

KACI-FM 249C2
The Dalles, OR
Proposed Minor Modification
Of Licensed Facility

KACI-FM, by this application, proposes to modify its currently licensed facilities to specify a new antenna site using the following parameters:

Channel:	249
Class:	C2
Antenna Coordinates:	N45-24-36, W121-28-03 (NAD 27)
ASRN:	Not Applicable
Tower Height AMSL:	26 m
COR AMSL:	1430 m
COR AGL:	20 m
COR HAAT:	328 m
ERP:	9.6 kW
Directional Antenna:	YES (see Exhibit 1 for Azimuth Values)

Exhibit 2 demonstrates that the proposed facility provides City-Grade coverage of KACI-FM's community of license – The Dalles, OR. As can be seen in the Exhibit, 100% of The Dalles community boundaries are encompassed by the F(50,50) 70 dBu contour of the proposed facility. Also, no major terrain obstructions are located between the antenna site and the community.

Exhibit 3 is a channel spacings study demonstrating that the proposed facility is fully spaced towards all applications, authorizations, and permits pursuant to Section 73.207 with the exception of KNLR-FM Bend, OR, operating on channel 248C1 and KYCH-FM Portland, OR, operating on channel 246C. The applicant requests Section 73.215 Contour protection processing towards these two stations.

KACI-FM is eligible to request 73.215 Contour Protection towards KNLR-FM as it complies with the minimum separation requirements on its first adjacent channel at its proposed antenna site. The channel spacings study shows that the proposed KACI-FM 249C2 Antenna Location is spaced 148.5 kilometers from KNLR-FM. In order to be eligible for 73.215 Contour Protection, the minimum “C2 to C1” spacing for first adjacent stations must be at least 144 kilometers. The proposed KACI-FM 249C2 Antenna Location satisfies this requirement by 4.5 kilometers.

KACI-FM is also eligible to request 73.215 Contour Protection towards KYCH-FM as it complies with the minimum separation requirements towards the third adjacent channel at its proposed antenna site. The channel spacings study shows that the proposed KACI-FM 249C2 Antenna Location is spaced 96.38 kilometers from KYCH-FM. In order to be eligible for 73.215 Contour Protection, the minimum “C2 to C” spacing for third adjacent stations must be at least 96 kilometers. The proposed KACI-FM 249C2 Antenna Location satisfies this requirement by 0.38 kilometers.

Using the facilities proposed herein, KACI-FM 249C2 complies with the Contour Protection requirements of Part 73.215 towards KNLR-FM and KYCH-FM. The attached Contour Map in Exhibit 4 and Overlap Tabulation Studies in Exhibits 5 through 8 demonstrate that this application complies with the Contour Protection Requirements of Section 73.215.

In reviewing the attached studies, it should be noted that since KNLR-FM utilizes Class C1 facilities with an HAAT below 299 meters, the following overlap studies were conducted assuming “Maximized” Class C1 Facilities for KNLR-FM (100 kW at an HAAT of 299 meters). Also, since KYCH-FM utilizes Class C facilities with an HAAT below 600 meters, the following overlap studies were conducted assuming “Maximized” Class C Facilities for KYCH-FM (100 kW at an HAAT of 600 meters).

Using the KACI-FM 249C2 technical parameters proposed in this application, Exhibit 5 demonstrates that the F(50,50) 60 dBu Contour for KACI-FM does not overlap the F(50,10) 54 dBu Interfering Contour of KNLR-FM. Likewise, Exhibit 6 demonstrates that the F(50,50) 60

dBu Contour for KNLR-FM does not overlap the F(50,10) 54 dBu Interfering Contour of the instant KACI-FM application on 249C2.

With regard to KYCH-FM, Exhibit 7 demonstrates that the KACI-FM F(50,50) 60 dBu Contour does not overlap the F(50,10) 100 dBu Interfering Contour of KYCH-FM. Likewise, Exhibit 8 demonstrates that the F(50,50) 60 dBu Contour for KYCH-FM does not overlap the F(50,10) 100 dBu Interfering Contour of the instant KACI-FM application on 249C2. Therefore, it appears as though the instant application meets the requirements of Section 73.215.

The proposed antenna site utilizes a new tower. As such, the applicant is in the process of filing the appropriate NEPA and SHPO notifications. As of the date hereof, this process has not yet been completed. According to the FCC's TOWAIR program, FAA registration is not required as the tower is less than 199' in height and there are no airports within 8 kilometers of the coordinates proposed herein.

The proposed FM Facility has been evaluated in terms of potential radiofrequency electromagnetic field exposure at ground level in accordance with OET Bulletin No. 65, Evaluating Compliance with FCC Specified Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields (OET Bulletin 65, Second Edition 97-01, August, 1997). The Commission's FM Model Power Density Prediction program was employed to determine the Field. Using the Shively 6800 Series antenna with 4 sections and 1 wavelength between sections, and the AGL height and ERP proposed in this application, the highest predicted power density 2 meters above ground is less than 73% of the Uncontrolled Standard with a Power Density of 145.3 microwatts per square centimeter at a location 8.2 meters away from the base of the tower (see Exhibit 9).

Even though the site will fully comply with the Uncontrolled Site Standards, access to the transmitting site will be restricted and appropriately marked with warning signs. When it becomes necessary for workers to ascend the tower, appropriate measures, such as reduction or shut down of power if necessary, shall be taken to ensure that the human exposure to radiofrequency radiation will not exceed the FCC guidelines.

The proposed facility should be exempt from environmental processing because the facility would not be located at a location specified in Section 1.1307(a)(1)-(8) of the Commission's Rules.

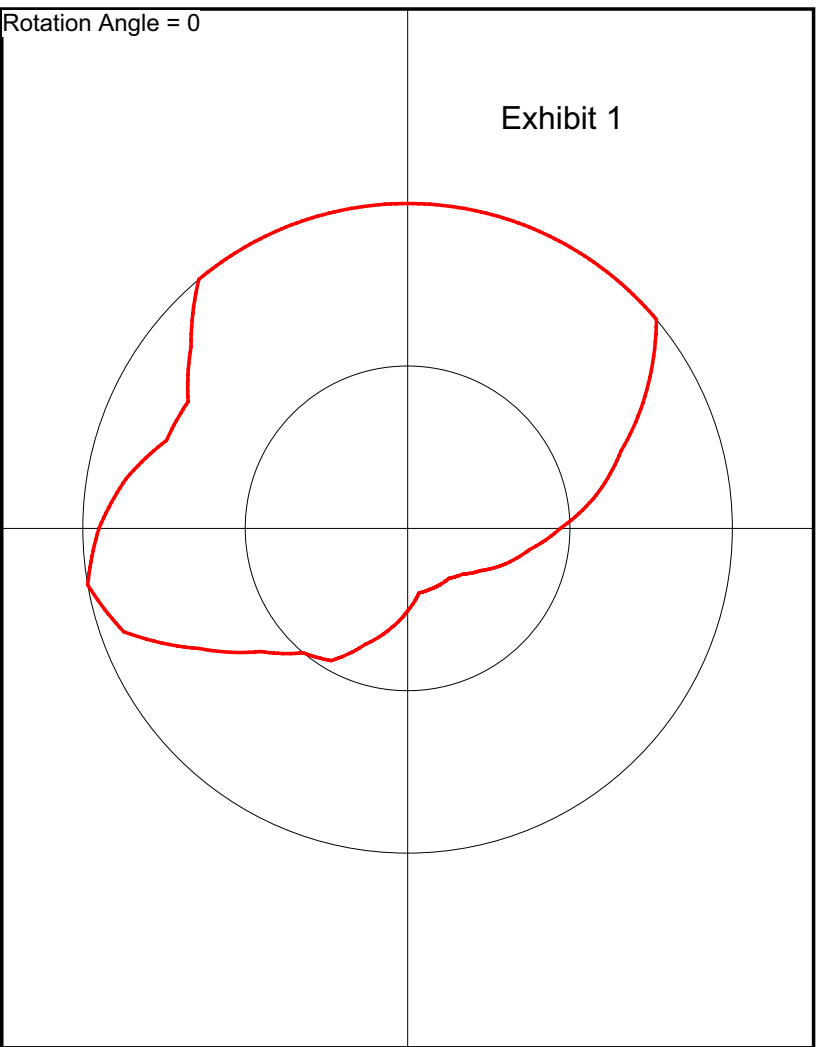
KACI Proposed Antenna Pattern

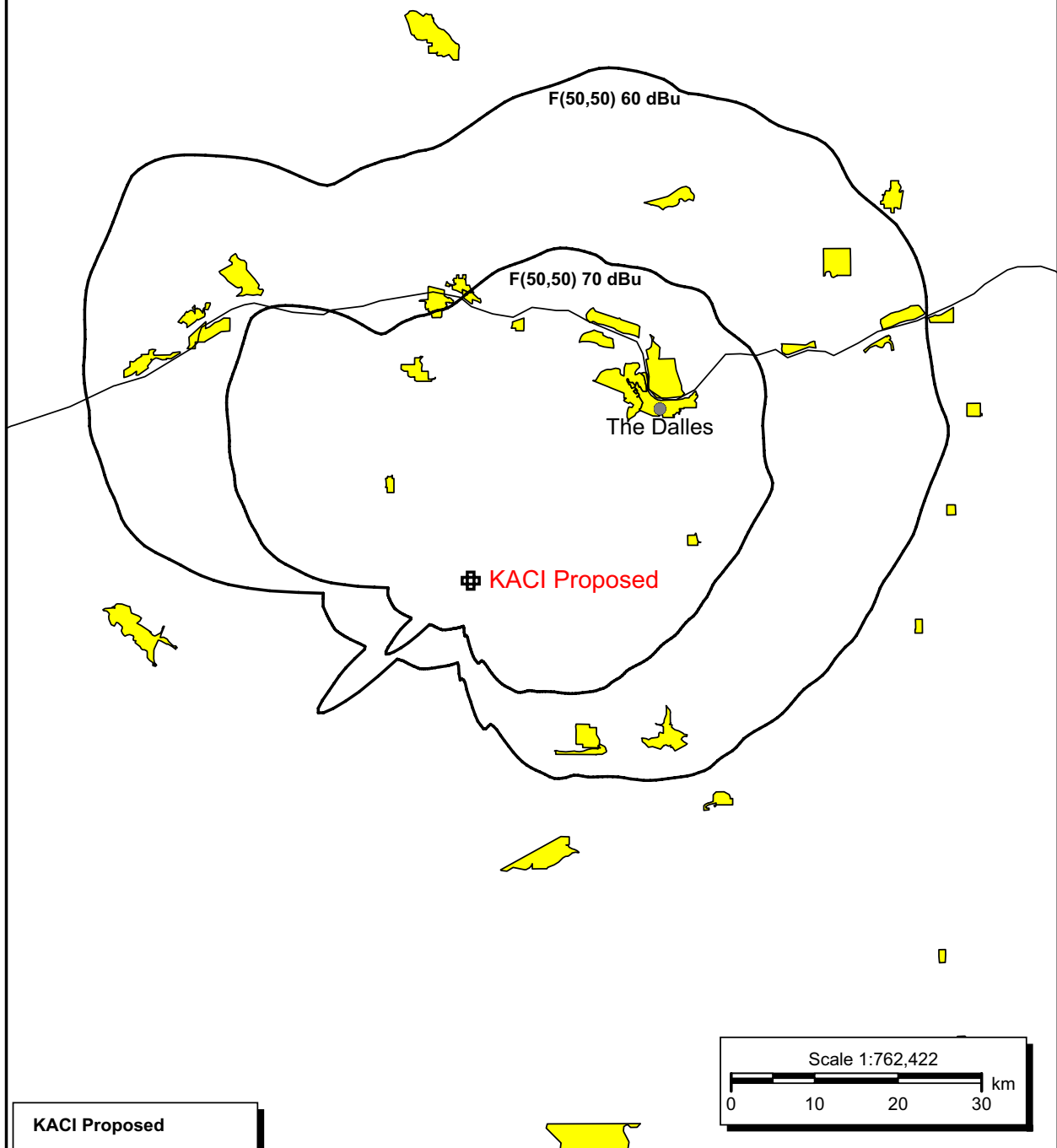
Pre-Rotation Antenna Pattern....

Azimuth (deg)	Effective Field
0.0	1.000
10.0	1.000
20.0	1.000
30.0	1.000
40.0	1.000
50.0	1.000
60.0	0.850
70.0	0.700
80.0	0.590
90.0	0.470
100.0	0.380
110.0	0.320
120.0	0.260
130.0	0.220
140.0	0.200
150.0	0.200
160.0	0.200
170.0	0.202
180.0	0.254
190.0	0.315
200.0	0.380
210.0	0.470
220.0	0.500
230.0	0.590
240.0	0.740
250.0	0.930
260.0	1.000
270.0	0.950
280.0	0.880
290.0	0.790
300.0	0.780
310.0	0.870
320.0	1.000
330.0	1.000
340.0	1.000
350.0	1.000

Rotation Angle = 0

Exhibit 1



**KACI 249C2
Proposed Antenna Site****KACI Proposed**

Latitude: 45-24-36 N
Longitude: 121-28-03 W
ERP: 9.60 kW
HAAT: 327.51 m
Channel: 249 C2
Frequency: 97.7 MHz
AMSL Height: 1430.0 m
Elevation: 1410.0 m
Horiz. Pattern: Directional
Vert. Pattern: No
Prop Model: None

KACI Proposed Antenna Site
Allotment Spacings Study

REFERENCE		DISPLAY DATES
45 24 36 N.	CLASS = C2 Int = B	DATA 01-10-07
121 28 03 W.	Current Spacings	SEARCH 01-10-07
----- Channel 249 - 97.7 MHz -----		

Call	Channel	Location	Azi	Dist	FCC	Margin
ALLO M USE	249C2	The Dalles	OR 29.9	30.58	190.0	-159.42
KACI-FM LIC	249C2	The Dalles	OR 29.7	30.62	190.0	-159.38
RDEL DEL	249C2	The Dalles	OR 29.7	30.62	190.0	-159.38

Current KACI facilities and proposals.

RADD ADD	250C2	Tualatin	OR 275.7	96.38	130.0	-33.62
----------	-------	----------	----------	-------	-------	--------

Note: Proposal community change proposed by KACI in MB Docket 05-10 (recon. pending).

ALLO USE	248C1	Bend	OR 175.8	148.50	158.0	-9.50
KNLR LIC	248C1	Bend	OR 175.8	148.50	158.0	-9.50

Applicant proposes Section 73.215 contour protection towards KNLR (FM) Bend.

ALLO M USE	246C	Portland	OR 275.7	96.38	105.0	-8.62
KYCH-FM LIC	246C	Portland	OR 275.7	96.38	105.0	-8.62

Applicant proposes Section 73.215 contour protection towards KYCH-FM Portland.

KFMV LIC-Z	249C1	Raymond	WA 318.5	224.04	224.0	0.04
ALLO USE	249C1	Raymond	WA 309.6	228.49	224.0	4.49
AL6416 VAC	251C1	Madras	OR 139.1	84.56	79.0	5.56
AL8465 RSV	249C1	Oakville	WA 318.5	231.98	224.0	7.98
KFMV APP-Z	249C	Oakville	WA 326.1	257.27	249.0	8.27
KFMV APP-Z	249C	Oakville	WA 326.1	257.27	249.0	8.27
KFMV APP-Z	249C	Oakville	WA 326.1	257.27	249.0	8.27
RDEL DEL	250C	Eugene	OR 220.3	203.71	188.0	15.71
KNRQ-FM LIC	250C	Eugene	OR 220.3	203.71	188.0	15.71
ALLO M USE	250C	Eugene	OR 220.3	203.78	188.0	15.78
KFMV RSV	249C	Oakville	WA 322.9	265.90	249.0	16.90
KFMV RSV	249C	Oakville	WA 322.9	265.90	249.0	16.90
KFMV RSV	249C	Oakville	WA 322.9	265.90	249.0	16.90
KOLW LIC-N	248C1	Basin City	WA 57.5	186.39	158.0	28.39
ALLO USE	248C1	Basin City	WA 60.2	189.99	158.0	31.99
KOLW RSV	248C1	Basin City	WA 60.2	189.99	158.0	31.99
ALLO USE	249C3	East Wenatchee	WA 22.0	237.12	177.0	60.12
ALLO USE	249C3	East Wenatchee	WA 22.0	237.12	177.0	60.12
KYSN LIC	249C3	East Wenatchee	WA 22.0	237.12	177.0	60.12
ALLO USE	249A	East Wenatchee	WA 22.0	237.14	166.0	71.14

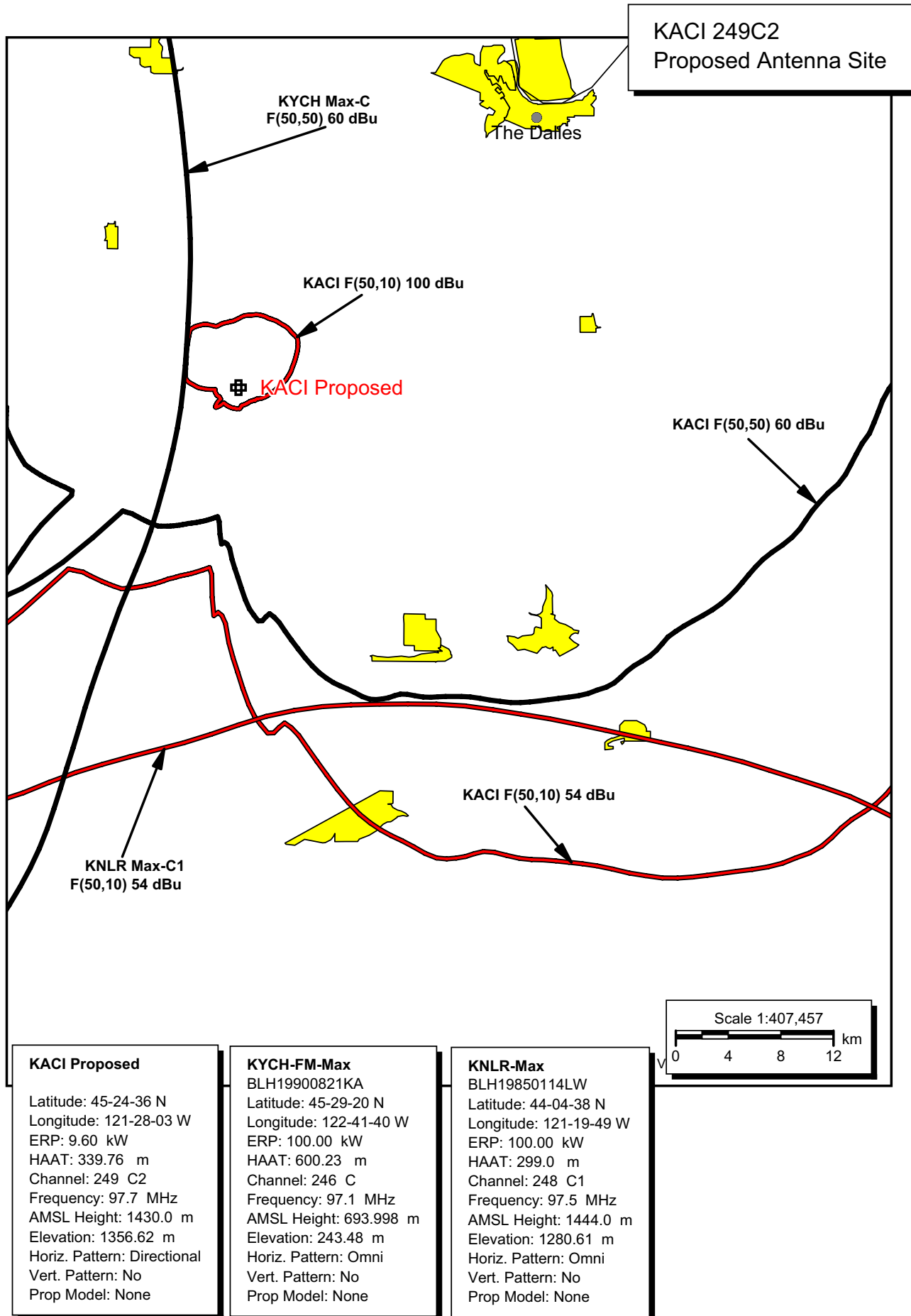


Exhibit 5

01-10-2007 30 Sec. Terrain Data

KACI-F Proposed
Channel = 249C2
Max ERP = 9.6 kW
RCAMSL = 1430 M
N. Lat = 452436
W. Lng = 1212803

KNLR BLH19850114LW (Max C1)
Channel = 248C1
Max ERP = 100 kW
RCAMSL = 1444 M
N. Lat = 44 04 38
W. Lng = 121 19 49

Protected
60 dBu

Interfering
54 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
067.0	005.3282	0580.3	060.3	014.3	100.0000	0438.6	177.4	41.6
068.0	005.1158	0586.2	060.1	014.5	100.0000	0438.6	176.4	41.8
069.0	004.9078	0594.7	060.0	014.7	100.0000	0437.7	175.5	42.0
070.0	004.7040	0606.2	060.0	014.9	100.0000	0437.7	174.7	42.2
071.0	004.5573	0617.3	060.1	015.1	100.0000	0437.7	173.9	42.4
072.0	004.4130	0624.7	060.1	015.3	100.0000	0437.7	173.0	42.6
073.0	004.2709	0625.2	059.8	015.4	100.0000	0437.7	171.9	42.8
074.0	004.1312	0618.7	059.2	015.4	100.0000	0437.7	170.8	43.0
075.0	003.9938	0608.0	058.5	015.4	100.0000	0437.7	169.5	43.3
076.0	003.8588	0597.3	057.7	015.3	100.0000	0437.7	168.2	43.6
077.0	003.7260	0588.3	057.0	015.3	100.0000	0437.7	167.0	43.8
078.0	003.5956	0579.1	056.3	015.2	100.0000	0437.7	165.8	44.1
079.0	003.4675	0573.1	055.7	015.2	100.0000	0437.7	164.7	44.3
080.0	003.3418	0568.5	055.1	015.2	100.0000	0437.7	163.5	44.6
081.0	003.2072	0565.9	054.6	015.1	100.0000	0437.7	162.5	44.8
082.0	003.0754	0565.2	054.1	015.1	100.0000	0437.7	161.4	45.0
083.0	002.9464	0565.2	053.7	015.1	100.0000	0437.7	160.4	45.2
084.0	002.8201	0564.4	053.3	015.1	100.0000	0437.7	159.3	45.4
085.0	002.6966	0559.8	052.6	015.0	100.0000	0437.7	158.2	45.7
086.0	002.5759	0555.1	051.9	014.9	100.0000	0437.7	157.2	45.9
087.0	002.4579	0551.8	051.3	014.8	100.0000	0437.7	156.1	46.1
088.0	002.3427	0549.0	050.7	014.6	100.0000	0437.7	155.1	46.3
089.0	002.2303	0546.5	050.1	014.5	100.0000	0437.7	154.1	46.6
090.0	002.1206	0543.9	049.5	014.4	100.0000	0438.6	153.1	46.8
091.0	002.0402	0542.4	049.0	014.3	100.0000	0438.6	152.1	47.0
092.0	001.9613	0544.3	048.7	014.3	100.0000	0438.6	151.2	47.2
093.0	001.8840	0546.3	048.4	014.2	100.0000	0438.6	150.3	47.4
094.0	001.8082	0548.3	048.1	014.2	100.0000	0438.6	149.4	47.5
095.0	001.7340	0546.4	047.6	014.0	100.0000	0438.6	148.5	47.7
096.0	001.6613	0547.8	047.3	014.0	100.0000	0438.6	147.7	47.9
097.0	001.5902	0550.1	046.9	013.9	100.0000	0438.6	146.8	48.1
098.0	001.5207	0552.7	046.6	013.8	100.0000	0438.6	146.0	48.3
099.0	001.4527	0552.4	046.2	013.7	100.0000	0438.6	145.1	48.5
100.0	001.3862	0548.1	045.5	013.4	100.0000	0439.9	144.3	48.7
101.0	001.3428	0543.9	045.0	013.2	100.0000	0439.9	143.4	48.8
102.0	001.3001	0541.4	044.6	013.1	100.0000	0439.9	142.6	49.0
103.0	001.2580	0541.3	044.3	013.0	100.0000	0439.9	141.9	49.2
104.0	001.2167	0541.5	044.0	012.9	100.0000	0439.9	141.1	49.4
105.0	001.1760	0539.5	043.6	012.7	100.0000	0439.9	140.3	49.6
106.0	001.1360	0534.9	043.1	012.5	100.0000	0440.6	139.6	49.8
107.0	001.0967	0529.0	042.5	012.2	100.0000	0440.6	138.9	49.9
108.0	001.0582	0525.2	042.0	012.0	100.0000	0440.6	138.2	50.1
109.0	001.0202	0524.5	041.6	011.8	100.0000	0440.6	137.5	50.3
110.0	000.9830	0525.6	041.3	011.6	100.0000	0440.6	136.9	50.5
111.0	000.9465	0527.5	041.1	011.5	100.0000	0441.3	136.2	50.6
112.0	000.9107	0529.5	040.8	011.3	100.0000	0441.3	135.5	50.8
113.0	000.8756	0530.6	040.5	011.2	100.0000	0441.3	134.9	51.0
114.0	000.8411	0530.7	040.2	010.9	100.0000	0441.3	134.3	51.1
115.0	000.8074	0529.5	039.8	010.7	100.0000	0441.3	133.7	51.3
116.0	000.7743	0527.3	039.3	010.4	100.0000	0441.7	133.1	51.4

117.0	000.7419	0525.2	038.9		010.2	100.0000	0441.7	132.6	51.6
118.0	000.7102	0523.8	038.4		009.9	100.0000	0441.7	132.1	51.7
119.0	000.6793	0524.2	038.1		009.7	100.0000	0441.7	131.6	51.8
120.0	000.6490	0526.2	037.8		009.5	100.0000	0442.7	131.1	52.0
121.0	000.6291	0529.7	037.6		009.3	100.0000	0442.7	130.5	52.1
122.0	000.6096	0533.3	037.5		009.2	100.0000	0442.7	129.9	52.3
123.0	000.5904	0535.3	037.4		009.0	100.0000	0442.7	129.4	52.4
124.0	000.5715	0534.9	037.1		008.7	100.0000	0442.7	128.9	52.5
125.0	000.5530	0534.7	036.8		008.5	100.0000	0443.9	128.5	52.7
126.0	000.5347	0536.9	036.6		008.3	100.0000	0443.9	128.0	52.8
127.0	000.5167	0541.5	036.5		008.1	100.0000	0443.9	127.5	52.9
128.0	000.4990	0545.4	036.3		007.9	100.0000	0443.9	127.0	53.1
129.0	000.4817	0546.4	036.1		007.7	100.0000	0443.9	126.6	53.2
130.0	000.4646	0544.2	035.7		007.4	100.0000	0445.4	126.2	53.3
131.0	000.4562	0539.6	035.3		007.1	100.0000	0445.4	125.9	53.4
132.0	000.4479	0533.0	034.9		006.8	100.0000	0445.4	125.7	53.4
133.0	000.4396	0525.1	034.4		006.5	100.0000	0447.0	125.4	53.5
134.0	000.4315	0517.1	033.9		006.1	100.0000	0447.0	125.3	53.6
135.0	000.4234	0509.7	033.5		005.8	100.0000	0447.0	125.1	53.6
136.0	000.4153	0502.9	033.0		005.5	100.0000	0448.2	124.9	53.7
137.0	000.4074	0496.1	032.6		005.1	100.0000	0448.2	124.8	53.7
138.0	000.3995	0488.8	032.1		004.8	100.0000	0448.2	124.7	53.8
139.0	000.3917	0480.2	031.7		004.5	100.0000	0449.6	124.6	53.8
140.0	000.3840	0468.9	031.1		004.1	100.0000	0449.6	124.6	53.8
141.0	000.3840	0453.8	030.5		003.8	100.0000	0449.6	124.7	53.8
142.0	000.3840	0436.8	029.9		003.4	100.0000	0451.1	124.8	53.8
143.0	000.3840	0421.6	029.4		003.1	100.0000	0451.1	124.8	53.8
144.0	000.3840	0409.1	029.0		002.8	100.0000	0451.1	124.8	53.8
145.0	000.3840	0398.2	028.6		002.5	100.0000	0451.1	124.8	53.8
146.0	000.3840	0388.0	028.3		002.2	100.0000	0451.4	124.8	53.8
147.0	000.3840	0379.0	028.0		002.0	100.0000	0451.4	124.7	53.9
148.0	000.3840	0371.2	027.7		001.7	100.0000	0451.4	124.7	53.9
149.0	000.3840	0362.8	027.4		001.5	100.0000	0451.0	124.7	53.9
150.0	000.3840	0352.5	027.0		001.2	100.0000	0451.0	124.7	53.8
151.0	000.3840	0342.3	026.6		000.9	100.0000	0451.0	124.8	53.8
152.0	000.3840	0335.5	026.4		000.7	100.0000	0451.0	124.8	53.8
153.0	000.3840	0332.9	026.3		000.5	100.0000	0450.7	124.7	53.8
154.0	000.3840	0331.3	026.2		000.3	100.0000	0450.7	124.6	53.9
155.0	000.3840	0328.3	026.1		000.1	100.0000	0450.7	124.5	53.9
156.0	000.3840	0324.6	025.9		359.8	100.0000	0450.7	124.4	53.9
157.0	000.3840	0319.0	025.7		359.6	100.0000	0450.7	124.4	53.9
158.0	000.3840	0308.8	025.3		359.4	100.0000	0450.3	124.6	53.8
159.0	000.3840	0296.1	024.8		359.1	100.0000	0450.3	125.0	53.8
160.0	000.3840	0285.0	024.4		358.8	100.0000	0450.3	125.2	53.7
161.0	000.3848	0275.2	024.0		358.6	100.0000	0450.3	125.5	53.6
162.0	000.3855	0265.0	023.6		358.4	100.0000	0449.7	125.7	53.5
163.0	000.3863	0253.4	023.1		358.1	100.0000	0449.7	126.1	53.5
164.0	000.3871	0240.4	022.5		357.9	100.0000	0449.7	126.5	53.3
165.0	000.3878	0225.9	021.9		357.7	100.0000	0449.7	127.1	53.2
166.0	000.3886	0210.4	021.2		357.4	100.0000	0447.9	127.7	53.0
167.0	000.3894	0193.7	020.4		357.2	100.0000	0447.9	128.4	52.8
168.0	000.3902	0177.6	019.6		357.0	100.0000	0447.9	129.1	52.6
169.0	000.3909	0164.0	018.9		356.8	100.0000	0447.9	129.8	52.5
170.0	000.3917	0152.1	018.1		356.6	100.0000	0447.9	130.5	52.3
171.0	000.4121	0141.5	017.7		356.5	100.0000	0445.1	130.9	52.1
172.0	000.4331	0133.9	017.3		356.3	100.0000	0445.1	131.2	52.0
173.0	000.4546	0133.5	017.6		356.2	100.0000	0445.1	131.0	52.1
174.0	000.4765	0134.1	017.8		356.1	100.0000	0445.1	130.7	52.2
175.0	000.4990	0130.8	017.8		356.0	100.0000	0445.1	130.7	52.2
176.0	000.5221	0121.3	017.3		355.8	100.0000	0445.1	131.2	52.0
177.0	000.5456	0112.5	016.9		355.7	100.0000	0445.1	131.7	51.9
178.0	000.5697	0102.2	016.1		355.6	100.0000	0445.1	132.4	51.7
179.0	000.5943	0091.1	015.3		355.5	100.0000	0440.7	133.3	51.4
180.0	000.6194	0080.5	014.4		355.4	100.0000	0440.7	134.1	51.2
181.0	000.6495	0071.1	013.8		355.3	100.0000	0440.7	134.8	51.0
182.0	000.6803	0061.7	013.1		355.3	100.0000	0440.7	135.5	50.8
183.0	000.7118	0052.3	012.2		355.2	100.0000	0440.7	136.4	50.6

184.0	000.7441	0048.6	011.9		355.2	100.0000	0440.7	136.7	50.5
185.0	000.7770	0046.8	011.8		355.1	100.0000	0440.7	136.9	50.5
186.0	000.8107	0047.0	012.0		355.0	100.0000	0440.7	136.8	50.5
187.0	000.8451	0040.7	011.2		355.0	100.0000	0440.7	137.5	50.3
188.0	000.8802	0033.2	010.3		355.0	100.0000	0440.7	138.5	50.1
189.0	000.9160	0026.6	009.9		354.9	100.0000	0440.7	138.8	50.0
190.0	000.9526	0021.1	010.0		354.9	100.0000	0440.7	138.8	50.0
191.0	000.9923	0017.9	010.1		354.8	100.0000	0440.7	138.7	50.0
192.0	001.0328	0013.6	010.2		354.7	100.0000	0440.7	138.7	50.0
193.0	001.0741	0004.1	010.3		354.6	100.0000	0440.7	138.7	50.0
194.0	001.1163	-0007.3	010.4		354.5	100.0000	0440.7	138.6	50.0
195.0	001.1593	-0019.5	010.5		354.4	100.0000	0436.2	138.6	49.9
196.0	001.2030	-0036.5	010.6		354.4	100.0000	0436.2	138.6	49.9
197.0	001.2476	-0056.8	010.7		354.3	100.0000	0436.2	138.6	49.9
198.0	001.2930	-0075.6	010.8		354.2	100.0000	0436.2	138.5	49.9
199.0	001.3392	-0090.2	010.9		354.1	100.0000	0436.2	138.5	49.9
200.0	001.3862	-0101.8	011.0		354.0	100.0000	0436.2	138.5	49.9
201.0	001.4527	-0114.3	011.1		353.9	100.0000	0436.2	138.5	49.9
202.0	001.5207	-0125.9	011.2		353.8	100.0000	0436.2	138.5	49.9
203.0	001.5902	-0134.4	011.4		353.7	100.0000	0436.2	138.5	49.9
204.0	001.6613	-0142.2	011.5		353.6	100.0000	0436.2	138.5	49.9
205.0	001.7340	-0147.7	011.6		353.5	100.0000	0436.2	138.5	49.9
206.0	001.8082	-0148.9	011.7		353.5	100.0000	0432.6	138.5	49.8
207.0	001.8840	-0148.8	011.8		353.4	100.0000	0432.6	138.5	49.8
208.0	001.9613	-0149.7	011.9		353.3	100.0000	0432.6	138.5	49.8
209.0	002.0402	-0150.5	012.1		353.2	100.0000	0432.6	138.6	49.8
210.0	002.1206	-0154.5	012.2		353.1	100.0000	0432.6	138.6	49.8
211.0	002.1478	-0165.3	012.2		353.0	100.0000	0432.6	138.7	49.8
212.0	002.1751	-0180.8	012.2		352.9	100.0000	0432.6	138.8	49.7
213.0	002.2026	-0199.6	012.3		352.8	100.0000	0432.6	138.9	49.7
214.0	002.2303	-0218.4	012.3		352.8	100.0000	0432.6	139.0	49.7
215.0	002.2582	-0230.5	012.4		352.7	100.0000	0432.6	139.1	49.7
216.0	002.2862	-0228.4	012.4		352.6	100.0000	0432.6	139.3	49.6
217.0	002.3144	-0208.4	012.4		352.5	100.0000	0432.6	139.4	49.6
218.0	002.3427	-0170.5	012.5		352.5	100.0000	0430.2	139.5	49.5
219.0	002.3713	-0122.9	012.5		352.4	100.0000	0430.2	139.7	49.5
220.0	002.4000	-0073.7	012.5		352.3	100.0000	0430.2	139.8	49.4
221.0	002.4872	-0030.1	012.6		352.2	100.0000	0430.2	139.9	49.4
222.0	002.5759	0003.0	012.7		352.1	100.0000	0430.2	140.0	49.4
223.0	002.6662	0027.1	012.9		352.1	100.0000	0430.2	140.1	49.4
224.0	002.7580	0045.5	015.9		351.0	100.0000	0428.2	138.4	49.7
225.0	002.8514	0060.6	018.8		350.0	100.0000	0426.2	136.9	50.0
226.0	002.9464	0073.7	020.8		349.2	100.0000	0424.1	136.1	50.2
227.0	003.0429	0085.2	022.5		348.5	100.0000	0424.1	135.6	50.3
228.0	003.1410	0093.3	023.7		348.0	100.0000	0421.1	135.3	50.3
229.0	003.2406	0095.8	024.1		347.8	100.0000	0421.1	135.4	50.3
230.0	003.3418	0091.4	023.8		347.8	100.0000	0421.1	136.0	50.1
231.0	003.5138	0082.0	022.8		348.1	100.0000	0421.1	136.8	49.9
232.0	003.6902	0070.9	021.6		348.5	100.0000	0421.1	137.7	49.7
233.0	003.8710	0061.4	020.4		348.8	100.0000	0424.1	138.5	49.6
234.0	004.0560	0054.0	019.4		349.1	100.0000	0424.1	139.2	49.4
235.0	004.2454	0047.0	018.2		349.5	100.0000	0426.2	140.0	49.3
236.0	004.4390	0039.4	016.7		350.0	100.0000	0426.2	141.0	49.0
237.0	004.6370	0031.8	015.1		350.6	100.0000	0428.2	141.8	48.9
238.0	004.8394	0026.0	014.9		350.6	100.0000	0428.2	142.2	48.8
239.0	005.0460	0020.7	015.0		350.5	100.0000	0428.2	142.4	48.8
240.0	005.2570	0013.6	015.2		350.4	100.0000	0426.2	142.5	48.7
241.0	005.5304	0003.5	015.4		350.3	100.0000	0426.2	142.7	48.6
242.0	005.8107	-0006.2	015.6		350.2	100.0000	0426.2	142.9	48.6
243.0	006.0980	-0014.9	015.8		350.1	100.0000	0426.2	143.1	48.6
244.0	006.3922	-0022.1	016.0		350.0	100.0000	0426.2	143.3	48.5
245.0	006.6934	-0028.6	016.2		349.9	100.0000	0426.2	143.5	48.5
246.0	007.0014	-0033.2	016.4		349.8	100.0000	0426.2	143.8	48.4
247.0	007.3164	-0034.5	016.7		349.7	100.0000	0426.2	144.0	48.4
248.0	007.6384	-0031.9	016.9		349.6	100.0000	0426.2	144.2	48.3
249.0	007.9672	-0030.9	017.0		349.5	100.0000	0424.1	144.5	48.2
250.0	008.3030	-0034.7	017.2		349.4	100.0000	0424.1	144.8	48.1

251.0	008.4285	-0042.3	017.3		349.3	100.0000	0424.1	145.1	48.1
252.0	008.5549	-0049.7	017.4		349.3	100.0000	0424.1	145.3	48.0
253.0	008.6822	-0054.9	017.4		349.3	100.0000	0424.1	145.6	48.0
254.0	008.8105	-0062.1	017.5		349.2	100.0000	0424.1	145.9	47.9
255.0	008.9398	-0068.8	017.6		349.2	100.0000	0424.1	146.2	47.8
256.0	009.0699	-0072.9	017.7		349.1	100.0000	0424.1	146.5	47.8
257.0	009.2010	-0072.2	017.7		349.1	100.0000	0424.1	146.8	47.7
258.0	009.3331	-0065.1	017.8		349.1	100.0000	0424.1	147.1	47.7
259.0	009.4661	-0056.7	017.9		349.1	100.0000	0424.1	147.5	47.6
260.0	009.6000	-0046.8	017.9		349.0	100.0000	0424.1	147.8	47.5
261.0	009.5042	-0032.8	017.9		349.1	100.0000	0424.1	148.1	47.5
262.0	009.4090	-0019.4	017.8		349.1	100.0000	0424.1	148.4	47.4
263.0	009.3142	-0004.5	017.8		349.1	100.0000	0424.1	148.7	47.3
264.0	009.2198	0011.2	017.7		349.1	100.0000	0424.1	149.0	47.3
265.0	009.1260	0027.7	017.7		349.2	100.0000	0424.1	149.3	47.2
266.0	009.0326	0041.5	020.6		348.1	100.0000	0421.1	150.0	47.0
267.0	008.9398	0057.0	024.1		346.8	100.0000	0418.0	150.9	46.7
268.0	008.8474	0072.8	026.6		345.9	100.0000	0416.5	151.9	46.5
269.0	008.7554	0088.0	029.0		345.1	100.0000	0416.5	152.9	46.3
270.0	008.6640	0099.7	030.7		344.5	100.0000	0416.5	153.8	46.1
271.0	008.5368	0110.9	032.3		344.1	100.0000	0416.7	154.8	45.9
272.0	008.4105	0122.1	033.6		343.7	100.0000	0416.7	155.7	45.7
273.0	008.2852	0133.3	034.8		343.4	100.0000	0417.0	156.7	45.5
274.0	008.1608	0146.5	036.2		342.9	100.0000	0417.0	157.8	45.3
275.0	008.0374	0161.9	037.8		342.5	100.0000	0418.1	159.0	45.1

Exhibit 6

01-10-2007 30 Sec. Terrain Data

KNLR BLH19850114LW (Max C1)
Channel = 248C1
Max ERP = 100 kW
RCAMSL = 1444 M
N. Lat = 44 04 38
W. Lng = 121 19 49

KACI-F Proposed
Channel = 249C2
Max ERP = 9.6 kW
RCAMSL = 1430 M
N. Lat = 452436
W. Lng = 1212803

Protected
60 dBu

Interfering
54 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
285.0	100.0000	0218.0	065.5	201.9	001.5146	-0125.9	141.2	19.8
286.0	100.0000	0225.6	066.2	202.3	001.5395	-0125.9	140.2	20.1
287.0	100.0000	0234.4	066.9	202.6	001.5648	-0134.4	139.1	20.4
288.0	100.0000	0243.8	067.7	203.0	001.5907	-0134.4	138.0	20.6
289.0	100.0000	0253.2	068.5	203.4	001.6162	-0134.4	136.9	20.9
290.0	100.0000	0261.4	069.2	203.7	001.6392	-0142.2	135.7	21.2
291.0	100.0000	0268.4	069.8	204.0	001.6590	-0142.2	134.5	21.5
292.0	100.0000	0274.7	070.3	204.2	001.6772	-0142.2	133.3	21.7
293.0	100.0000	0280.8	070.8	204.5	001.6942	-0142.2	132.1	22.0
294.0	100.0000	0286.5	071.3	204.7	001.7100	-0147.7	130.9	22.3
295.0	100.0000	0291.7	071.7	204.9	001.7236	-0147.7	129.6	22.6
296.0	100.0000	0296.3	072.1	205.0	001.7351	-0147.7	128.4	22.8
297.0	100.0000	0301.1	072.5	205.2	001.7463	-0147.7	127.1	23.1
298.0	100.0000	0306.4	072.9	205.3	001.7577	-0147.7	125.8	23.4
299.0	100.0000	0312.3	073.3	205.5	001.7699	-0147.7	124.5	23.7
300.0	100.0000	0318.3	073.7	205.6	001.7819	-0148.9	123.2	23.9
301.0	100.0000	0323.7	074.1	205.8	001.7919	-0148.9	121.9	24.2
302.0	100.0000	0328.2	074.5	205.9	001.7986	-0148.9	120.6	24.5
303.0	100.0000	0331.6	074.7	205.9	001.8021	-0148.9	119.3	24.7
304.0	100.0000	0334.6	075.0	205.9	001.8034	-0148.9	117.9	25.0
305.0	100.0000	0337.3	075.2	205.9	001.8033	-0148.9	116.6	25.3
306.0	100.0000	0340.0	075.4	205.9	001.8021	-0148.9	115.3	25.5
307.0	100.0000	0342.4	075.5	205.9	001.7992	-0148.9	114.0	25.8
308.0	100.0000	0344.5	075.7	205.8	001.7944	-0148.9	112.6	26.0
309.0	100.0000	0346.4	075.8	205.7	001.7882	-0148.9	111.3	26.3
310.0	100.0000	0348.3	076.0	205.6	001.7809	-0148.9	110.0	26.5
311.0	100.0000	0350.2	076.1	205.5	001.7726	-0148.9	108.7	26.7
312.0	100.0000	0352.1	076.2	205.4	001.7632	-0147.7	107.4	27.0
313.0	100.0000	0354.3	076.4	205.3	001.7532	-0147.7	106.1	27.2
314.0	100.0000	0356.6	076.6	205.1	001.7425	-0147.7	104.7	27.5
315.0	100.0000	0358.8	076.7	205.0	001.7304	-0147.7	103.4	27.7
316.0	100.0000	0360.8	076.9	204.8	001.7164	-0147.7	102.1	27.9
317.0	100.0000	0362.8	077.0	204.6	001.7012	-0147.7	100.8	28.1
318.0	100.0000	0365.2	077.2	204.3	001.6857	-0142.2	099.5	28.4
319.0	100.0000	0368.2	077.4	204.1	001.6705	-0142.2	098.2	28.6
320.0	100.0000	0371.8	077.7	203.9	001.6557	-0142.2	096.9	28.8
321.0	100.0000	0375.7	078.0	203.7	001.6401	-0142.2	095.5	29.0
322.0	100.0000	0379.5	078.2	203.5	001.6230	-0134.4	094.2	29.3
323.0	100.0000	0383.4	078.5	203.2	001.6046	-0134.4	092.8	29.5
324.0	100.0000	0387.3	078.8	202.9	001.5848	-0134.4	091.5	29.7
325.0	100.0000	0391.0	079.1	202.6	001.5627	-0134.4	090.2	29.9
326.0	100.0000	0394.0	079.3	202.2	001.5372	-0125.9	088.9	30.1
327.0	100.0000	0396.6	079.5	201.8	001.5089	-0125.9	087.7	30.3
328.0	100.0000	0399.4	079.7	201.4	001.4796	-0114.3	086.4	30.5
329.0	100.0000	0402.7	080.0	201.0	001.4499	-0114.3	085.2	30.6
330.0	100.0000	0405.8	080.2	200.5	001.4182	-0101.8	083.9	30.8
331.0	100.0000	0408.4	080.4	200.0	001.3843	-0101.8	082.8	30.9
332.0	100.0000	0410.7	080.5	199.4	001.3574	-0090.2	081.6	31.1
333.0	100.0000	0412.7	080.7	198.8	001.3290	-0090.2	080.5	31.2
334.0	100.0000	0414.8	080.9	198.1	001.2993	-0075.6	079.4	31.3

335.0	100.0000	0416.8	081.0		197.5	001.2684	-0056.8	078.3	31.4
336.0	100.0000	0418.8	081.2		196.7	001.2364	-0056.8	077.2	31.5
337.0	100.0000	0420.5	081.3		196.0	001.2027	-0036.5	076.2	31.6
338.0	100.0000	0421.4	081.3		195.2	001.1670	-0019.5	075.3	31.6
339.0	100.0000	0421.5	081.3		194.3	001.1291	-0007.3	074.5	31.6
340.0	100.0000	0420.8	081.3		193.4	001.0895	0004.1	073.7	31.6
341.0	100.0000	0419.5	081.2		192.4	001.0489	0013.6	073.0	31.6
342.0	100.0000	0418.1	081.1		191.4	001.0077	0017.9	072.4	31.5
343.0	100.0000	0417.0	081.0		190.4	000.9668	0021.1	071.8	31.4
344.0	100.0000	0416.7	081.0		189.3	000.9282	0026.6	071.2	31.4
345.0	100.0000	0416.5	081.0		188.3	000.8904	0033.2	070.6	31.6
346.0	100.0000	0416.5	081.0		187.2	000.8527	0040.7	070.1	32.2
347.0	100.0000	0418.0	081.1		186.2	000.8161	0047.0	069.5	32.7
348.0	100.0000	0421.1	081.3		185.1	000.7803	0046.8	068.8	32.6
349.0	100.0000	0424.1	081.5		184.0	000.7442	0048.6	068.2	32.7
350.0	100.0000	0426.2	081.7		182.9	000.7077	0052.3	067.7	33.0
351.0	100.0000	0428.2	081.8		181.7	000.6712	0061.7	067.3	33.6
352.0	100.0000	0430.2	082.0		180.5	000.6350	0071.1	066.9	34.1
353.0	100.0000	0432.6	082.2		179.3	000.6023	0091.1	066.6	35.2
354.0	100.0000	0436.2	082.4		178.1	000.5723	0102.2	066.2	35.8
355.0	100.0000	0440.7	082.8		176.9	000.5425	0112.5	065.8	36.3
356.0	100.0000	0445.1	083.1		175.6	000.5130	0121.3	065.4	36.6
357.0	100.0000	0447.9	083.3		174.3	000.4839	0134.1	065.3	37.1
358.0	100.0000	0449.7	083.4		173.0	000.4555	0133.5	065.2	36.8
359.0	100.0000	0450.3	083.5		171.8	000.4282	0133.9	065.3	36.5
000.0	100.0000	0450.7	083.5		170.5	000.4018	0152.1	065.5	37.2
001.0	100.0000	0451.0	083.5		169.2	000.3911	0164.0	065.8	37.6
002.0	100.0000	0451.4	083.5		168.0	000.3902	0177.6	066.1	38.1
003.0	100.0000	0451.1	083.5		166.8	000.3892	0193.7	066.5	38.6
004.0	100.0000	0449.6	083.4		165.6	000.3883	0210.4	067.0	39.1
005.0	100.0000	0448.2	083.3		164.5	000.3874	0240.4	067.6	40.1
006.0	100.0000	0447.0	083.2		163.4	000.3866	0253.4	068.2	40.3
007.0	100.0000	0445.4	083.1		162.3	000.3858	0265.0	068.9	40.4
008.0	100.0000	0443.9	083.0		161.2	000.3849	0275.2	069.6	40.5
009.0	100.0000	0442.7	082.9		160.2	000.3842	0285.0	070.4	40.5
010.0	100.0000	0441.7	082.8		159.2	000.3840	0296.1	071.2	40.6
011.0	100.0000	0441.3	082.8		158.2	000.3840	0308.8	071.9	40.8
012.0	100.0000	0440.6	082.7		157.3	000.3840	0319.0	072.8	40.8
013.0	100.0000	0439.9	082.7		156.4	000.3840	0324.6	073.7	40.7
014.0	100.0000	0438.6	082.6		155.6	000.3840	0324.6	074.6	40.4
015.0	100.0000	0437.7	082.5		154.7	000.3840	0328.3	075.6	40.2
016.0	100.0000	0436.9	082.5		153.9	000.3840	0331.3	076.6	39.9
017.0	100.0000	0436.1	082.4		153.2	000.3840	0332.9	077.6	39.6
018.0	100.0000	0433.7	082.2		152.5	000.3840	0332.9	078.7	39.2
019.0	100.0000	0430.9	082.0		151.9	000.3840	0335.5	079.9	38.9
020.0	100.0000	0428.9	081.9		151.3	000.3840	0342.3	081.1	38.8
021.0	100.0000	0428.5	081.9		150.7	000.3840	0342.3	082.2	38.4
022.0	100.0000	0428.6	081.9		150.0	000.3840	0352.5	083.3	38.4
023.0	100.0000	0428.2	081.8		149.4	000.3840	0362.8	084.4	38.3
024.0	100.0000	0427.6	081.8		148.9	000.3840	0362.8	085.6	37.9
025.0	100.0000	0427.5	081.8		148.4	000.3840	0371.2	086.8	37.8
026.0	100.0000	0427.7	081.8		147.8	000.3840	0371.2	088.0	37.4
027.0	100.0000	0428.1	081.8		147.3	000.3840	0379.0	089.2	37.2
028.0	100.0000	0428.9	081.9		146.9	000.3840	0379.0	090.4	36.9
029.0	100.0000	0430.0	082.0		146.4	000.3840	0388.0	091.6	36.8
030.0	100.0000	0431.1	082.1		145.9	000.3840	0388.0	092.9	36.4
031.0	100.0000	0431.6	082.1		145.5	000.3840	0388.0	094.1	36.0
032.0	100.0000	0431.6	082.1		145.2	000.3840	0398.2	095.5	35.9
033.0	100.0000	0431.4	082.1		144.8	000.3840	0398.2	096.8	35.5
034.0	100.0000	0431.0	082.1		144.5	000.3840	0398.2	098.1	35.1
035.0	100.0000	0430.7	082.0		144.3	000.3840	0409.1	099.5	35.1
036.0	100.0000	0430.4	082.0		144.0	000.3840	0409.1	100.8	34.7
037.0	100.0000	0430.1	082.0		143.8	000.3840	0409.1	102.2	34.3
038.0	100.0000	0429.8	082.0		143.6	000.3840	0409.1	103.6	34.0
039.0	100.0000	0429.6	081.9		143.4	000.3840	0421.6	105.0	34.0
040.0	100.0000	0429.3	081.9		143.2	000.3840	0421.6	106.4	33.6
041.0	100.0000	0429.1	081.9		143.0	000.3840	0421.6	107.8	33.2

042.0	100.0000	0428.8	081.9		142.9	000.3840	0421.6	109.2	32.8
043.0	100.0000	0428.4	081.9		142.7	000.3840	0421.6	110.6	32.5
044.0	100.0000	0427.8	081.8		142.6	000.3840	0421.6	112.0	32.1
045.0	100.0000	0427.1	081.8		142.5	000.3840	0421.6	113.4	31.7
046.0	100.0000	0426.3	081.7		142.5	000.3840	0436.8	114.8	31.8
047.0	100.0000	0425.5	081.6		142.4	000.3840	0436.8	116.3	31.4
048.0	100.0000	0424.7	081.6		142.4	000.3840	0436.8	117.7	31.1
049.0	100.0000	0423.8	081.5		142.4	000.3840	0436.8	119.1	30.7
050.0	100.0000	0423.1	081.5		142.4	000.3840	0436.8	120.5	30.3
051.0	100.0000	0422.3	081.4		142.4	000.3840	0436.8	122.0	30.0
052.0	100.0000	0421.6	081.4		142.4	000.3840	0436.8	123.4	29.6
053.0	100.0000	0421.0	081.3		142.4	000.3840	0436.8	124.8	29.3
054.0	100.0000	0420.3	081.3		142.4	000.3840	0436.8	126.2	28.9
055.0	100.0000	0419.6	081.2		142.4	000.3840	0436.8	127.6	28.5
056.0	100.0000	0418.8	081.1		142.5	000.3840	0436.8	129.1	28.2
057.0	100.0000	0418.0	081.1		142.6	000.3840	0421.6	130.5	27.4
058.0	100.0000	0417.3	081.0		142.6	000.3840	0421.6	131.9	27.0
059.0	100.0000	0416.7	081.0		142.7	000.3840	0421.6	133.3	26.7
060.0	100.0000	0416.1	081.0		142.8	000.3840	0421.6	134.7	26.3
061.0	100.0000	0415.5	080.9		142.9	000.3840	0421.6	136.1	26.0
062.0	100.0000	0414.8	080.9		143.0	000.3840	0421.6	137.5	25.6
063.0	100.0000	0414.1	080.8		143.1	000.3840	0421.6	138.8	25.3
064.0	100.0000	0413.3	080.7		143.2	000.3840	0421.6	140.2	24.9
065.0	100.0000	0412.5	080.7		143.3	000.3840	0421.6	141.6	24.6
066.0	100.0000	0411.8	080.6		143.5	000.3840	0421.6	143.0	24.3
067.0	100.0000	0411.0	080.6		143.6	000.3840	0409.1	144.3	23.7
068.0	100.0000	0410.1	080.5		143.8	000.3840	0409.1	145.7	23.4
069.0	100.0000	0409.1	080.4		143.9	000.3840	0409.1	147.0	23.1
070.0	100.0000	0408.2	080.4		144.1	000.3840	0409.1	148.4	22.9
071.0	100.0000	0407.2	080.3		144.3	000.3840	0409.1	149.7	22.6
072.0	100.0000	0406.3	080.2		144.5	000.3840	0409.1	151.0	22.3
073.0	100.0000	0405.6	080.2		144.6	000.3840	0398.2	152.3	21.8
074.0	100.0000	0405.0	080.1		144.8	000.3840	0398.2	153.6	21.6
075.0	100.0000	0404.5	080.1		145.0	000.3840	0398.2	154.9	21.3
076.0	100.0000	0403.8	080.0		145.2	000.3840	0398.2	156.2	21.0
077.0	100.0000	0403.1	080.0		145.4	000.3840	0398.2	157.5	20.8
078.0	100.0000	0402.4	079.9		145.6	000.3840	0388.0	158.8	20.3
079.0	100.0000	0401.8	079.9		145.8	000.3840	0388.0	160.1	20.1
080.0	100.0000	0401.0	079.8		146.0	000.3840	0388.0	161.3	19.8
081.0	100.0000	0400.0	079.8		146.2	000.3840	0388.0	162.6	19.6

Exhibit 7

01-10-2007 30 Sec. Terrain Data

KACI-F Proposed
Channel = 249C2
Max ERP = 9.6 kW
RCAMSL = 1430 M
N. Lat = 452436
W. Lng = 1212803

KYCH-F BLH19900821KA (Max C)
Channel = 246C
Max ERP = 100 kW
RCAMSL = 694 M
N. Lat = 45 29 20
W. Lng = 122 41 40

Protected
60 dBu

Interfering
100 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
208.0	001.9613	-0149.7	011.9	101.7	100.0000	0593.6	092.5	65.9
209.0	002.0402	-0150.5	012.1	101.7	100.0000	0593.6	092.3	66.0
210.0	002.1206	-0154.5	012.2	101.7	100.0000	0593.6	092.0	66.1
211.0	002.1478	-0165.3	012.2	101.7	100.0000	0593.6	091.8	66.1
212.0	002.1751	-0180.8	012.2	101.7	100.0000	0593.6	091.6	66.2
213.0	002.2026	-0199.6	012.3	101.7	100.0000	0593.6	091.4	66.3
214.0	002.2303	-0218.4	012.3	101.7	100.0000	0593.6	091.2	66.3
215.0	002.2582	-0230.5	012.4	101.6	100.0000	0593.6	091.0	66.4
216.0	002.2862	-0228.4	012.4	101.6	100.0000	0593.6	090.7	66.5
217.0	002.3144	-0208.4	012.4	101.6	100.0000	0593.6	090.5	66.5
218.0	002.3427	-0170.5	012.5	101.5	100.0000	0593.6	090.3	66.6
219.0	002.3713	-0122.9	012.5	101.5	100.0000	0597.0	090.1	66.7
220.0	002.4000	-0073.7	012.5	101.4	100.0000	0597.0	089.9	66.8
221.0	002.4872	-0030.1	012.6	101.4	100.0000	0597.0	089.7	66.9
222.0	002.5759	0003.0	012.7	101.4	100.0000	0597.0	089.4	66.9
223.0	002.6662	0027.1	012.9	101.4	100.0000	0597.0	089.2	67.0
224.0	002.7580	0045.5	015.9	103.0	100.0000	0589.3	087.4	67.4
225.0	002.8514	0060.6	018.8	104.6	100.0000	0578.7	085.7	67.8
226.0	002.9464	0073.7	020.8	105.7	100.0000	0575.0	084.4	68.1
227.0	003.0429	0085.2	022.5	106.5	100.0000	0573.4	083.2	68.4
228.0	003.1410	0093.3	023.7	107.1	100.0000	0573.4	082.3	68.7
229.0	003.2406	0095.8	024.1	107.2	100.0000	0573.4	081.7	68.9
230.0	003.3418	0091.4	023.8	106.9	100.0000	0573.4	081.5	69.0
231.0	003.5138	0082.0	022.8	106.1	100.0000	0575.0	081.7	69.0
232.0	003.6902	0070.9	021.6	105.3	100.0000	0578.7	082.1	68.9
233.0	003.8710	0061.4	020.4	104.5	100.0000	0583.8	082.5	68.9
234.0	004.0560	0054.0	019.4	103.8	100.0000	0583.8	082.8	68.8
235.0	004.2454	0047.0	018.2	103.0	100.0000	0589.3	083.4	68.7
236.0	004.4390	0039.4	016.7	102.1	100.0000	0593.6	084.2	68.5
237.0	004.6370	0031.8	015.1	101.2	100.0000	0597.0	085.1	68.3
238.0	004.8394	0026.0	014.9	100.9	100.0000	0597.0	085.1	68.3
239.0	005.0460	0020.7	015.0	100.9	100.0000	0597.0	084.8	68.4
240.0	005.2570	0013.6	015.2	100.8	100.0000	0597.0	084.5	68.5
241.0	005.5304	0003.5	015.4	100.8	100.0000	0597.0	084.1	68.6
242.0	005.8107	-0006.2	015.6	100.7	100.0000	0597.0	083.8	68.7
243.0	006.0980	-0014.9	015.8	100.7	100.0000	0597.0	083.5	68.8
244.0	006.3922	-0022.1	016.0	100.6	100.0000	0597.0	083.1	68.9
245.0	006.6934	-0028.6	016.2	100.5	100.0000	0597.0	082.8	69.0
246.0	007.0014	-0033.2	016.4	100.5	100.0000	0599.9	082.5	69.2
247.0	007.3164	-0034.5	016.7	100.4	100.0000	0599.9	082.1	69.3
248.0	007.6384	-0031.9	016.9	100.3	100.0000	0599.9	081.8	69.4
249.0	007.9672	-0030.9	017.0	100.2	100.0000	0599.9	081.5	69.5
250.0	008.3030	-0034.7	017.2	100.1	100.0000	0599.9	081.2	69.6
251.0	008.4285	-0042.3	017.3	099.9	100.0000	0599.9	081.0	69.7
252.0	008.5549	-0049.7	017.4	099.8	100.0000	0599.9	080.7	69.7
253.0	008.6822	-0054.9	017.4	099.6	100.0000	0599.9	080.5	69.8
254.0	008.8105	-0062.1	017.5	099.4	100.0000	0603.4	080.3	69.9
255.0	008.9398	-0068.8	017.6	099.2	100.0000	0603.4	080.1	70.0
256.0	009.0699	-0072.9	017.7	099.1	100.0000	0603.4	080.0	70.1
257.0	009.2010	-0072.2	017.7	098.9	100.0000	0603.4	079.8	70.1

258.0	009.3331	-0065.1	017.8		098.7	100.0000	0603.4	079.6	70.2
259.0	009.4661	-0056.7	017.9		098.5	100.0000	0606.3	079.4	70.3
260.0	009.6000	-0046.8	017.9		098.3	100.0000	0606.3	079.3	70.3
261.0	009.5042	-0032.8	017.9		098.1	100.0000	0606.3	079.2	70.3
262.0	009.4090	-0019.4	017.8		097.8	100.0000	0606.3	079.2	70.4
263.0	009.3142	-0004.5	017.8		097.6	100.0000	0606.3	079.1	70.4
264.0	009.2198	0011.2	017.7		097.4	100.0000	0608.8	079.1	70.4
265.0	009.1260	0027.7	017.7		097.2	100.0000	0608.8	079.1	70.4
266.0	009.0326	0041.5	020.6		097.4	100.0000	0608.8	076.1	71.4
267.0	008.9398	0057.0	024.1		097.6	100.0000	0606.3	072.7	72.5
268.0	008.8474	0072.8	026.6		097.7	100.0000	0606.3	070.0	73.3
269.0	008.7554	0088.0	029.0		097.6	100.0000	0606.3	067.6	74.1
270.0	008.6640	0099.7	030.7		097.4	100.0000	0608.8	065.8	74.7
271.0	008.5368	0110.9	032.3		097.1	100.0000	0608.8	064.2	75.2
272.0	008.4105	0122.1	033.6		096.7	100.0000	0608.8	062.9	75.7
273.0	008.2852	0133.3	034.8		096.2	100.0000	0610.3	061.7	76.1
274.0	008.1608	0146.5	036.2		095.7	100.0000	0610.3	060.2	76.6
275.0	008.0374	0161.9	037.8		095.1	100.0000	0610.3	058.5	77.2
276.0	007.9149	0176.9	039.2		094.4	100.0000	0610.1	057.1	77.7
277.0	007.7933	0189.9	040.2		093.7	100.0000	0610.1	056.2	78.0
278.0	007.6727	0202.3	041.0		092.9	100.0000	0609.9	055.4	78.3
279.0	007.5530	0214.7	041.8		092.1	100.0000	0609.6	054.7	78.6
280.0	007.4342	0224.9	042.4		091.2	100.0000	0610.1	054.2	78.8
281.0	007.2830	0233.5	042.8		090.4	100.0000	0610.6	053.9	78.9
282.0	007.1332	0242.8	043.3		089.5	100.0000	0610.6	053.6	79.0
283.0	006.9850	0253.6	043.8		088.6	100.0000	0611.2	053.2	79.1
284.0	006.8384	0266.3	044.4		087.6	100.0000	0611.2	052.8	79.3
285.0	006.6934	0278.6	045.1		086.6	100.0000	0610.7	052.5	79.4
286.0	006.5498	0289.5	045.6		085.6	100.0000	0610.1	052.2	79.5
287.0	006.4079	0300.7	046.1		084.6	100.0000	0609.4	052.0	79.5
288.0	006.2675	0313.2	046.7		083.5	100.0000	0608.3	051.8	79.6
289.0	006.1286	0326.9	047.3		082.3	100.0000	0608.4	051.5	79.7
290.0	005.9914	0341.9	048.1		081.1	100.0000	0608.4	051.3	79.8
291.0	005.9762	0352.8	048.7		079.9	100.0000	0608.6	051.1	79.9
292.0	005.9611	0361.3	049.2		078.8	100.0000	0608.8	051.1	79.9
293.0	005.9459	0367.9	049.6		077.8	100.0000	0608.9	051.3	79.8
294.0	005.9308	0375.7	050.0		076.7	100.0000	0608.9	051.5	79.7
295.0	005.9158	0387.6	050.6		075.5	100.0000	0609.1	051.5	79.7
296.0	005.9007	0400.3	051.3		074.3	100.0000	0610.0	051.6	79.7
297.0	005.8857	0411.9	051.9		073.1	100.0000	0610.6	051.7	79.7
298.0	005.8706	0422.9	052.5		071.9	100.0000	0611.5	052.0	79.6
299.0	005.8556	0432.9	053.0		070.8	100.0000	0612.6	052.3	79.5
300.0	005.8406	0440.7	053.4		069.8	100.0000	0614.2	052.7	79.4
301.0	005.9762	0446.1	053.9		068.7	100.0000	0616.1	053.1	79.2
302.0	006.1133	0451.8	054.4		067.7	100.0000	0618.0	053.5	79.1
303.0	006.2520	0459.3	055.1		066.5	100.0000	0619.8	053.9	79.0
304.0	006.3922	0467.4	055.8		065.4	100.0000	0622.9	054.4	78.9
305.0	006.5340	0475.3	056.4		064.2	100.0000	0624.3	054.9	78.7
306.0	006.6773	0482.5	057.1		063.1	100.0000	0625.1	055.4	78.5
307.0	006.8222	0488.5	057.6		062.1	100.0000	0625.2	056.0	78.3
308.0	006.9687	0493.0	058.1		061.3	100.0000	0624.6	056.8	78.0
309.0	007.1167	0495.8	058.5		060.5	100.0000	0624.6	057.5	77.7
310.0	007.2662	0497.2	058.8		059.9	100.0000	0623.6	058.4	77.4
311.0	007.4850	0497.6	059.1		059.2	100.0000	0622.7	059.2	77.1
312.0	007.7070	0497.9	059.4		058.6	100.0000	0622.7	060.1	76.8
313.0	007.9323	0498.6	059.8		058.1	100.0000	0622.5	061.0	76.5
314.0	008.1608	0500.3	060.2		057.5	100.0000	0622.9	061.9	76.2
315.0	008.3926	0502.9	060.6		056.8	100.0000	0622.9	062.9	75.9
316.0	008.6276	0506.1	061.1		056.2	100.0000	0623.7	063.8	75.6
317.0	008.8658	0509.9	061.6		055.6	100.0000	0623.7	064.8	75.3
318.0	009.1073	0514.1	062.2		055.0	100.0000	0624.5	065.7	75.0
319.0	009.3520	0518.1	062.7		054.4	100.0000	0625.4	066.8	74.6
320.0	009.6000	0521.0	063.1		053.9	100.0000	0625.4	067.8	74.3
321.0	009.6000	0522.0	063.2		053.8	100.0000	0625.4	068.9	73.9
322.0	009.6000	0520.6	063.1		053.8	100.0000	0625.4	070.0	73.6
323.0	009.6000	0517.1	062.9		054.0	100.0000	0625.4	071.1	73.2
324.0	009.6000	0511.5	062.5		054.2	100.0000	0625.4	072.2	72.9

325.0	009.6000	0503.8	062.0		054.6	100.0000	0624.5	073.3	72.5
326.0	009.6000	0494.3	061.4		055.1	100.0000	0624.5	074.4	72.2
327.0	009.6000	0483.5	060.7		055.6	100.0000	0623.7	075.4	71.8
328.0	009.6000	0471.8	060.0		056.2	100.0000	0623.7	076.4	71.5
329.0	009.6000	0460.0	059.3		056.8	100.0000	0622.9	077.5	71.2
330.0	009.6000	0448.0	058.6		057.3	100.0000	0622.9	078.5	70.9
331.0	009.6000	0435.6	057.9		057.8	100.0000	0622.5	079.5	70.5
332.0	009.6000	0422.9	057.1		058.4	100.0000	0622.5	080.4	70.2
333.0	009.6000	0409.3	056.4		059.0	100.0000	0622.7	081.4	69.9
334.0	009.6000	0393.7	055.5		059.6	100.0000	0623.6	082.3	69.7
335.0	009.6000	0376.5	054.6		060.3	100.0000	0623.6	083.2	69.4
336.0	009.6000	0359.5	053.6		061.0	100.0000	0624.6	084.0	69.1
337.0	009.6000	0343.6	052.6		061.8	100.0000	0625.2	084.9	68.8
338.0	009.6000	0329.0	051.6		062.4	100.0000	0625.2	085.7	68.6

Exhibit 8

01-10-2007 30 Sec. Terrain Data

KYCH-F BLH19900821KA (Max C)
 Channel = 246C
 Max ERP = 100 kW
 RCAMSL = 694 M
 N. Lat = 45 29 20
 W. Lng = 122 41 40

KACI-F Proposed
 Channel = 249C2
 Max ERP = 9.6 kW
 RCAMSL = 1430 M
 N. Lat = 452436
 W. Lng = 1212803

Protected
 60 dBu

Interfering
 100 dBu

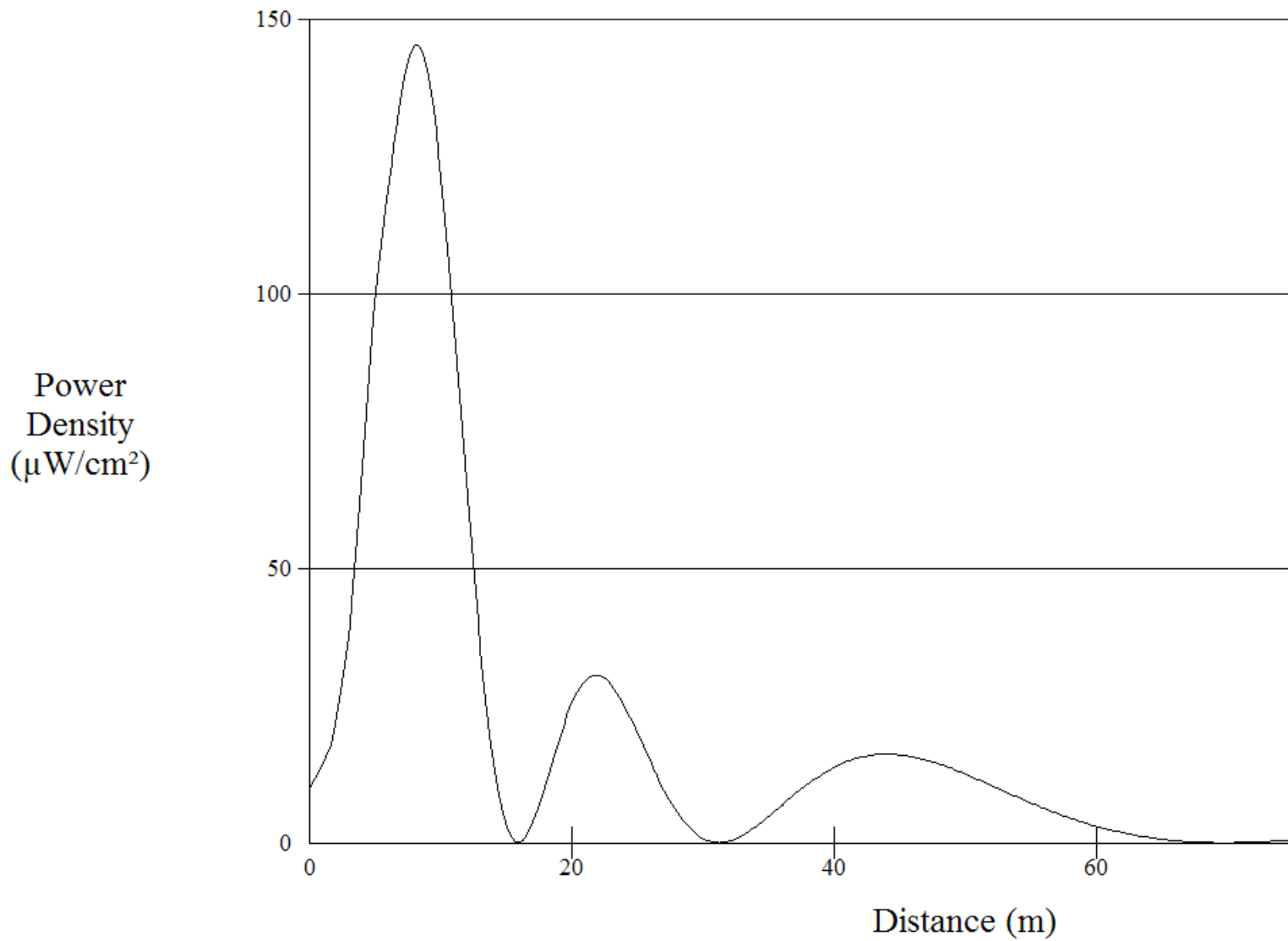
Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
024.0	100.0000	0644.4	093.5	328.9	009.6000	0460.0	110.4	47.6
025.0	100.0000	0644.8	093.5	329.5	009.6000	0448.0	108.9	47.6
026.0	100.0000	0645.2	093.5	330.0	009.6000	0448.0	107.6	48.0
027.0	100.0000	0645.3	093.5	330.5	009.6000	0448.0	106.2	48.4
028.0	100.0000	0644.9	093.5	330.9	009.6000	0435.6	104.8	48.4
029.0	100.0000	0644.2	093.5	331.4	009.6000	0435.6	103.4	48.8
030.0	100.0000	0643.4	093.5	331.8	009.6000	0422.9	102.0	48.8
031.0	100.0000	0642.4	093.4	332.3	009.6000	0422.9	100.6	49.2
032.0	100.0000	0641.2	093.4	332.7	009.6000	0409.3	099.2	49.2
033.0	100.0000	0639.9	093.3	333.2	009.6000	0409.3	097.8	49.6
034.0	100.0000	0638.6	093.3	333.6	009.6000	0393.7	096.3	49.5
035.0	100.0000	0637.5	093.2	334.1	009.6000	0393.7	094.9	49.9
036.0	100.0000	0636.5	093.2	334.5	009.6000	0393.7	093.5	50.3
037.0	100.0000	0635.7	093.2	334.9	009.6000	0376.5	092.0	50.2
038.0	100.0000	0635.0	093.1	335.4	009.6000	0376.5	090.6	50.7
039.0	100.0000	0634.5	093.1	335.8	009.6000	0359.5	089.1	50.7
040.0	100.0000	0634.0	093.1	336.3	009.6000	0359.5	087.6	51.1
041.0	100.0000	0633.6	093.1	336.7	009.6000	0343.6	086.2	51.1
042.0	100.0000	0633.4	093.1	337.2	009.6000	0343.6	084.7	51.6
043.0	100.0000	0633.2	093.1	337.6	009.6000	0329.0	083.2	51.6
044.0	100.0000	0632.9	093.1	338.1	009.6000	0329.0	081.7	52.1
045.0	100.0000	0632.6	093.1	338.5	009.6000	0316.3	080.3	52.2
046.0	100.0000	0632.2	093.0	338.9	009.6000	0316.3	078.8	52.7
047.0	100.0000	0631.8	093.0	339.4	009.6000	0316.3	077.3	53.2
048.0	100.0000	0631.2	093.0	339.8	009.6000	0308.8	075.7	53.4
049.0	100.0000	0630.5	093.0	340.2	009.6000	0308.8	074.2	54.0
050.0	100.0000	0629.6	092.9	340.6	009.6000	0307.5	072.7	54.4
051.0	100.0000	0628.5	092.9	341.0	009.6000	0307.5	071.2	55.0
052.0	100.0000	0627.4	092.9	341.4	009.6000	0307.5	069.6	55.5
053.0	100.0000	0626.4	092.8	341.8	009.6000	0310.0	068.1	56.2
054.0	100.0000	0625.4	092.8	342.2	009.6000	0310.0	066.5	56.7
055.0	100.0000	0624.5	092.7	342.6	009.6000	0312.5	065.0	57.4
056.0	100.0000	0623.7	092.7	343.0	009.6000	0312.5	063.4	57.9
057.0	100.0000	0622.9	092.7	343.4	009.6000	0312.5	061.9	58.5
058.0	100.0000	0622.5	092.7	343.7	009.6000	0316.5	060.3	59.2
059.0	100.0000	0622.7	092.7	344.2	009.6000	0316.5	058.8	59.8
060.0	100.0000	0623.6	092.7	344.6	009.6000	0319.7	057.2	60.5
061.0	100.0000	0624.6	092.7	345.0	009.6000	0319.7	055.7	61.1
062.0	100.0000	0625.2	092.8	345.4	009.6000	0319.7	054.1	61.7
063.0	100.0000	0625.1	092.8	345.8	009.6000	0321.2	052.5	62.4
064.0	100.0000	0624.3	092.7	346.1	009.6000	0321.2	050.9	63.0
065.0	100.0000	0622.9	092.7	346.4	009.6000	0321.2	049.3	63.6
066.0	100.0000	0621.4	092.6	346.7	009.6000	0322.6	047.7	64.3
067.0	100.0000	0619.8	092.6	346.9	009.6000	0322.6	046.1	64.9
068.0	100.0000	0618.0	092.5	347.2	009.6000	0322.6	044.5	65.6
069.0	100.0000	0616.1	092.4	347.4	009.6000	0322.6	042.9	66.3
070.0	100.0000	0614.2	092.4	347.6	009.6000	0324.7	041.3	67.0
071.0	100.0000	0612.6	092.3	347.8	009.6000	0324.7	039.7	67.7
072.0	100.0000	0611.5	092.3	347.9	009.6000	0324.7	038.1	68.5
073.0	100.0000	0610.6	092.2	348.1	009.6000	0324.7	036.5	69.2

074.0	100.0000	0610.0	092.2		348.2	009.6000	0324.7	034.9	70.0
075.0	100.0000	0609.5	092.2		348.4	009.6000	0324.7	033.3	70.7
076.0	100.0000	0609.1	092.2		348.5	009.6000	0324.7	031.7	71.5
077.0	100.0000	0608.9	092.2		348.5	009.6000	0325.4	030.1	72.4
078.0	100.0000	0608.9	092.2		348.6	009.6000	0325.4	028.5	73.4
079.0	100.0000	0608.8	092.2		348.5	009.6000	0325.4	026.9	74.4
080.0	100.0000	0608.6	092.1		348.4	009.6000	0324.7	025.3	75.5
081.0	100.0000	0608.4	092.1		348.2	009.6000	0324.7	023.7	76.6
082.0	100.0000	0608.4	092.1		347.9	009.6000	0324.7	022.1	77.8
083.0	100.0000	0608.3	092.1		347.5	009.6000	0324.7	020.5	79.1
084.0	100.0000	0608.6	092.1		347.0	009.6000	0322.6	018.9	80.3
085.0	100.0000	0609.4	092.2		346.4	009.6000	0321.2	017.3	81.5
086.0	100.0000	0610.1	092.2		345.5	009.6000	0319.7	015.7	82.8
087.0	100.0000	0610.7	092.2		344.3	009.6000	0316.5	014.1	84.4
088.0	100.0000	0611.2	092.2		342.6	009.6000	0312.5	012.6	86.4
089.0	100.0000	0611.2	092.2		340.3	009.6000	0308.8	011.0	88.6
090.0	100.0000	0610.6	092.2		336.9	009.6000	0343.6	009.5	91.8
091.0	100.0000	0610.1	092.2		332.1	009.6000	0422.9	008.1	95.2
092.0	100.0000	0609.6	092.2		325.2	009.6000	0503.8	006.8	97.9
093.0	100.0000	0609.9	092.2		315.1	008.4152	0502.9	005.6	99.6
094.0	100.0000	0610.1	092.2		300.1	005.8538	0440.7	004.7	99.8
095.0	100.0000	0610.3	092.2		280.0	007.4367	0224.9	004.2	99.5
096.0	100.0000	0610.3	092.2		258.6	009.4191	-0056.7	004.4	83.7
097.0	100.0000	0608.8	092.1		241.8	005.7410	-0006.2	005.2	78.9
098.0	100.0000	0606.3	092.1		230.4	003.4178	0091.4	006.4	83.0
099.0	100.0000	0603.4	091.9		223.1	002.6759	0027.1	007.7	68.9
100.0	100.0000	0599.9	091.8		218.3	002.3502	-0170.5	009.1	65.5
101.0	100.0000	0597.0	091.7		214.8	002.2533	-0230.5	010.6	62.7
102.0	100.0000	0593.6	091.6		212.4	002.1874	-0180.8	012.2	60.1
103.0	100.0000	0589.3	091.4		210.9	002.1442	-0165.3	013.7	57.8
104.0	100.0000	0583.8	091.2		209.9	002.1138	-0154.5	015.3	56.0
105.0	100.0000	0578.7	091.0		209.2	002.0561	-0150.5	016.9	54.5
106.0	100.0000	0575.0	090.8		208.5	002.0026	-0150.5	018.5	53.1
107.0	100.0000	0573.4	090.8		207.8	001.9468	-0149.7	020.1	51.7
108.0	100.0000	0572.5	090.7		207.2	001.8982	-0148.8	021.7	50.3
109.0	100.0000	0572.3	090.7		206.6	001.8568	-0148.8	023.2	49.1
110.0	100.0000	0573.3	090.8		206.1	001.8167	-0148.9	024.8	47.9
111.0	100.0000	0575.9	090.9		205.6	001.7754	-0148.9	026.4	46.8
112.0	100.0000	0580.0	091.0		205.0	001.7344	-0147.7	028.0	45.7
113.0	100.0000	0584.5	091.2		204.5	001.7006	-0147.7	029.5	44.8
114.0	100.0000	0589.5	091.4		204.1	001.6719	-0142.2	031.1	44.0
115.0	100.0000	0595.5	091.6		203.8	001.6455	-0142.2	032.7	43.2
116.0	100.0000	0602.0	091.9		203.5	001.6231	-0134.4	034.4	42.6
117.0	100.0000	0608.5	092.1		203.2	001.6065	-0134.4	036.0	41.9
118.0	100.0000	0613.7	092.3		203.1	001.5997	-0134.4	037.6	41.4
119.0	100.0000	0617.0	092.5		203.2	001.6039	-0134.4	039.2	40.8
120.0	100.0000	0618.6	092.5		203.4	001.6167	-0134.4	040.8	40.4
121.0	100.0000	0619.0	092.5		203.6	001.6355	-0142.2	042.5	39.9
122.0	100.0000	0619.3	092.5		203.9	001.6562	-0142.2	044.1	39.5
123.0	100.0000	0620.8	092.6		204.2	001.6740	-0142.2	045.7	39.2
124.0	100.0000	0623.8	092.7		204.4	001.6882	-0142.2	047.3	38.8
125.0	100.0000	0627.7	092.9		204.6	001.7012	-0147.7	048.9	38.5
126.0	100.0000	0631.2	093.0		204.8	001.7168	-0147.7	050.5	38.2
127.0	100.0000	0633.7	093.1		205.0	001.7370	-0147.7	052.2	37.9
128.0	100.0000	0635.0	093.1		205.4	001.7620	-0147.7	053.8	37.6
129.0	100.0000	0635.3	093.2		205.8	001.7904	-0148.9	055.3	37.3
130.0	100.0000	0635.2	093.2		206.2	001.8208	-0148.9	056.9	37.0
131.0	100.0000	0635.1	093.1		206.6	001.8520	-0148.8	058.5	36.8
132.0	100.0000	0634.9	093.1		207.0	001.8838	-0148.8	060.1	36.5
133.0	100.0000	0634.8	093.1		207.4	001.9163	-0148.8	061.7	36.3
134.0	100.0000	0634.4	093.1		207.9	001.9499	-0149.7	063.2	36.1
135.0	100.0000	0633.8	093.1		208.3	001.9846	-0149.7	064.8	35.8
136.0	100.0000	0633.3	093.1		208.7	002.0195	-0150.5	066.3	35.6
137.0	100.0000	0633.0	093.1		209.2	002.0546	-0150.5	067.9	35.4
138.0	100.0000	0632.9	093.1		209.6	002.0897	-0154.5	069.4	35.2
139.0	100.0000	0632.7	093.1		210.1	002.1222	-0154.5	071.0	35.0
140.0	100.0000	0632.1	093.0		210.5	002.1346	-0165.3	072.5	34.8

141.0	100.0000	0631.1	093.0		211.0	002.1474	-0165.3	074.0	34.5
142.0	100.0000	0629.9	093.0		211.5	002.1603	-0165.3	075.5	34.3
143.0	100.0000	0629.1	092.9		211.9	002.1731	-0180.8	077.0	34.0
144.0	100.0000	0628.6	092.9		212.4	002.1857	-0180.8	078.5	33.7
145.0	100.0000	0628.2	092.9		212.8	002.1983	-0199.6	080.0	33.5
146.0	100.0000	0628.1	092.9		213.3	002.2109	-0199.6	081.5	33.2
147.0	100.0000	0628.0	092.9		213.8	002.2235	-0218.4	083.0	32.9
148.0	100.0000	0627.6	092.9		214.2	002.2363	-0218.4	084.5	32.6
149.0	100.0000	0626.7	092.8		214.7	002.2496	-0230.5	086.0	32.4
150.0	100.0000	0625.2	092.8		215.2	002.2633	-0230.5	087.4	32.1
151.0	100.0000	0623.4	092.7		215.7	002.2772	-0228.4	088.9	31.8
152.0	100.0000	0621.7	092.6		216.2	002.2911	-0228.4	090.3	31.6
153.0	100.0000	0620.2	092.6		216.7	002.3050	-0208.4	091.7	31.3
154.0	100.0000	0618.9	092.5		217.2	002.3187	-0208.4	093.2	31.0
155.0	100.0000	0618.0	092.5		217.6	002.3323	-0170.5	094.6	30.8
156.0	100.0000	0616.6	092.4		218.1	002.3462	-0170.5	096.0	30.5
157.0	100.0000	0613.7	092.3		218.6	002.3610	-0122.9	097.4	30.3
158.0	100.0000	0608.5	092.1		219.2	002.3771	-0122.9	098.7	30.0
159.0	100.0000	0603.0	091.9		219.8	002.3933	-0073.7	100.0	29.8
160.0	100.0000	0598.5	091.8		220.3	002.4268	-0073.7	101.3	29.6
161.0	100.0000	0594.9	091.6		220.8	002.4728	-0030.1	102.6	29.4
162.0	100.0000	0591.0	091.5		221.4	002.5195	-0030.1	103.9	29.2
163.0	100.0000	0586.5	091.3		221.9	002.5678	0003.0	105.2	29.0
164.0	100.0000	0582.1	091.1		222.4	002.6163	0003.0	106.4	28.9
165.0	100.0000	0578.2	091.0		223.0	002.6644	0027.1	107.7	28.7
166.0	100.0000	0575.9	090.9		223.5	002.7104	0027.1	109.0	28.5
167.0	100.0000	0575.7	090.9		223.9	002.7531	0045.5	110.3	29.1
168.0	100.0000	0577.6	090.9		224.4	002.7926	0045.5	111.7	28.9
169.0	100.0000	0582.0	091.1		224.8	002.8288	0060.6	113.1	29.3
170.0	100.0000	0586.7	091.3		225.1	002.8653	0060.6	114.5	29.1
171.0	100.0000	0592.2	091.5		225.5	002.9015	0073.7	116.0	29.4
172.0	100.0000	0595.9	091.7		225.9	002.9407	0073.7	117.3	29.2
173.0	100.0000	0597.5	091.7		226.4	002.9838	0073.7	118.7	29.0
174.0	100.0000	0597.9	091.7		226.9	003.0288	0085.2	119.9	29.2
175.0	100.0000	0597.6	091.7		227.3	003.0754	0085.2	121.2	29.1
176.0	100.0000	0596.8	091.7		227.8	003.1230	0093.3	122.4	29.2
177.0	100.0000	0594.0	091.6		228.3	003.1737	0093.3	123.6	29.1
178.0	100.0000	0590.1	091.4		228.9	003.2263	0095.8	124.8	29.0
179.0	100.0000	0586.8	091.3		229.4	003.2785	0095.8	125.9	28.9
180.0	100.0000	0584.4	091.2		229.9	003.3297	0091.4	127.1	28.6
181.0	100.0000	0582.5	091.1		230.4	003.4069	0091.4	128.2	28.5
182.0	100.0000	0581.1	091.1		230.9	003.4919	0082.0	129.4	28.1
183.0	100.0000	0581.1	091.1		231.3	003.5747	0082.0	130.6	28.0
184.0	100.0000	0583.1	091.2		231.8	003.6539	0070.9	131.8	27.4
185.0	100.0000	0586.5	091.3		232.2	003.7313	0070.9	133.0	27.3
186.0	100.0000	0590.3	091.4		232.7	003.8092	0061.4	134.3	26.8
187.0	100.0000	0592.0	091.5		233.1	003.8928	0061.4	135.5	26.7
188.0	100.0000	0592.4	091.5		233.6	003.9802	0054.0	136.7	26.2
189.0	100.0000	0592.4	091.5		234.1	004.0695	0054.0	137.8	26.1
190.0	100.0000	0591.7	091.5		234.6	004.1615	0047.0	138.9	25.7

Power Density vs Distance

Exhibit 9



Office of Engineering and Technology

Distance (m):	<input type="text" value="100"/>	Antenna Type:	<input type="text" value="Shively 6810"/>
Horizontal ERP (W):	<input type="text" value="9600"/>	Number of Elements:	<input type="text" value="4"/>
Vertical ERP (W):	<input type="text" value="9600"/>	Element Spacing:	<input type="text" value="1"/>
Antenna Height (m):	<input type="text" value="20"/>		