	075.6	36.74
197.0	001.2000	0034.7	011.3	329.4	001.5000	0093.7	075.9	36.67
198.0	001.2000	0034.3	011.3	329.3	001.5000	0093.6	076.1	36.60
199.0	001.2000	0034.0	011.2	329.2	001.5000	0093.4	076.2	36.55
200.0	001.2000	0033.7	011.2	329.2	001.5000	0093.2	076.4	36.49
201.0	001.2000	0033.7	011.2	329.1	001.5000	0093.0	076.6	36.43
202.0	001.2000	0033.1	011.1	329.0	001.5000	0092.9	076.8	36.37
203.0	001.2000	0032.4	011.0	329.0	001.5000	0092.9	077.0	36.31
204.0	001.2000	0031.7	010.9	329.0	001.5000	0092.8	077.2	36.25
205.0	001.2000	0031.0	010.8	329.0	001.5000	0092.8	077.4	36.18
206.0	001.2000	0030.1	010.6	329.0	001.5000	0092.8	077.7	36.12
207.0	001.2000	0028.6	010.6	328.9	001.5000	0092.6	077.8	36.07
208.0	001.2000	0027.8	010.6	328.9	001.5000	0092.5	078.0	36.01
209.0	001.2000	0027.7	010.6	328.8	001.5000	0092.4	078.1	35.96
210.0	001.2000	0027.0	010.6	328.7	001.5000	0092.2	078.3	35.91
211.0	001.2000	0026.4	010.6	328.7	001.5000	0092.1	078.5	35.86
212.0	001.2000	0026.0	010.6	328.6	001.5000	0092.0	078.6	35.81
213.0	001.2000	0025.8	010.6	328.6	001.5000	0091.9	078.8	35.76
214.0	001.2000	0025.7	010.6	328.5	001.5000	0091.9	079.0	35.71
215.0	001.2000	0025.9	010.6	328.4	001.5000	0091.8	079.1	35.66

04-21-2009 USGS 03 SEC Terrain Data

1213079 BNPED20071022BEP
 Channel = 202A
 Max ERP = 1.5 kW
 RCAMSL = 376 M
 N. Lat. 35 26 42.0
 W. Lng. 96 42 06.0
 Protected
 60 dBu

OSUNew
 Channel = 202A
 Max ERP = 1.2 kW
 RCAMSL = 331.6 M
 N. Lat. 36 07 46.5
 W. Lng. 97 05 43.4
 Interfering
 40 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
275.0	001.5000	0065.8	016.5	165.6	001.2000	0039.2	076.9	32.13	
276.0	001.5000	0065.2	016.4	165.4	001.2000	0039.2	076.7	32.18	
277.0	001.5000	0065.7	016.5	165.4	001.2000	0039.2	076.4	32.24	
278.0	001.5000	0066.5	016.6	165.4	001.2000	0039.2	076.1	32.30	
279.0	001.5000	0067.8	016.7	165.4	001.2000	0039.2	075.8	32.37	
280.0	001.5000	0068.9	016.9	165.4	001.2000	0039.2	075.4	32.44	
281.0	001.5000	0069.2	016.9	165.4	001.2000	0039.2	075.2	32.50	
282.0	001.5000	0069.2	016.9	165.3	001.2000	0039.2	074.9	32.55	
283.0	001.5000	0068.4	016.8	165.1	001.2000	0039.2	074.7	32.60	
284.0	001.5000	0068.5	016.8	165.0	001.2000	0039.2	074.4	32.66	
285.0	001.5000	0070.7	017.1	165.1	001.2000	0039.2	074.0	32.74	
286.0	001.5000	0073.0	017.4	165.2	001.2000	0039.2	073.6	32.82	
287.0	001.5000	0074.5	017.6	165.2	001.2000	0039.2	073.2	32.90	
288.0	001.5000	0075.3	017.7	165.1	001.2000	0039.2	072.9	32.97	
289.0	001.5000	0075.7	017.8	165.0	001.2000	0039.2	072.6	33.03	
290.0	001.5000	0075.7	017.8	164.9	001.2000	0039.3	072.4	33.09	
291.0	001.5000	0075.8	017.8	164.7	001.2000	0039.3	072.1	33.15	
292.0	001.5000	0076.8	017.9	164.7	001.2000	0039.4	071.8	33.22	
293.0	001.5000	0078.3	018.1	164.6	001.2000	0039.4	071.4	33.29	
294.0	001.5000	0079.5	018.2	164.6	001.2000	0039.4	071.1	33.37	
295.0	001.5000	0079.7	018.3	164.4	001.2000	0039.5	070.8	33.43	
296.0	001.5000	0080.2	018.3	164.3	001.2000	0039.5	070.6	33.49	
297.0	001.5000	0081.4	018.5	164.2	001.2000	0039.5	070.2	33.56	
298.0	001.5000	0083.5	018.7	164.2	001.2000	0039.6	069.8	33.65	
299.0	001.5000	0084.7	018.9	164.1	001.2000	0039.6	069.5	33.72	
300.0	001.5000	0085.7	019.0	163.9	001.2000	0039.6	069.2	33.79	
301.0	001.5000	0087.0	019.1	163.8	001.2000	0039.6	068.8	33.86	
302.0	001.5000	0088.1	019.3	163.7	001.2000	0039.6	068.5	33.93	
303.0	001.5000	0089.0	019.4	163.5	001.2000	0039.6	068.2	33.99	
304.0	001.5000	0089.1	019.4	163.3	001.2000	0039.5	068.0	34.04	
305.0	001.5000	0089.4	019.4	163.1	001.2000	0039.5	067.7	34.09	
306.0	001.5000	0089.8	019.5	162.9	001.2000	0039.4	067.5	34.13	
307.0	001.5000	0089.0	019.4	162.6	001.2000	0039.4	067.4	34.15	
308.0	001.5000	0087.7	019.2	162.3	001.2000	0039.3	067.3	34.16	

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
309.0	001.5000	0087.4	019.2	162.1	001.2000	0039.2	067.1	34.18
310.0	001.5000	0088.0	019.3	161.9	001.2000	0039.2	066.9	34.23
311.0	001.5000	0089.0	019.4	161.7	001.2000	0039.1	066.6	34.28
312.0	001.5000	0089.8	019.5	161.5	001.2000	0039.1	066.4	34.34
313.0	001.5000	0090.1	019.5	161.2	001.2000	0039.2	066.2	34.38
314.0	001.5000	0089.9	019.5	161.0	001.2000	0039.3	066.0	34.42
315.0	001.5000	0089.9	019.5	160.7	001.2000	0039.3	065.9	34.46
316.0	001.5000	0090.1	019.5	160.4	001.2000	0039.5	065.7	34.51
317.0	001.5000	0090.0	019.5	160.2	001.2000	0039.6	065.6	34.55
318.0	001.5000	0090.1	019.5	159.9	001.2000	0039.9	065.5	34.61
319.0	001.5000	0090.1	019.5	159.6	001.2000	0040.1	065.3	34.66
320.0	001.5000	0089.4	019.4	159.3	001.2000	0040.4	065.3	34.70
321.0	001.5000	0088.0	019.3	159.0	001.2000	0040.7	065.3	34.72
322.0	001.5000	0086.8	019.1	158.7	001.2000	0041.0	065.4	34.74
323.0	001.5000	0086.9	019.1	158.4	001.2000	0041.3	065.3	34.79
324.0	001.5000	0087.4	019.2	158.1	001.2000	0041.5	065.1	34.85
325.0	001.5000	0087.8	019.2	157.8	001.2000	0041.8	065.0	34.90
326.0	001.5000	0089.6	019.4	157.6	001.2000	0042.0	064.7	34.99
327.0	001.5000	0090.7	019.6	157.3	001.2000	0042.2	064.5	35.05
328.0	001.5000	0091.5	019.7	157.0	001.2000	0042.4	064.4	35.11
329.0	001.5000	0092.8	019.8	156.7	001.2000	0042.7	064.2	35.18
330.0	001.5000	0094.8	020.0	156.5	001.2000	0042.9	063.9	35.26
331.0	001.5000	0095.2	020.1	156.2	001.2000	0043.3	063.9	35.32
332.0	001.5000	0096.4	020.2	155.8	001.2000	0043.8	063.7	35.41
333.0	001.5000	0097.1	020.3	155.5	001.2000	0044.4	063.6	35.50
334.0	001.5000	0096.9	020.3	155.2	001.2000	0044.8	063.6	35.54
335.0	001.5000	0097.9	020.4	154.9	001.2000	0045.3	063.5	35.61
336.0	001.5000	0098.7	020.5	154.6	001.2000	0045.7	063.4	35.68
337.0	001.5000	0098.1	020.4	154.3	001.2000	0046.1	063.5	35.70
338.0	001.5000	0097.3	020.3	153.9	001.2000	0046.3	063.6	35.70
339.0	001.5000	0098.0	020.4	153.6	001.2000	0046.5	063.6	35.73
340.0	001.5000	0098.3	020.4	153.3	001.2000	0046.6	063.6	35.73
341.0	001.5000	0098.7	020.5	153.0	001.2000	0046.6	063.6	35.74
342.0	001.5000	0099.3	020.5	152.6	001.2000	0046.6	063.6	35.74
343.0	001.5000	0100.1	020.6	152.3	001.2000	0046.6	063.5	35.74
344.0	001.5000	0100.6	020.7	152.0	001.2000	0046.7	063.6	35.74
345.0	001.5000	0100.1	020.6	151.7	001.2000	0046.7	063.7	35.72
346.0	001.5000	0099.7	020.6	151.4	001.2000	0046.8	063.8	35.69
347.0	001.5000	0099.2	020.5	151.1	001.2000	0046.8	063.9	35.66
348.0	001.5000	0097.7	020.4	150.8	001.2000	0046.9	064.2	35.61
349.0	001.5000	0096.3	020.2	150.5	001.2000	0047.1	064.5	35.56
350.0	001.5000	0095.9	020.2	150.3	001.2000	0047.2	064.6	35.54
351.0	001.5000	0096.1	020.2	150.0	001.2000	0047.2	064.7	35.52
352.0	001.5000	0096.0	020.2	149.7	001.2000	0047.1	064.9	35.48
353.0	001.5000	0095.8	020.1	149.4	001.2000	0047.0	065.0	35.43
354.0	001.5000	0096.7	020.2	149.1	001.2000	0047.0	065.1	35.41
355.0	001.5000	0096.1	020.2	148.8	001.2000	0047.0	065.3	35.37
356.0	001.5000	0094.7	020.0	148.6	001.2000	0047.1	065.6	35.30
357.0	001.5000	0093.5	019.9	148.4	001.2000	0047.1	065.9	35.24
358.0	001.5000	0092.5	019.8	148.2	001.2000	0047.1	066.1	35.18
359.0	001.5000	0092.1	019.7	147.9	001.2000	0047.2	066.3	35.13

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
000.0	001.5000	0090.3	019.5	147.8	001.2000	0047.2	066.7	35.05
001.0	001.5000	0088.9	019.4	147.6	001.2000	0047.2	067.0	34.98
002.0	001.5000	0086.7	019.1	147.5	001.2000	0047.3	067.4	34.89
003.0	001.5000	0084.9	018.9	147.4	001.2000	0047.3	067.8	34.80
004.0	001.5000	0082.7	018.6	147.3	001.2000	0047.3	068.2	34.71
005.0	001.5000	0080.6	018.4	147.2	001.2000	0047.3	068.6	34.61
006.0	001.5000	0081.2	018.4	146.9	001.2000	0047.2	068.7	34.58
007.0	001.5000	0082.1	018.6	146.7	001.2000	0047.2	068.9	34.55
008.0	001.5000	0083.3	018.7	146.4	001.2000	0047.1	069.0	34.52
009.0	001.5000	0084.6	018.9	146.1	001.2000	0047.0	069.1	34.48
010.0	001.5000	0085.8	019.0	145.8	001.2000	0046.9	069.2	34.45
011.0	001.4950	0086.2	019.0	145.6	001.2000	0046.8	069.4	34.39
012.0	001.4900	0086.0	019.0	145.4	001.2000	0046.8	069.7	34.33
013.0	001.4850	0085.8	018.9	145.3	001.2000	0046.7	069.9	34.26
014.0	001.4801	0085.8	018.9	145.1	001.2000	0046.6	070.2	34.19
015.0	001.4751	0086.4	019.0	144.9	001.2000	0046.5	070.4	34.13
016.0	001.4702	0086.6	019.0	144.7	001.2000	0046.4	070.7	34.07
017.0	001.4099	0086.3	018.8	144.7	001.2000	0046.4	071.1	33.97
018.0	001.3509	0086.1	018.5	144.7	001.2000	0046.4	071.5	33.88
019.0	001.2932	0086.5	018.4	144.7	001.2000	0046.4	071.8	33.80
020.0	001.2367	0087.2	018.2	144.6	001.2000	0046.4	072.2	33.72
021.0	001.1863	0087.8	018.1	144.5	001.2000	0046.4	072.5	33.64
022.0	001.1369	0087.9	017.9	144.5	001.2000	0046.4	072.9	33.56
023.0	001.0886	0087.7	017.7	144.5	001.2000	0046.4	073.3	33.47
024.0	001.0413	0086.6	017.3	144.7	001.2000	0046.4	073.7	33.38
025.0	000.9951	0086.6	017.1	144.7	001.2000	0046.4	074.1	33.29
026.0	000.9499	0087.7	017.0	144.6	001.2000	0046.4	074.4	33.22
027.0	000.9058	0088.3	016.9	144.6	001.2000	0046.4	074.7	33.15
028.0	000.8628	0087.6	016.6	144.7	001.2000	0046.4	075.1	33.06
029.0	000.8207	0086.5	016.2	144.9	001.2000	0046.5	075.5	32.97
030.0	000.7798	0085.4	015.8	145.0	001.2000	0046.5	075.9	32.88
031.0	000.7510	0084.8	015.6	145.1	001.2000	0046.6	076.3	32.80
032.0	000.7229	0084.9	015.5	145.1	001.2000	0046.6	076.6	32.73
033.0	000.6952	0085.4	015.4	145.1	001.2000	0046.6	076.9	32.67
034.0	000.6681	0085.1	015.2	145.2	001.2000	0046.6	077.2	32.60
035.0	000.6416	0083.9	014.9	145.3	001.2000	0046.7	077.5	32.52