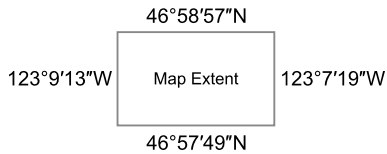


The Proposed 150 dBu f(50:10) Interference Contour has been plotted in relation to the corresponding KNBQ(FM), Centralia, WA 110 dBu F(50:50) contour. This represents the proposed interference contour which falls wholly within the 40:1 dBu ratio. Utilizing the Free Space Equation, the calculated 150 dBu f(50:10) Interference Contour will extend no more than 1 meter around the base of the tower. As seen in the map, there is a lack of population and housing or major roads around the transmitter site and within this interference area..

Exhibit 13.1
USGS Topographic Map of Existing Site & §74.1204(d) Second Adjacent Channel Given Interference Waiver Request with KNBQ(FM) - Centralia, WA; CH275C

Existing Site
 46°58'24" NL
 123°08'11" WL
 (NAD 1927)

MUNN-REESE, INC.
 Broadcast Engineering Consultants
 Coldwater, MI 49036
 1(517)278-7339



Geographic Coordinate System (WGS84)

Exhibit 13.2

Vertical Plan of Antenna System

The site is located on top of Capital Peak
Thurston County, State of Washington.

Site Location (NAD 27)

NL: 46° 58' 24"

WL: 123° 08' 11"

NOTE: Existing Tower Construction

Antenna Structure Registration No.

Not Required

Proposed Antenna
max HAAT: 740 meters

Horizontal Component
842 meters AMSL
31 meters AGL

Vertical Component
839 meters AMSL
28 meters AMSL

859.6 meters AMSL

48.8 meters AGL

Ground Elevation = 810.8 m AMSL
Drawing is not to Scale

MUNN-REESE, INC.

Broadcast Engineering Consultants
Coldwater, MI 49036

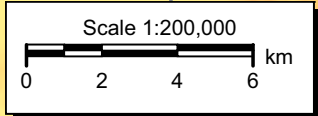
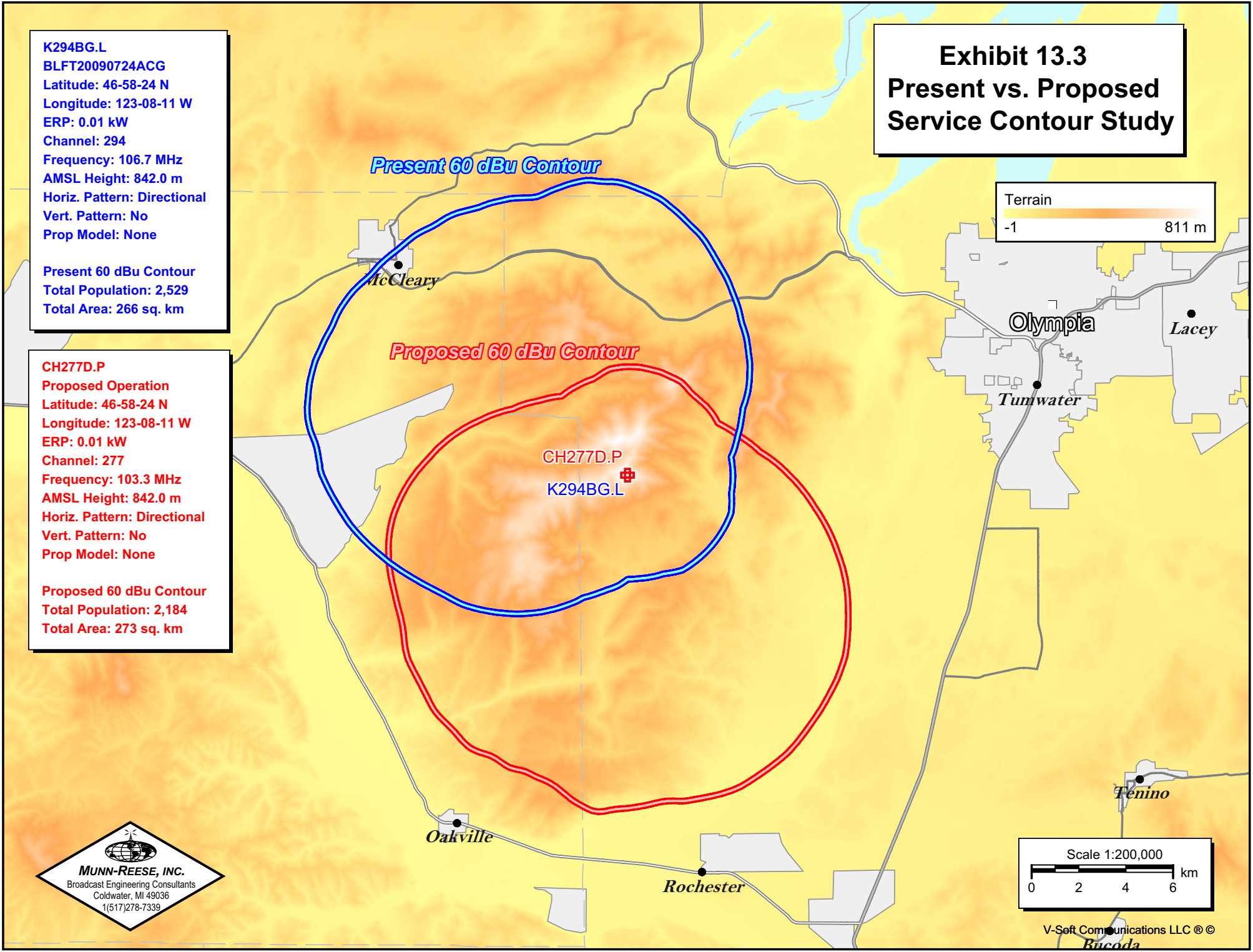
Exhibit 13.3
Present vs. Proposed
Service Contour Study

K294BG.L
BLFT20090724ACG
Latitude: 46-58-24 N
Longitude: 123-08-11 W
ERP: 0.01 kW
Channel: 294
Frequency: 106.7 MHz
AMSL Height: 842.0 m
Horiz. Pattern: Directional
Vert. Pattern: No
Prop Model: None

Present 60 dBu Contour
Total Population: 2,529
Total Area: 266 sq. km

CH277D.P
Proposed Operation
Latitude: 46-58-24 N
Longitude: 123-08-11 W
ERP: 0.01 kW
Channel: 277
Frequency: 103.3 MHz
AMSL Height: 842.0 m
Horiz. Pattern: Directional
Vert. Pattern: No
Prop Model: None

Proposed 60 dBu Contour
Total Population: 2,184
Total Area: 273 sq. km



KGHO-LP.L
BLL20080331AGD
Latitude: 46-58-22 N
Longitude: 123-51-10 W
ERP: 0.10 kW
Channel: 253
Frequency: 98.5 MHz
AMSL Height: 50.0 m
Horiz. Pattern: Omni
Vert. Pattern: No
Prop Model: None

CH277D.P
Proposed Operation
Latitude: 46-58-24 N
Longitude: 123-08-11 W
ERP: 0.01 kW
Channel: 277
Frequency: 103.3 MHz
AMSL Height: 842.0 m
Horiz. Pattern: Directional
Vert. Pattern: No
Prop Model: None



Exhibit 13.4 Proposed vs Primary Service Contour Study

Grays Harbor

Primary 15 dBu Contour

Primary 60 dBu Contour

KGHO-LP.L

Proposed 60 dBu Contour

CH277D.P

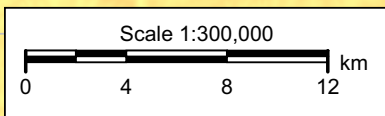


Exhibit 13.5

Tabulation of Proposed Allocation

Northwest Rock N Roll Preservation Society

REFERENCE 46 58 24.0 N. 123 08 11.0 W.		CH# 277D - 103.3 MHz, Pwr= 0.01 kW DA, HAAT= 0.0 M, COR= 842 M Average Protected F(50-50)= 3.15 km Standard Directional						DISPLAY DATES DATA 05-08-10 SEARCH 05-10-10		
CH CITY	CALL	TYPE ANT STATE	AZI <--	DIST FILE #	LAT LNG	PWR(kW) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*
275C Centralia	KNBQ	LIC CX WA	334.0 154.0	0.2 BLH20050126ABD	46 58 31.0 123 08 16.0	70.000 668	13.2 867	92.7 Citicasters Licenses, Inc.	-17.3*<	-92.5*<
277C Beaverton	KKCW	LIC C_ OR	169.3 349.6	164.1 BLH20011214AAF	45 31 21.0 122 44 45.0	100.000 470	189.5 561	85.6 Citicasters Licenses, Inc.	-39.4*<	26.8
277D Tacoma	642540	APP C WA	59.8 240.4	72.4 BNPFT20030317KFM	47 17 49.6 122 18 27.6	0.010	66.0 1161	17.6 Radio Assist Ministry, Inc	2.0	31.0
277D Aberdeen	642534	APP C_ WA	271.2 90.7	55.4 BNPFT20030317KLL	46 58 53.7 123 51 49.4	0.140	31.9 138	9.6 Radio Assist Ministry, Inc	14.5	8.5
279C Tacoma	KMTT	LIC DC_ WA	55.6 236.5	105.9 BLH20080730AKI	47 30 14.0 121 58 29.0	68.000 707	12.2 940	91.9 Entercom Seattle License,	89.3	14.0
280D Chehalis	K280FF	LIC H_ WA	160.9 341.0	42.5 BLFT20050906ABY	46 36 43.0 122 57 15.0	0.040	0.4 136	7.1 Gospel Echo, Inc.	28.0	35.2
277D Sampson	639194	APP C_ WA	270.5 89.7	77.0 BNPFT20030314AHJ	46 58 28.0 124 08 52.0	0.250	23.8 29	7.1 Northwest Rock N Roll Pres	44.2	32.5
279D Aberdeen	628074	APP DC_ WA	264.6 84.2	45.4 BNPFT20030313ASG	46 56 01.0 123 43 48.0	0.090	0.1 183	3.5 Washington State Universit	35.7	41.8
280D Aberdeen	628623	APP C_ WA	270.5 90.0	53.1 BNPFT20030310BIO	46 58 31.0 123 50 01.0	0.250	1.1 26	7.1 Jodesha Broadcasting, Inc.	43.0	45.8
277D Seattle Translator for KMTTFM, Tacoma, WA-	K277AE	LIC DVN WA	40.1 220.7	94.0 BLFT19971126TD	47 36 59.0 122 19 45.0	0.250 87	40.8 124	11.9 Entercom Seattle License,	48.8	59.1
280C3 Ilwaco	KVAS	LIC NCX WA	210.3 29.8	101.7 BLH20060213ACC	46 10 56.0 123 48 09.0	11.000 151	4.3 192	43.2 New Northwest Broadcasters	84.0	58.3
277A Oak Harbor Alternate Channel	AL5678	VAC ____ WA	14.0 194.3	151.4 RM10980	48 17 36.0 122 38 31.0	6.000 100	87.5 128	29.0 Dana J. Puopolo	59.3	98.7

Terrain database is NGDC 30 SEC, R= 73.215 qualifying spacings or FCC minimum Spacings in KM, M= Margin in KM
 Contour distances are on direct line to and from reference station. Reference zone = 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.

Yellow highlighted text denotes a §74.1204(d) Second Adjacent Channel Given Interference Waiver Request toward KNBQ(FM) - Centralia, WA CH275C as incorporated within the **Exhibit 13.1** topographic map site showing. Full protection will be afforded the facility as the proposed interference area is void of population, housing, buildings or major roads as noted in the attached exhibit.

Blue highlighted text denotes contour protection studies toward select station(s) as included in **Exhibit 13.6**.

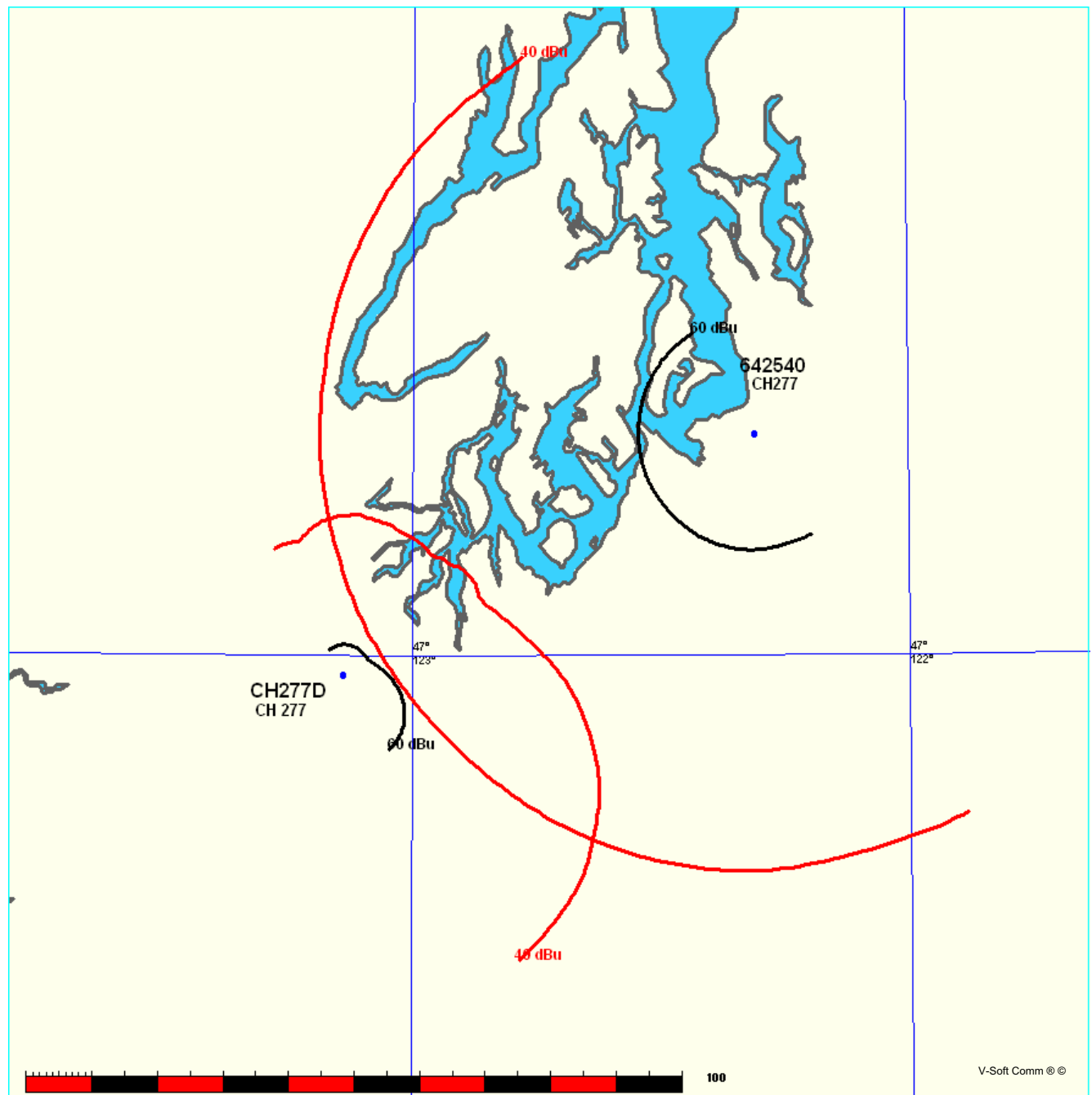
Exhibit 13.6

Contour Protection Toward CH277D - Tacoma, WA (BNPFT-20030317KFM)

FMCommander Single Allocation Study - 05-10-2010 - NGDC 30 SEC
CH277D's Overlaps (In= 2.04 km, Out= 31.02 km)

CH277D CH 277 D DA
Lat= 46 58 24.0, Lng= 123 08 11.0
0.01 kW 0 M HAAT, 842 M COR
Prot.= 60 dBu, Intef.= 40 dBu

642540 CH 277 D BNPFT20030317KFM
Lat= 47 17 49.6, Lng= 122 18 27.6
0.01 kW 0 M HAAT, 1161 M COR
Prot.= 60 dBu, Intef.= 40 dBu



Munn-Reese, Inc.

Broadcast Engineering Consultants
Coldwater, MI 49036

Exhibit 13.6

Contour Protection Toward CH277D - Tacoma, WA (BNPFT-20030317KFM)

05-10-2010

NGDC 30 SEC Terrain Data

FMOver Analysis

CH277D

642534 BNPFT20030317KLL

Channel = 277D
Max ERP = 0.01 kW
RCAMSL = 842 M
N. Lat. 46 58 24.0
W. Lng. 123 08 11.0
Protected
60 dBu

Channel = 277D
Max ERP = 0.14 kW
RCAMSL = 137.9 M
N. Lat. 46 58 53.7
W. Lng. 123 51 49.4
Interfering
40 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
230.0	000.0077	0549.5	012.1	100.5	000.1400	0096.0	046.9	36.11	
231.0	000.0076	0546.5	012.0	100.2	000.1400	0095.9	046.8	36.15	
232.0	000.0075	0542.0	011.9	100.0	000.1400	0095.9	046.7	36.18	
233.0	000.0074	0536.1	011.8	099.7	000.1400	0095.8	046.7	36.20	
234.0	000.0073	0529.2	011.7	099.4	000.1400	0095.7	046.6	36.22	
235.0	000.0071	0522.5	011.6	099.2	000.1400	0095.6	046.5	36.23	
236.0	000.0070	0516.6	011.5	098.9	000.1400	0095.4	046.4	36.25	
237.0	000.0069	0512.3	011.4	098.6	000.1400	0095.3	046.4	36.27	
238.0	000.0068	0510.1	011.3	098.4	000.1400	0095.2	046.3	36.28	
239.0	000.0067	0509.6	011.2	098.2	000.1400	0095.0	046.2	36.30	
240.0	000.0066	0510.5	011.2	097.9	000.1400	0094.7	046.1	36.31	
241.0	000.0064	0512.5	011.1	097.7	000.1400	0094.5	046.1	36.32	
242.0	000.0063	0514.9	011.1	097.5	000.1400	0094.2	046.0	36.32	
243.0	000.0062	0517.6	011.0	097.2	000.1400	0093.9	045.9	36.33	
244.0	000.0061	0520.8	011.0	097.0	000.1400	0093.6	045.8	36.33	
245.0	000.0059	0524.5	010.9	096.8	000.1400	0093.3	045.8	36.32	
246.0	000.0058	0528.4	010.9	096.5	000.1400	0092.9	045.7	36.31	
247.0	000.0057	0532.5	010.9	096.3	000.1400	0092.5	045.7	36.30	
248.0	000.0056	0535.9	010.8	096.1	000.1400	0092.1	045.6	36.28	
249.0	000.0054	0539.6	010.8	095.8	000.1400	0091.7	045.6	36.26	
250.0	000.0053	0543.6	010.7	095.6	000.1400	0091.2	045.5	36.24	
251.0	000.0052	0548.3	010.7	095.3	000.1400	0090.8	045.5	36.21	
252.0	000.0050	0553.4	010.6	095.1	000.1400	0090.3	045.5	36.18	
253.0	000.0049	0559.1	010.5	094.8	000.1400	0089.9	045.4	36.15	
254.0	000.0048	0564.4	010.5	094.6	000.1400	0089.4	045.4	36.12	
255.0	000.0046	0569.1	010.4	094.4	000.1400	0089.0	045.4	36.08	
256.0	000.0045	0574.0	010.4	094.1	000.1400	0088.6	045.4	36.04	
257.0	000.0044	0579.0	010.3	093.9	000.1400	0088.1	045.4	35.99	
258.0	000.0042	0583.7	010.2	093.6	000.1400	0087.5	045.5	35.93	
259.0	000.0041	0588.3	010.1	093.4	000.1400	0086.8	045.5	35.86	
260.0	000.0040	0592.8	010.1	093.1	000.1400	0085.9	045.5	35.76	
261.0	000.0038	0596.5	010.0	092.9	000.1400	0084.7	045.6	35.63	

Munn-Reese, Inc.

Broadcast Engineering Consultants
Coldwater, MI 49036

Exhibit 13.6

Contour Protection Toward CH277D - Tacoma, WA (BNPFT-20030317KFM)

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
262.0	000.0037	0599.5	009.9	092.7	000.1400	0083.4	045.6	35.49
263.0	000.0036	0603.3	009.8	092.4	000.1400	0082.1	045.7	35.35
264.0	000.0035	0606.8	009.7	092.2	000.1400	0080.9	045.8	35.20
265.0	000.0034	0610.4	009.6	092.0	000.1400	0079.6	045.8	35.06
266.0	000.0032	0614.3	009.5	091.8	000.1400	0078.4	045.9	34.91
267.0	000.0031	0618.3	009.4	091.5	000.1400	0077.2	046.0	34.76
268.0	000.0030	0621.9	009.3	091.3	000.1400	0076.0	046.1	34.61
269.0	000.0029	0625.3	009.1	091.1	000.1400	0074.9	046.2	34.46
270.0	000.0028	0628.7	009.0	090.9	000.1400	0073.8	046.3	34.31
271.0	000.0027	0631.6	008.9	090.7	000.1400	0072.7	046.4	34.17
272.0	000.0026	0629.7	008.8	090.5	000.1400	0071.7	046.6	34.02
273.0	000.0025	0630.1	008.7	090.3	000.1400	0070.7	046.7	33.88
274.0	000.0024	0630.7	008.6	090.2	000.1400	0069.7	046.8	33.74
275.0	000.0024	0632.5	008.4	090.0	000.1400	0068.8	046.9	33.60
276.0	000.0023	0637.1	008.3	089.8	000.1400	0067.9	047.1	33.46
277.0	000.0022	0645.4	008.2	089.7	000.1400	0067.0	047.2	33.34
278.0	000.0021	0653.3	008.1	089.5	000.1400	0066.1	047.3	33.21
279.0	000.0020	0658.6	008.0	089.4	000.1400	0065.3	047.4	33.08
280.0	000.0019	0662.5	007.9	089.2	000.1400	0064.5	047.6	32.96
281.0	000.0019	0665.2	007.8	089.1	000.1400	0063.8	047.7	32.84
282.0	000.0018	0666.5	007.7	089.0	000.1400	0063.5	047.8	32.76
283.0	000.0017	0665.8	007.5	088.8	000.1400	0063.4	048.0	32.71
284.0	000.0017	0665.0	007.4	088.7	000.1400	0063.4	048.1	32.66
285.0	000.0016	0664.7	007.3	088.6	000.1400	0063.4	048.3	32.61
286.0	000.0015	0664.6	007.2	088.5	000.1400	0063.3	048.4	32.56
287.0	000.0015	0662.7	007.1	088.4	000.1400	0063.3	048.6	32.50
288.0	000.0014	0660.3	007.0	088.3	000.1400	0063.2	048.7	32.45
289.0	000.0014	0658.1	006.8	088.2	000.1400	0063.1	048.9	32.39
290.0	000.0013	0655.6	006.7	088.1	000.1400	0063.1	049.0	32.34
291.0	000.0012	0652.4	006.6	088.1	000.1400	0063.0	049.2	32.28
292.0	000.0012	0648.9	006.5	088.0	000.1400	0063.0	049.3	32.23
293.0	000.0011	0647.1	006.4	087.9	000.1400	0062.9	049.5	32.18
294.0	000.0011	0645.2	006.3	087.9	000.1400	0062.9	049.6	32.13
295.0	000.0011	0642.1	006.2	087.8	000.1400	0062.9	049.8	32.08
296.0	000.0010	0638.8	006.1	087.8	000.1400	0062.8	049.9	32.03
297.0	000.0010	0637.0	005.9	087.7	000.1400	0062.8	050.1	31.98
298.0	000.0009	0636.9	005.8	087.7	000.1400	0062.8	050.2	31.93
299.0	000.0009	0637.1	005.7	087.6	000.1400	0062.8	050.4	31.89
300.0	000.0008	0636.1	005.6	087.6	000.1400	0062.8	050.5	31.84
301.0	000.0008	0634.5	005.5	087.6	000.1400	0062.8	050.6	31.80
302.0	000.0008	0632.5	005.5	087.5	000.1400	0062.8	050.7	31.76
303.0	000.0008	0629.9	005.4	087.5	000.1400	0062.7	050.8	31.73
304.0	000.0008	0626.5	005.3	087.4	000.1400	0062.7	050.9	31.69
305.0	000.0007	0621.9	005.3	087.4	000.1400	0062.7	051.1	31.65

Munn-Reese, Inc.

Broadcast Engineering Consultants

Coldwater, MI 49036

Exhibit 13.6

Contour Protection Toward CH277D - Tacoma, WA (BNPFT-20030317KFM)

05-10-2010 NGDC 30 SEC Terrain Data

642534 BNPFT20030317KLL

CH277D

Channel = 277D

Max ERP = 0.14 kW

RCAMSL = 137.9 M

N. Lat. 46 58 53.7

W. Lng. 123 51 49.4

Protected

60 dBu

Channel = 277D

Max ERP = 0.01 kW

RCAMSL = 842 M

N. Lat. 46 58 24.0

W. Lng. 123 08 11.0

Interfering

40 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
050.0	000.1400	0046.7	007.6	277.0	000.0022	0645.1	049.8	34.22	
051.0	000.1400	0047.3	007.7	276.9	000.0022	0644.5	049.7	34.27	
052.0	000.1400	0048.6	007.8	276.9	000.0022	0644.4	049.5	34.34	
053.0	000.1400	0050.2	007.9	276.9	000.0022	0644.4	049.3	34.41	
054.0	000.1400	0051.6	008.1	276.9	000.0022	0644.3	049.1	34.48	
055.0	000.1400	0053.2	008.2	276.9	000.0022	0644.2	048.9	34.55	
056.0	000.1400	0055.7	008.4	276.9	000.0022	0644.5	048.7	34.65	
057.0	000.1400	0059.0	008.7	277.0	000.0022	0645.1	048.4	34.75	
058.0	000.1400	0062.1	008.9	277.0	000.0022	0645.3	048.1	34.85	
059.0	000.1400	0063.8	009.0	276.9	000.0022	0644.7	047.9	34.92	
060.0	000.1400	0063.9	009.0	276.8	000.0022	0643.4	047.8	34.96	
061.0	000.1400	0062.3	008.9	276.5	000.0022	0641.4	047.8	34.97	
062.0	000.1400	0059.4	008.7	276.3	000.0022	0639.0	047.9	34.96	
063.0	000.1400	0055.8	008.4	275.9	000.0023	0636.5	048.0	34.92	
064.0	000.1400	0052.0	008.1	275.6	000.0023	0634.6	048.3	34.88	
065.0	000.1400	0048.3	007.8	275.2	000.0023	0633.2	048.5	34.84	
066.0	000.1400	0045.0	007.5	274.9	000.0024	0632.2	048.7	34.80	
067.0	000.1400	0042.0	007.2	274.6	000.0024	0631.6	048.9	34.77	
068.0	000.1400	0039.3	007.0	274.4	000.0024	0631.0	049.0	34.75	
069.0	000.1400	0037.0	006.8	274.1	000.0024	0630.8	049.1	34.73	
070.0	000.1400	0034.9	006.6	273.9	000.0024	0630.7	049.3	34.72	
071.0	000.1400	0033.2	006.4	273.7	000.0025	0630.6	049.4	34.71	
072.0	000.1400	0031.6	006.3	273.6	000.0025	0630.5	049.4	34.71	
073.0	000.1400	0032.1	006.3	273.5	000.0025	0630.4	049.4	34.75	
074.0	000.1400	0035.3	006.6	273.4	000.0025	0630.4	049.1	34.86	
075.0	000.1400	0040.1	007.0	273.5	000.0025	0630.4	048.6	35.02	
076.0	000.1400	0045.0	007.5	273.5	000.0025	0630.5	048.2	35.18	
077.0	000.1400	0049.0	007.8	273.5	000.0025	0630.4	047.8	35.33	
078.0	000.1400	0052.4	008.1	273.4	000.0025	0630.4	047.4	35.46	

Munn-Reese, Inc.

Broadcast Engineering Consultants

Coldwater, MI 49036

Exhibit 13.6

Contour Protection Toward CH277D - Tacoma, WA (BNPFT-20030317KFM)

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
079.0	000.1400	0054.5	008.3	273.3	000.0025	0630.3	047.2	35.56
080.0	000.1400	0056.4	008.5	273.1	000.0025	0630.2	047.0	35.65
081.0	000.1400	0059.2	008.7	273.0	000.0025	0630.1	046.8	35.76
082.0	000.1400	0061.8	008.9	272.9	000.0025	0629.9	046.6	35.86
083.0	000.1400	0063.4	009.0	272.7	000.0026	0629.8	046.5	35.93
084.0	000.1400	0063.8	009.0	272.5	000.0026	0629.6	046.4	35.98
085.0	000.1400	0063.3	009.0	272.3	000.0026	0629.5	046.4	36.00
086.0	000.1400	0062.8	009.0	272.1	000.0026	0629.6	046.4	36.03
087.0	000.1400	0062.7	009.0	271.9	000.0026	0629.8	046.4	36.06
088.0	000.1400	0063.0	009.0	271.7	000.0026	0630.1	046.4	36.11
089.0	000.1400	0063.6	009.0	271.6	000.0027	0630.6	046.3	36.16
090.0	000.1400	0068.8	009.4	271.4	000.0027	0631.0	046.0	36.33
091.0	000.1400	0074.3	009.7	271.2	000.0027	0631.5	045.6	36.50
092.0	000.1400	0079.7	010.0	270.9	000.0027	0631.6	045.3	36.66
093.0	000.1400	0085.2	010.4	270.7	000.0027	0631.0	045.0	36.82
094.0	000.1400	0088.3	010.5	270.4	000.0028	0630.2	044.8	36.91
095.0	000.1400	0090.2	010.7	270.2	000.0028	0629.4	044.7	36.97
096.0	000.1400	0092.0	010.8	269.9	000.0028	0628.5	044.7	37.02
097.0	000.1400	0093.6	010.8	269.7	000.0028	0627.7	044.6	37.08
098.0	000.1400	0094.8	010.9	269.4	000.0029	0626.8	044.6	37.12
099.0	000.1400	0095.5	010.9	269.2	000.0029	0626.0	044.5	37.15
100.0	000.1400	0095.9	011.0	268.9	000.0029	0625.1	044.6	37.17
101.0	000.1400	0096.1	011.0	268.7	000.0029	0624.3	044.6	37.19
102.0	000.1400	0096.3	011.0	268.5	000.0030	0623.4	044.6	37.20
103.0	000.1400	0096.6	011.0	268.2	000.0030	0622.6	044.7	37.22
104.0	000.1400	0096.8	011.0	268.0	000.0030	0621.7	044.7	37.23
105.0	000.1400	0097.0	011.0	267.7	000.0031	0620.9	044.7	37.24
106.0	000.1400	0097.2	011.0	267.5	000.0031	0620.0	044.8	37.24
107.0	000.1400	0096.9	011.0	267.3	000.0031	0619.2	044.9	37.23
108.0	000.1400	0096.3	011.0	267.0	000.0031	0618.5	045.0	37.22
109.0	000.1400	0096.0	011.0	266.8	000.0032	0617.7	045.1	37.21
110.0	000.1400	0095.9	011.0	266.6	000.0032	0616.8	045.1	37.20
111.0	000.1400	0096.2	011.0	266.4	000.0032	0615.8	045.2	37.19
112.0	000.1400	0095.1	010.9	266.2	000.0032	0615.0	045.3	37.16
113.0	000.1400	0092.2	010.8	266.1	000.0032	0614.5	045.6	37.08
114.0	000.1400	0087.2	010.5	266.0	000.0032	0614.4	045.9	36.96
115.0	000.1400	0081.7	010.2	266.0	000.0032	0614.4	046.3	36.82
116.0	000.1400	0077.7	009.9	266.0	000.0033	0614.2	046.6	36.71
117.0	000.1400	0075.4	009.8	265.9	000.0033	0613.8	046.8	36.64
118.0	000.1400	0074.3	009.7	265.8	000.0033	0613.3	046.9	36.60
119.0	000.1400	0073.3	009.6	265.6	000.0033	0612.8	047.1	36.56
120.0	000.1400	0072.0	009.6	265.5	000.0033	0612.3	047.2	36.51
121.0	000.1400	0070.7	009.5	265.4	000.0033	0611.9	047.4	36.46
122.0	000.1400	0069.3	009.4	265.3	000.0033	0611.6	047.6	36.40
123.0	000.1400	0067.8	009.3	265.2	000.0033	0611.3	047.7	36.35
124.0	000.1400	0065.9	009.2	265.2	000.0033	0611.0	048.0	36.28
125.0	000.1400	0064.3	009.1	265.1	000.0034	0610.8	048.1	36.22

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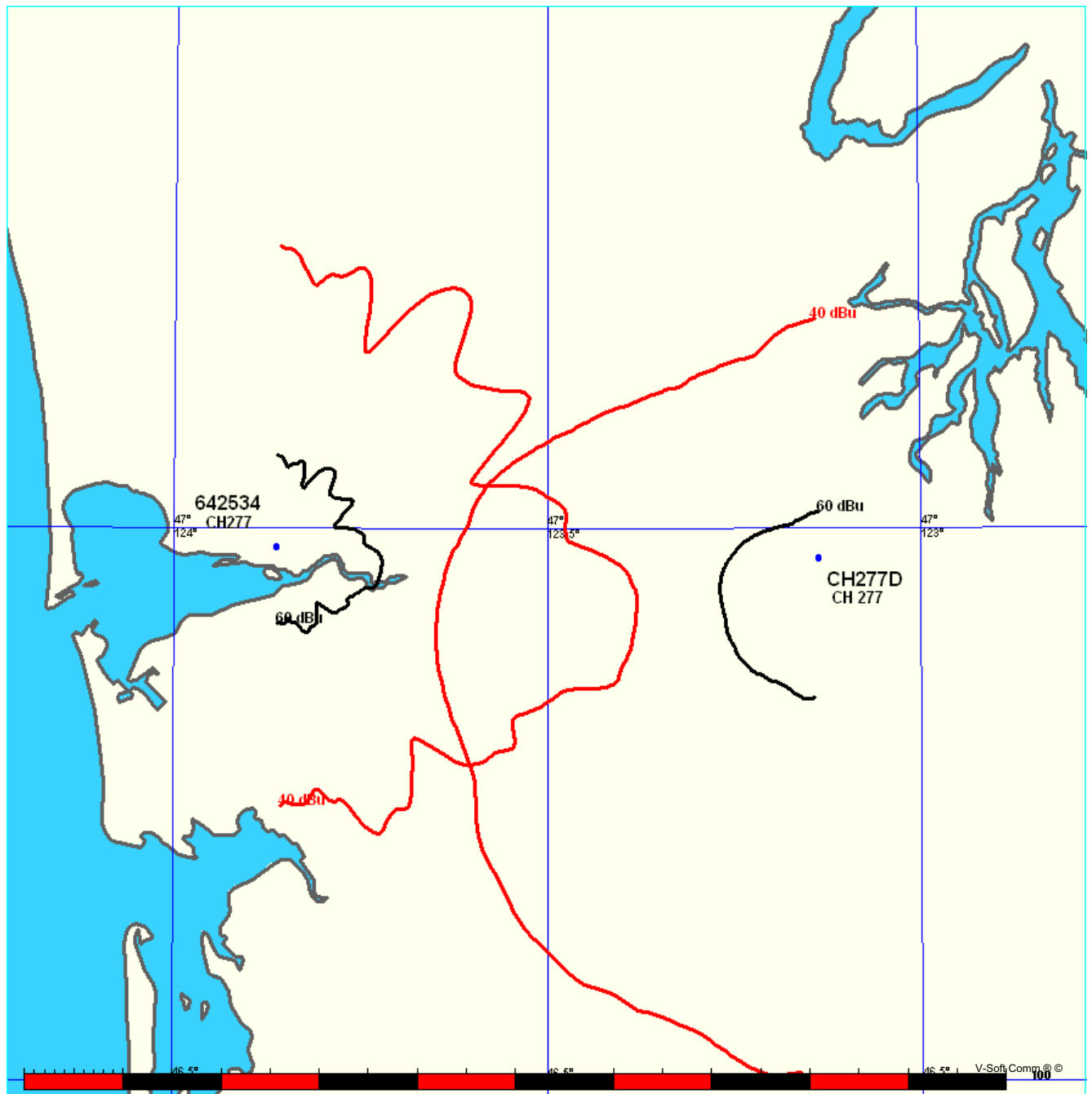
Exhibit 13.6

Contour Protection Toward CH277D - Aberdeen, WA (BNPFT-20030317KLL)

FMCommander Single Allocation Study - 05-10-2010 - NGDC 30 SEC
CH277D's Overlaps (In= 14.55 km, Out= 8.54 km)

CH277D CH 277 D DA
Lat= 46 58 24.0, Lng= 123 08 11.0
0.01 kW 0 M HAAT, 842 M COR
Prot.= 60 dBu, Intef.= 40 dBu

642534 CH 277 D BNPFT20030317KLL
Lat= 46 58 53.7, Lng= 123 51 49.4
0.14 kW 0 M HAAT, 137.9 M COR
Prot.= 60 dBu, Intef.= 40 dBu



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Exhibit 13.6

Contour Protection Toward CH277D - Aberdeen, WA (BNPFT-20030317KLL)

05-10-2010

NGDC 30 SEC Terrain Data

FMOver Analysis

CH277D

642534 BNPFT20030317KLL

Channel = 277D

Max ERP = 0.01 kW

RCAMSL = 842 M

N. Lat. 46 58 24.0

W. Lng. 123 08 11.0

Protected

60 dBu

Channel = 277D

Max ERP = 0.14 kW

RCAMSL = 137.9 M

N. Lat. 46 58 53.7

W. Lng. 123 51 49.4

Interfering

40 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
230.0	000.0077	0549.5	012.1	100.5	000.1400	0096.0	046.9	36.11	
231.0	000.0076	0546.5	012.0	100.2	000.1400	0095.9	046.8	36.15	
232.0	000.0075	0542.0	011.9	100.0	000.1400	0095.9	046.7	36.18	
233.0	000.0074	0536.1	011.8	099.7	000.1400	0095.8	046.7	36.20	
234.0	000.0073	0529.2	011.7	099.4	000.1400	0095.7	046.6	36.22	
235.0	000.0071	0522.5	011.6	099.2	000.1400	0095.6	046.5	36.23	
236.0	000.0070	0516.6	011.5	098.9	000.1400	0095.4	046.4	36.25	
237.0	000.0069	0512.3	011.4	098.6	000.1400	0095.3	046.4	36.27	
238.0	000.0068	0510.1	011.3	098.4	000.1400	0095.2	046.3	36.28	
239.0	000.0067	0509.6	011.2	098.2	000.1400	0095.0	046.2	36.30	
240.0	000.0066	0510.5	011.2	097.9	000.1400	0094.7	046.1	36.31	
241.0	000.0064	0512.5	011.1	097.7	000.1400	0094.5	046.1	36.32	
242.0	000.0063	0514.9	011.1	097.5	000.1400	0094.2	046.0	36.32	
243.0	000.0062	0517.6	011.0	097.2	000.1400	0093.9	045.9	36.33	
244.0	000.0061	0520.8	011.0	097.0	000.1400	0093.6	045.8	36.33	
245.0	000.0059	0524.5	010.9	096.8	000.1400	0093.3	045.8	36.32	
246.0	000.0058	0528.4	010.9	096.5	000.1400	0092.9	045.7	36.31	
247.0	000.0057	0532.5	010.9	096.3	000.1400	0092.5	045.7	36.30	
248.0	000.0056	0535.9	010.8	096.1	000.1400	0092.1	045.6	36.28	
249.0	000.0054	0539.6	010.8	095.8	000.1400	0091.7	045.6	36.26	
250.0	000.0053	0543.6	010.7	095.6	000.1400	0091.2	045.5	36.24	
251.0	000.0052	0548.3	010.7	095.3	000.1400	0090.8	045.5	36.21	
252.0	000.0050	0553.4	010.6	095.1	000.1400	0090.3	045.5	36.18	
253.0	000.0049	0559.1	010.5	094.8	000.1400	0089.9	045.4	36.15	
254.0	000.0048	0564.4	010.5	094.6	000.1400	0089.4	045.4	36.12	
255.0	000.0046	0569.1	010.4	094.4	000.1400	0089.0	045.4	36.08	
256.0	000.0045	0574.0	010.4	094.1	000.1400	0088.6	045.4	36.04	
257.0	000.0044	0579.0	010.3	093.9	000.1400	0088.1	045.4	35.99	
258.0	000.0042	0583.7	010.2	093.6	000.1400	0087.5	045.5	35.93	
259.0	000.0041	0588.3	010.1	093.4	000.1400	0086.8	045.5	35.86	
260.0	000.0040	0592.8	010.1	093.1	000.1400	0085.9	045.5	35.76	
261.0	000.0038	0596.5	010.0	092.9	000.1400	0084.7	045.6	35.63	

Munn-Reese, Inc.

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Coldwater, MI 49036

Exhibit 13.6

Contour Protection Toward CH277D - Aberdeen, WA (BNPFT-20030317KLL)

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
262.0	000.0037	0599.5	009.9	092.7	000.1400	0083.4	045.6	35.49
263.0	000.0036	0603.3	009.8	092.4	000.1400	0082.1	045.7	35.35
264.0	000.0035	0606.8	009.7	092.2	000.1400	0080.9	045.8	35.20
265.0	000.0034	0610.4	009.6	092.0	000.1400	0079.6	045.8	35.06
266.0	000.0032	0614.3	009.5	091.8	000.1400	0078.4	045.9	34.91
267.0	000.0031	0618.3	009.4	091.5	000.1400	0077.2	046.0	34.76
268.0	000.0030	0621.9	009.3	091.3	000.1400	0076.0	046.1	34.61
269.0	000.0029	0625.3	009.1	091.1	000.1400	0074.9	046.2	34.46
270.0	000.0028	0628.7	009.0	090.9	000.1400	0073.8	046.3	34.31
271.0	000.0027	0631.6	008.9	090.7	000.1400	0072.7	046.4	34.17
272.0	000.0026	0629.7	008.8	090.5	000.1400	0071.7	046.6	34.02
273.0	000.0025	0630.1	008.7	090.3	000.1400	0070.7	046.7	33.88
274.0	000.0024	0630.7	008.6	090.2	000.1400	0069.7	046.8	33.74
275.0	000.0024	0632.5	008.4	090.0	000.1400	0068.8	046.9	33.60
276.0	000.0023	0637.1	008.3	089.8	000.1400	0067.9	047.1	33.46
277.0	000.0022	0645.4	008.2	089.7	000.1400	0067.0	047.2	33.34
278.0	000.0021	0653.3	008.1	089.5	000.1400	0066.1	047.3	33.21
279.0	000.0020	0658.6	008.0	089.4	000.1400	0065.3	047.4	33.08
280.0	000.0019	0662.5	007.9	089.2	000.1400	0064.5	047.6	32.96
281.0	000.0019	0665.2	007.8	089.1	000.1400	0063.8	047.7	32.84
282.0	000.0018	0666.5	007.7	089.0	000.1400	0063.5	047.8	32.76
283.0	000.0017	0665.8	007.5	088.8	000.1400	0063.4	048.0	32.71
284.0	000.0017	0665.0	007.4	088.7	000.1400	0063.4	048.1	32.66
285.0	000.0016	0664.7	007.3	088.6	000.1400	0063.4	048.3	32.61
286.0	000.0015	0664.6	007.2	088.5	000.1400	0063.3	048.4	32.56
287.0	000.0015	0662.7	007.1	088.4	000.1400	0063.3	048.6	32.50
288.0	000.0014	0660.3	007.0	088.3	000.1400	0063.2	048.7	32.45
289.0	000.0014	0658.1	006.8	088.2	000.1400	0063.1	048.9	32.39
290.0	000.0013	0655.6	006.7	088.1	000.1400	0063.1	049.0	32.34
291.0	000.0012	0652.4	006.6	088.1	000.1400	0063.0	049.2	32.28
292.0	000.0012	0648.9	006.5	088.0	000.1400	0063.0	049.3	32.23
293.0	000.0011	0647.1	006.4	087.9	000.1400	0062.9	049.5	32.18
294.0	000.0011	0645.2	006.3	087.9	000.1400	0062.9	049.6	32.13
295.0	000.0011	0642.1	006.2	087.8	000.1400	0062.9	049.8	32.08
296.0	000.0010	0638.8	006.1	087.8	000.1400	0062.8	049.9	32.03
297.0	000.0010	0637.0	005.9	087.7	000.1400	0062.8	050.1	31.98
298.0	000.0009	0636.9	005.8	087.7	000.1400	0062.8	050.2	31.93
299.0	000.0009	0637.1	005.7	087.6	000.1400	0062.8	050.4	31.89
300.0	000.0008	0636.1	005.6	087.6	000.1400	0062.8	050.5	31.84
301.0	000.0008	0634.5	005.5	087.6	000.1400	0062.8	050.6	31.80
302.0	000.0008	0632.5	005.5	087.5	000.1400	0062.8	050.7	31.76
303.0	000.0008	0629.9	005.4	087.5	000.1400	0062.7	050.8	31.73
304.0	000.0008	0626.5	005.3	087.4	000.1400	0062.7	050.9	31.69
305.0	000.0007	0621.9	005.3	087.4	000.1400	0062.7	051.1	31.65

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Coldwater, MI 49036

Exhibit 13.6

Contour Protection Toward CH277D - Aberdeen, WA (BNPFT-20030317KLL)

05-10-2010 NGDC 30 SEC Terrain Data

642534 BNPFT20030317KLL

CH277D

Channel = 277D

Max ERP = 0.14 kW

RCAMSL = 137.9 M

N. Lat. 46 58 53.7

W. Lng. 123 51 49.4

Protected

60 dBu

Channel = 277D

Max ERP = 0.01 kW

RCAMSL = 842 M

N. Lat. 46 58 24.0

W. Lng. 123 08 11.0

Interfering

40 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
046.0	000.1400	0046.5	007.6	277.3	000.0022	0648.3	050.2	34.05	
047.0	000.1400	0045.9	007.5	277.2	000.0022	0647.2	050.2	34.08	
048.0	000.1400	0046.2	007.6	277.1	000.0022	0646.5	050.1	34.13	
049.0	000.1400	0046.6	007.6	277.1	000.0022	0645.9	049.9	34.18	
050.0	000.1400	0046.7	007.6	277.0	000.0022	0645.1	049.8	34.22	
051.0	000.1400	0047.3	007.7	276.9	000.0022	0644.5	049.7	34.27	
052.0	000.1400	0048.6	007.8	276.9	000.0022	0644.4	049.5	34.34	
053.0	000.1400	0050.2	007.9	276.9	000.0022	0644.4	049.3	34.41	
054.0	000.1400	0051.6	008.1	276.9	000.0022	0644.3	049.1	34.48	
055.0	000.1400	0053.2	008.2	276.9	000.0022	0644.2	048.9	34.55	
056.0	000.1400	0055.7	008.4	276.9	000.0022	0644.5	048.7	34.65	
057.0	000.1400	0059.0	008.7	277.0	000.0022	0645.1	048.4	34.75	
058.0	000.1400	0062.1	008.9	277.0	000.0022	0645.3	048.1	34.85	
059.0	000.1400	0063.8	009.0	276.9	000.0022	0644.7	047.9	34.92	
060.0	000.1400	0063.9	009.0	276.8	000.0022	0643.4	047.8	34.96	
061.0	000.1400	0062.3	008.9	276.5	000.0022	0641.4	047.8	34.97	
062.0	000.1400	0059.4	008.7	276.3	000.0022	0639.0	047.9	34.96	
063.0	000.1400	0055.8	008.4	275.9	000.0023	0636.5	048.0	34.92	
064.0	000.1400	0052.0	008.1	275.6	000.0023	0634.6	048.3	34.88	
065.0	000.1400	0048.3	007.8	275.2	000.0023	0633.2	048.5	34.84	
066.0	000.1400	0045.0	007.5	274.9	000.0024	0632.2	048.7	34.80	
067.0	000.1400	0042.0	007.2	274.6	000.0024	0631.6	048.9	34.77	
068.0	000.1400	0039.3	007.0	274.4	000.0024	0631.0	049.0	34.75	
069.0	000.1400	0037.0	006.8	274.1	000.0024	0630.8	049.1	34.73	
070.0	000.1400	0034.9	006.6	273.9	000.0024	0630.7	049.3	34.72	
071.0	000.1400	0033.2	006.4	273.7	000.0025	0630.6	049.4	34.71	
072.0	000.1400	0031.6	006.3	273.6	000.0025	0630.5	049.4	34.71	
073.0	000.1400	0032.1	006.3	273.5	000.0025	0630.4	049.4	34.75	
074.0	000.1400	0035.3	006.6	273.4	000.0025	0630.4	049.1	34.86	
075.0	000.1400	0040.1	007.0	273.5	000.0025	0630.4	048.6	35.02	
076.0	000.1400	0045.0	007.5	273.5	000.0025	0630.5	048.2	35.18	
077.0	000.1400	0049.0	007.8	273.5	000.0025	0630.4	047.8	35.33	
078.0	000.1400	0052.4	008.1	273.4	000.0025	0630.4	047.4	35.46	

Munn-Reese, Inc.

Broadcast Engineering Consultants

Coldwater, MI 49036

Exhibit 13.6

Contour Protection Toward CH277D - Aberdeen, WA (BNPFT-20030317KLL)

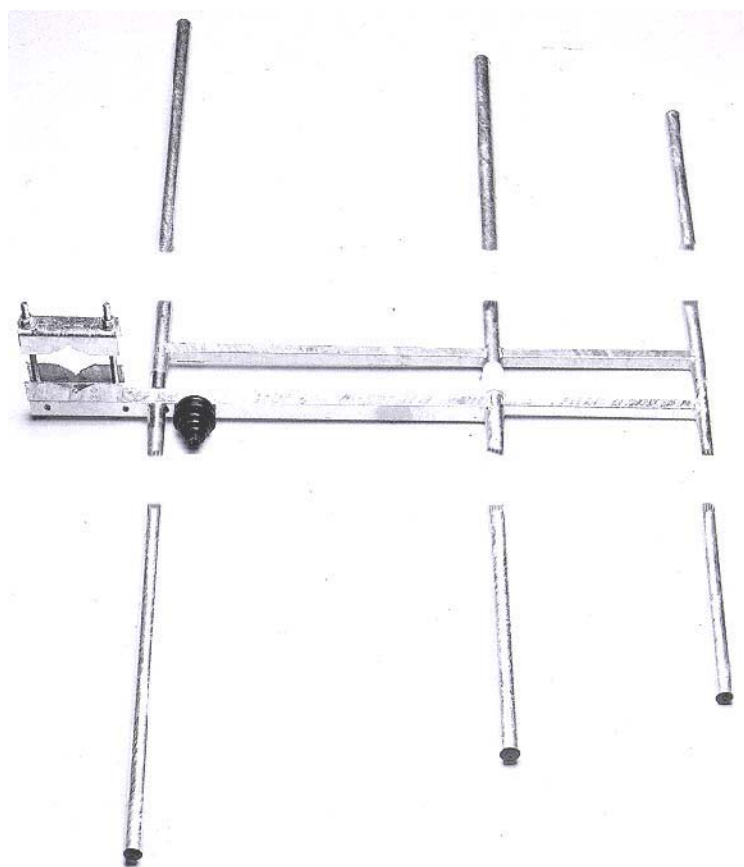
Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
079.0	000.1400	0054.5	008.3	273.3	000.0025	0630.3	047.2	35.56
080.0	000.1400	0056.4	008.5	273.1	000.0025	0630.2	047.0	35.65
081.0	000.1400	0059.2	008.7	273.0	000.0025	0630.1	046.8	35.76
082.0	000.1400	0061.8	008.9	272.9	000.0025	0629.9	046.6	35.86
083.0	000.1400	0063.4	009.0	272.7	000.0026	0629.8	046.5	35.93
084.0	000.1400	0063.8	009.0	272.5	000.0026	0629.6	046.4	35.98
085.0	000.1400	0063.3	009.0	272.3	000.0026	0629.5	046.4	36.00
086.0	000.1400	0062.8	009.0	272.1	000.0026	0629.6	046.4	36.03
087.0	000.1400	0062.7	009.0	271.9	000.0026	0629.8	046.4	36.06
088.0	000.1400	0063.0	009.0	271.7	000.0026	0630.1	046.4	36.11
089.0	000.1400	0063.6	009.0	271.6	000.0027	0630.6	046.3	36.16
090.0	000.1400	0068.8	009.4	271.4	000.0027	0631.0	046.0	36.33
091.0	000.1400	0074.3	009.7	271.2	000.0027	0631.5	045.6	36.50
092.0	000.1400	0079.7	010.0	270.9	000.0027	0631.6	045.3	36.66
093.0	000.1400	0085.2	010.4	270.7	000.0027	0631.0	045.0	36.82
094.0	000.1400	0088.3	010.5	270.4	000.0028	0630.2	044.8	36.91
095.0	000.1400	0090.2	010.7	270.2	000.0028	0629.4	044.7	36.97
096.0	000.1400	0092.0	010.8	269.9	000.0028	0628.5	044.7	37.02
097.0	000.1400	0093.6	010.8	269.7	000.0028	0627.7	044.6	37.08
098.0	000.1400	0094.8	010.9	269.4	000.0029	0626.8	044.6	37.12
099.0	000.1400	0095.5	010.9	269.2	000.0029	0626.0	044.5	37.15
100.0	000.1400	0095.9	011.0	268.9	000.0029	0625.1	044.6	37.17
101.0	000.1400	0096.1	011.0	268.7	000.0029	0624.3	044.6	37.19
102.0	000.1400	0096.3	011.0	268.5	000.0030	0623.4	044.6	37.20
103.0	000.1400	0096.6	011.0	268.2	000.0030	0622.6	044.7	37.22
104.0	000.1400	0096.8	011.0	268.0	000.0030	0621.7	044.7	37.23
105.0	000.1400	0097.0	011.0	267.7	000.0031	0620.9	044.7	37.24
106.0	000.1400	0097.2	011.0	267.5	000.0031	0620.0	044.8	37.24
107.0	000.1400	0096.9	011.0	267.3	000.0031	0619.2	044.9	37.23
108.0	000.1400	0096.3	011.0	267.0	000.0031	0618.5	045.0	37.22
109.0	000.1400	0096.0	011.0	266.8	000.0032	0617.7	045.1	37.21
110.0	000.1400	0095.9	011.0	266.6	000.0032	0616.8	045.1	37.20
111.0	000.1400	0096.2	011.0	266.4	000.0032	0615.8	045.2	37.19
112.0	000.1400	0095.1	010.9	266.2	000.0032	0615.0	045.3	37.16
113.0	000.1400	0092.2	010.8	266.1	000.0032	0614.5	045.6	37.08
114.0	000.1400	0087.2	010.5	266.0	000.0032	0614.4	045.9	36.96
115.0	000.1400	0081.7	010.2	266.0	000.0032	0614.4	046.3	36.82
116.0	000.1400	0077.7	009.9	266.0	000.0033	0614.2	046.6	36.71
117.0	000.1400	0075.4	009.8	265.9	000.0033	0613.8	046.8	36.64
118.0	000.1400	0074.3	009.7	265.8	000.0033	0613.3	046.9	36.60
119.0	000.1400	0073.3	009.6	265.6	000.0033	0612.8	047.1	36.56
120.0	000.1400	0072.0	009.6	265.5	000.0033	0612.3	047.2	36.51
121.0	000.1400	0070.7	009.5	265.4	000.0033	0611.9	047.4	36.46
122.0	000.1400	0069.3	009.4	265.3	000.0033	0611.6	047.6	36.40
123.0	000.1400	0067.8	009.3	265.2	000.0033	0611.3	047.7	36.35
124.0	000.1400	0065.9	009.2	265.2	000.0033	0611.0	048.0	36.28
125.0	000.1400	0064.3	009.1	265.1	000.0034	0610.8	048.1	36.22

Munn-Reese, Inc.

Broadcast Engineering Consultants
Coldwater, MI 49036

Exhibit 13.7 - Reprint of Directional Antenna Data from Antenna Manufacturer

(Actual Horizontal DA Pattern Component Rotated to 190°T)
(Actual Vertical DA Pattern Component Rotated to 190°T)



NICOM
BKY3/P
Medium Power
Portable
Broadband FM
Directional Antenna
Antena Portátil
Direccional
de FM Banda Ancha

This broadband dipole antenna constructed of stainless steel is designed to last a long time in any weather condition. Because of its sturdy construction it can support up to 2 kw of input power with the appropriate connector. Since it has a wide angle of radiation it is strongly recommended for omni-directional arrays. Due to the fact that it is easily disassembled and reassembled, it can be placed in a compact container making it very portable and

inexpensive to ship.

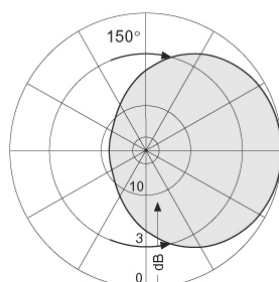
Esta antena dipolo de banda ancha, fabricada de acero inoxidable fue concebida para ser duradera en cualquier condición de clima. Debido a su robusta construcción puede soportar hasta 2 kw de potencia de entrada con el conector apropiado. Esta antena es recomendada para formaciones omnidireccionales ya que tiene un gran ángulo de irradiación. Dado al hecho que es fácil de armar y desarmar esta antena puede ser enviada en un contenedor muy compacto rendiendola portátil y económica para envíos.

TECHNICAL SPECIFICATIONS

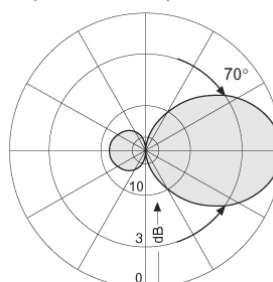
Antenna type	3 element directional antenna
Frequency range	87.5 - 108 MHz
Bandwidth	20 MHz
Impedance	50 Ohms
Connectors	N type (1 kw) - EIA 7/8 (2 kw)
Power rating	2000 Watts max.
VSWR	< 1.2 max.
Polarization	vertical or horizontal
Gain	4.5 dB (referred to half-wave dipole)
H plane	150 degrees
V plane	70 degrees

Front-to-back ratio	18 dB
Lightning protection	all parts grounded
Max wind velocity	130 mph (208 km/h)
Wind load	48.4 Lbs (22 kg)
Wind surface	2.0 ft ² (0.19 m ²)
Materials (external)	stainless steel
Mounting	from 2" to 4"
Weight	20 Lbs (9 kg)
Dimensions	50"×72"×3" (1250×1800×60mm)
Packing	53"×19"×4" (1300×480×100mm)

Radiation Patterns (at mid-band)



in H-plane
Horizontal Radiation Pattern



in E-plane
Vertical Radiation Pattern

Exhibit 13.7 - Reprint of Directional Antenna Data from Antenna Manufacturer
(Actual Horizontal DA Pattern Component Rotated to 190°T)
(Actual Vertical DA Pattern Component Rotated to 190°T)

TX station: BKY/3
Frequency: 98.00 MHz

Site name:

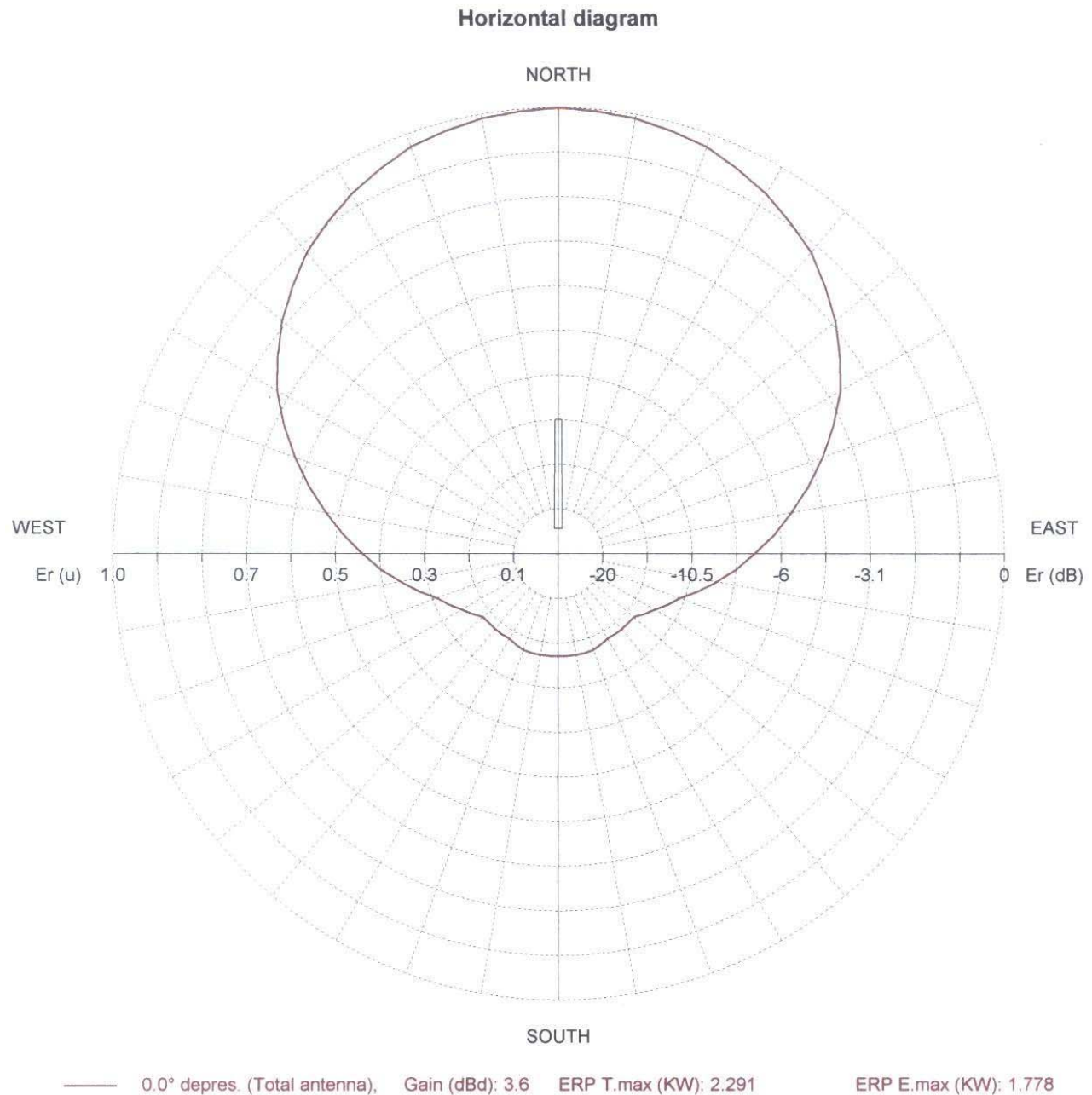


Exhibit 13.7 - Reprint of Directional Antenna Data from Antenna Manufacturer
(Actual Horizontal DA Pattern Component Rotated to 190°T)
(Actual Vertical DA Pattern Component Rotated to 190°T)

TX station: BKY/3

Site name:

Frequency: 98.00 MHz

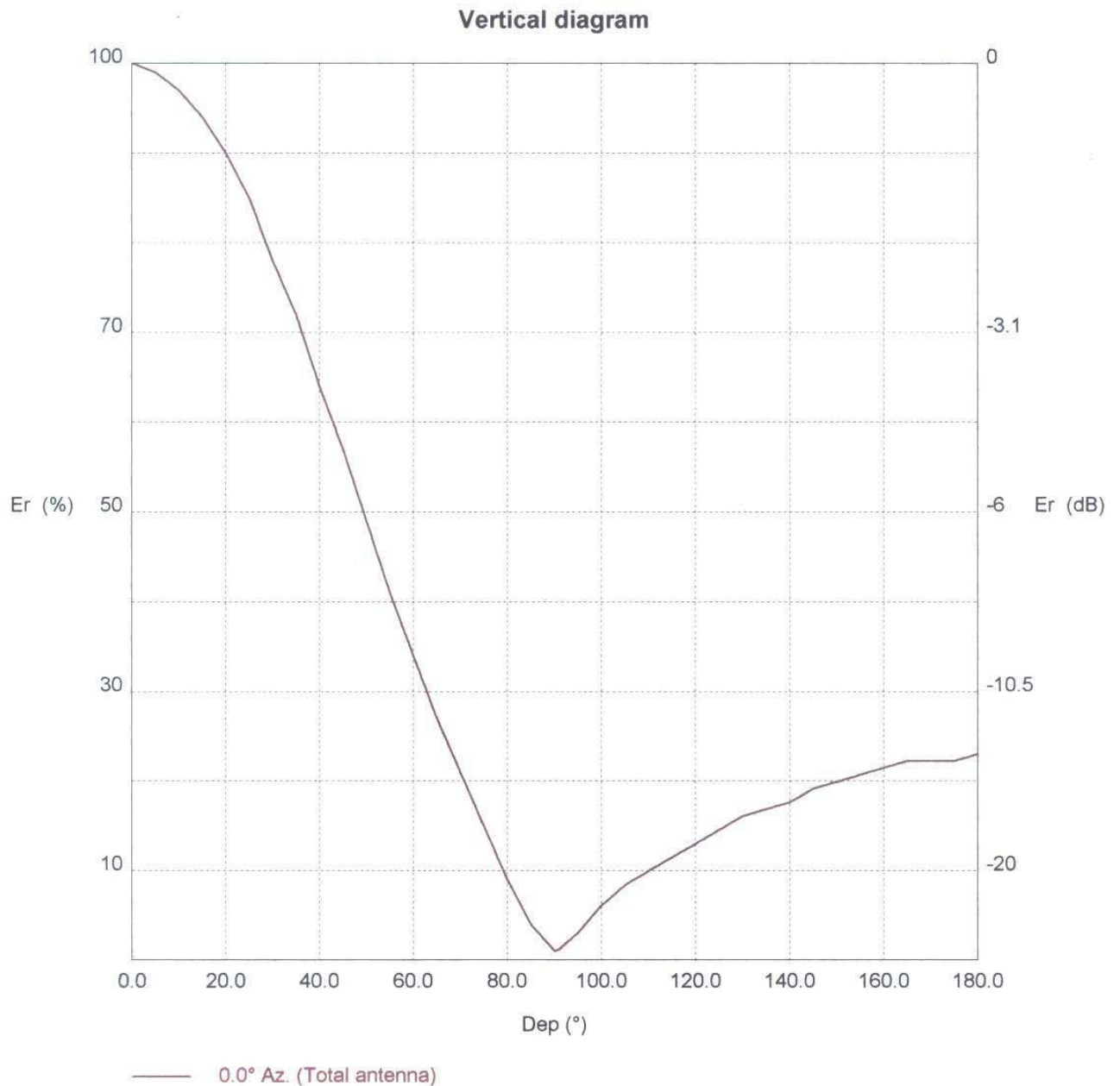


Exhibit 13.7 - Reprint of Directional Antenna Data from Antenna Manufacturer
(Actual Horizontal DA Pattern Component Rotated to 190°T)
(Actual Vertical DA Pattern Component Rotated to 190°T)

TX station: BKY/3

Site name:

Frequency: 98.00 MHz

Vertical diagram at an azimuth of 0° degrees

Dep (°)	Er (%)	ERP (KW)	Dep (°)	Er (%)	ERP (KW)	Dep (°)	Er (%)	ERP (KW)
0.0	100.0	1.78	60.0	34.0	0.21	120.0	13.0	0.03
2.0	99.6	1.76	62.0	31.2	0.17	122.0	13.6	0.03
4.0	99.2	1.75	64.0	28.4	0.14	124.0	14.3	0.04
6.0	98.6	1.73	66.0	25.8	0.12	126.0	14.9	0.04
8.0	97.8	1.70	68.0	23.4	0.10	128.0	15.5	0.04
10.0	97.0	1.67	70.0	21.0	0.08	130.0	16.1	0.05
12.0	95.8	1.63	72.0	18.6	0.06	132.0	16.4	0.05
14.0	94.6	1.59	74.0	16.2	0.05	134.0	16.7	0.05
16.0	93.2	1.54	76.0	13.8	0.03	136.0	17.0	0.05
18.0	91.6	1.49	78.0	11.4	0.02	138.0	17.3	0.05
20.0	90.0	1.44	80.0	9.0	0.01	140.0	17.6	0.06
22.0	88.0	1.38	82.0	7.0	0.01	142.0	18.2	0.06
24.0	86.0	1.32	84.0	5.0	0.00	144.0	18.9	0.06
26.0	83.6	1.24	86.0	3.4	0.00	146.0	19.3	0.07
28.0	80.8	1.16	88.0	2.2	0.00	148.0	19.6	0.07
30.0	78.0	1.08	90.0	1.0	0.00	150.0	19.9	0.07
32.0	75.6	1.02	92.0	1.7	0.00	152.0	20.2	0.07
34.0	73.2	0.95	94.0	2.6	0.00	154.0	20.5	0.08
36.0	70.4	0.88	96.0	3.7	0.00	156.0	20.9	0.08
38.0	67.2	0.80	98.0	4.9	0.00	158.0	21.2	0.08
40.0	64.0	0.73	100.0	6.1	0.01	160.0	21.5	0.08
42.0	61.2	0.67	102.0	7.1	0.01	162.0	21.8	0.08
44.0	58.4	0.61	104.0	8.0	0.01	164.0	22.1	0.09
46.0	55.4	0.55	106.0	8.7	0.01	166.0	22.2	0.09
48.0	52.2	0.48	108.0	9.4	0.02	168.0	22.2	0.09
50.0	49.0	0.43	110.0	10.0	0.02	170.0	22.2	0.09
52.0	45.8	0.37	112.0	10.6	0.02	172.0	22.2	0.09
54.0	42.6	0.32	114.0	11.2	0.02	174.0	22.2	0.09
56.0	39.6	0.28	116.0	11.8	0.02	176.0	22.4	0.09
58.0	36.8	0.24	118.0	12.4	0.03	178.0	22.7	0.09

TX station: BKY/3

Site name:

Frequency: 98.00 MHz

Horizontal diagram at 0.0° depres. (Total antenna)

Az (°)	Er (%)	ERP (KW)	Az (°)	Er (%)	ERP (KW)	Az (°)	Er (%)	ERP (KW)
0.0	100.0	1.78	120.0	25.0	0.11	240.0	25.0	0.11
10.0	99.0	1.74	130.0	22.0	0.09	250.0	29.0	0.15
20.0	97.0	1.67	140.0	22.0	0.09	260.0	36.0	0.23
30.0	93.0	1.54	150.0	22.0	0.09	270.0	44.0	0.34
40.0	88.0	1.38	160.0	23.0	0.09	280.0	53.0	0.50
50.0	81.0	1.17	170.0	23.0	0.09	290.0	63.0	0.71
60.0	73.0	0.95	180.0	23.0	0.09	300.0	73.0	0.95
70.0	63.0	0.71	190.0	23.0	0.09	310.0	81.0	1.17
80.0	53.0	0.50	200.0	23.0	0.09	320.0	88.0	1.38
90.0	44.0	0.34	210.0	22.0	0.09	330.0	93.0	1.54
100.0	36.0	0.23	220.0	22.0	0.09	340.0	97.0	1.67
110.0	29.0	0.15	230.0	22.0	0.09	350.0	99.0	1.74

