

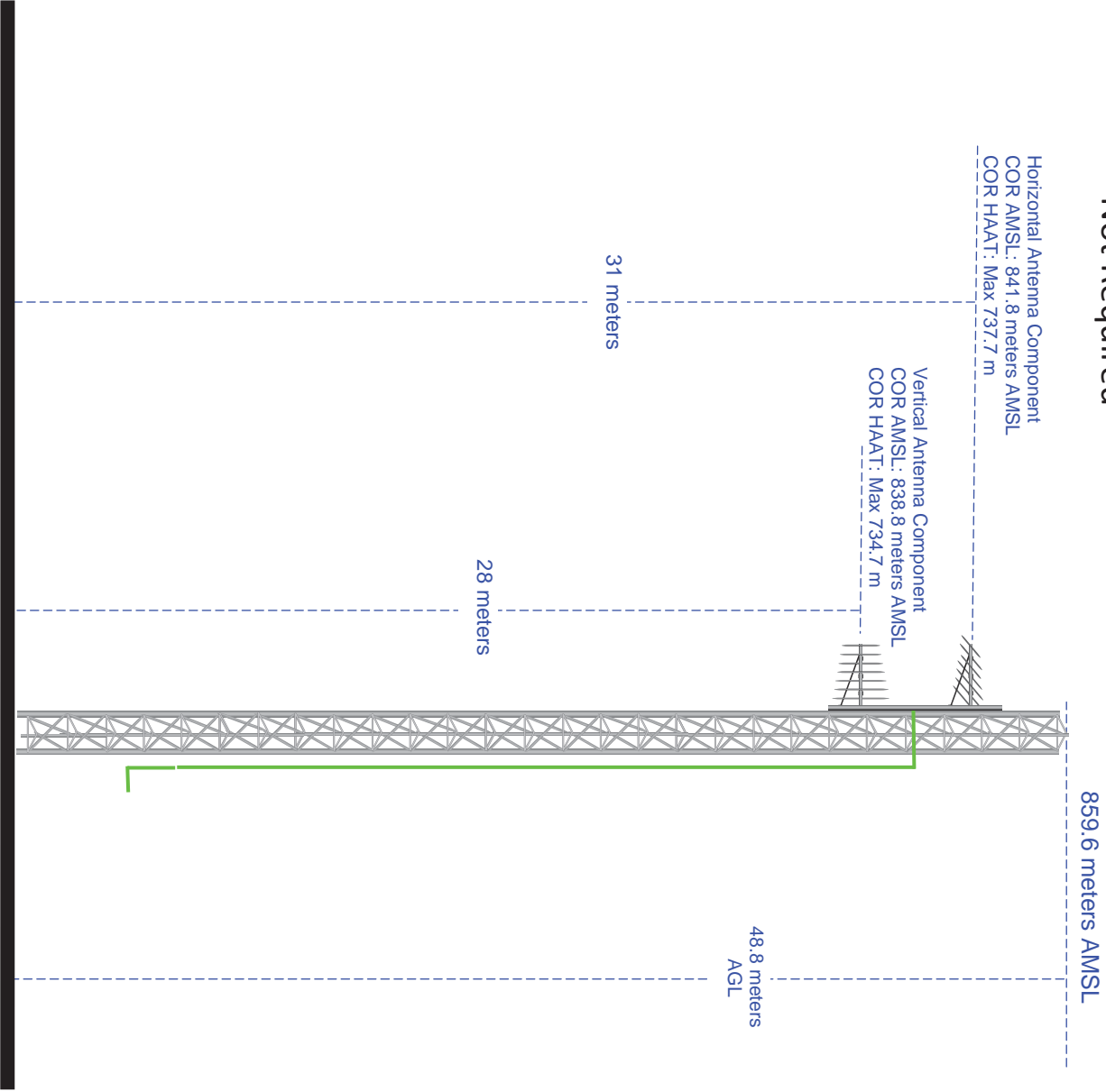
Geographic Coordinate System (WGS84)

Exhibit 13.2
Vertical Plan of Antenna System

<p>The site is located on top of Capital Peak, Thurston County, State of Washington.</p>	<p><u>Site Location (NAD 27)</u> NL: 46° 58' 24" WL: 123° 08' 11"</p>
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NOTE: Existing Tower Construction

Antenna Structure Registration No.
Not Required



Ground Elevation = 810.8 m AMSL
Drawing is not to Scale

Exhibit 13.3 Present vs. Proposed Service Contour Study

Short Form.A
Satsop, WA
Long Form Application
Latitude: 46-58-24 N
Longitude: 123-08-11 W
ERP: 0.01 kW
Channel: 292
Frequency: 106.3 MHz
AMSL Height: 842.0 m
Elevation: 811.0 m
Horiz. Pattern: Directional
Vert. Pattern: No
Prop Model: None

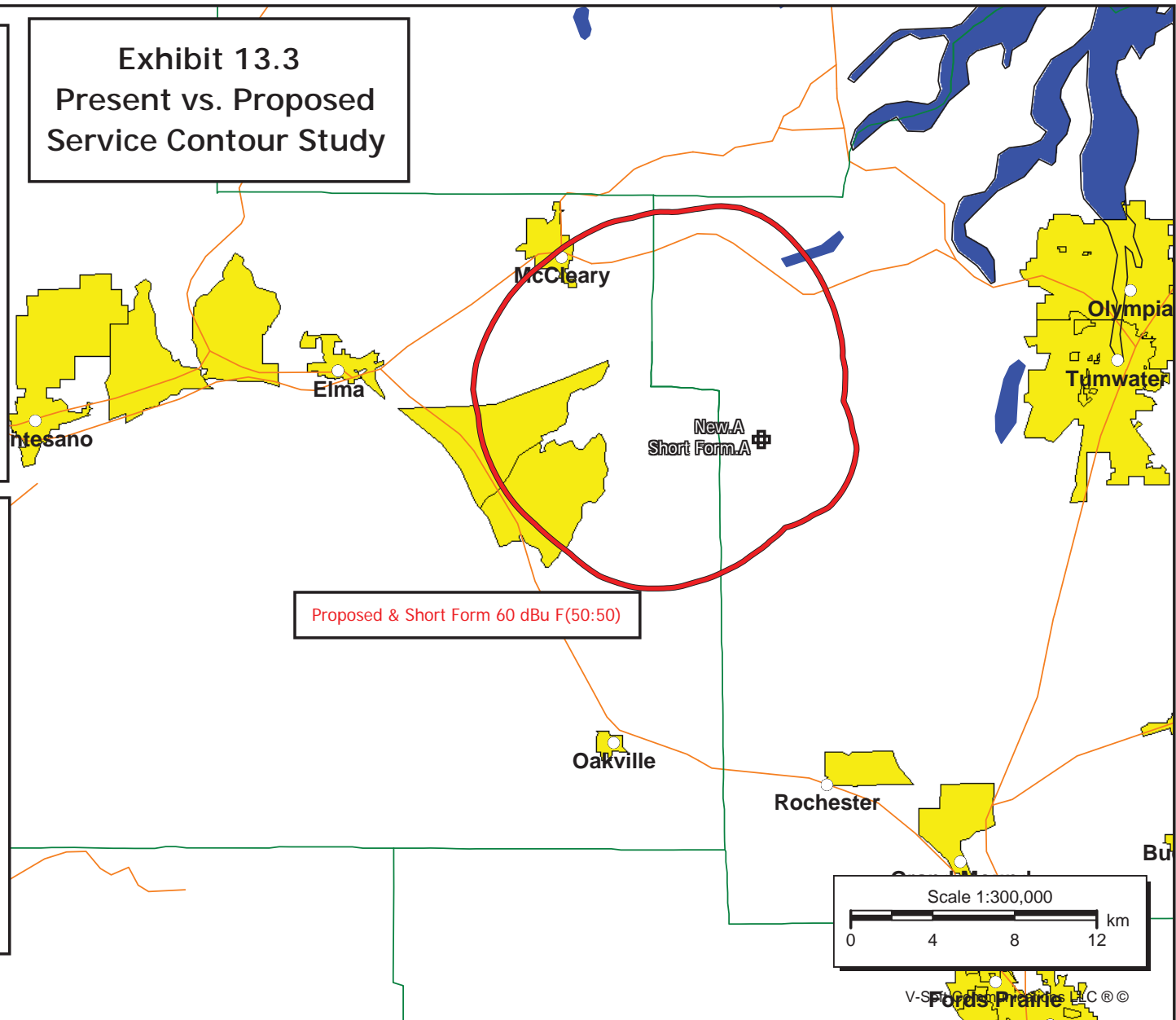
2010 Census Data:

60 dBu Contour
Total Population: 2,333
Total Area: 265 sq. km

New.A
Satsop, WA
Long Form Application
Latitude: 46-58-24 N
Longitude: 123-08-11 W
ERP: 0.01 kW
Channel: 292
Frequency: 106.3 MHz
AMSL Height: 841.8 m
Elevation: 664.493 m
Horiz. Pattern: Directional
Vert. Pattern: No
Prop Model: None

2010 Census Data

60 dBu Contour
Total Population: 2,333
Total Area: 265 sq. km



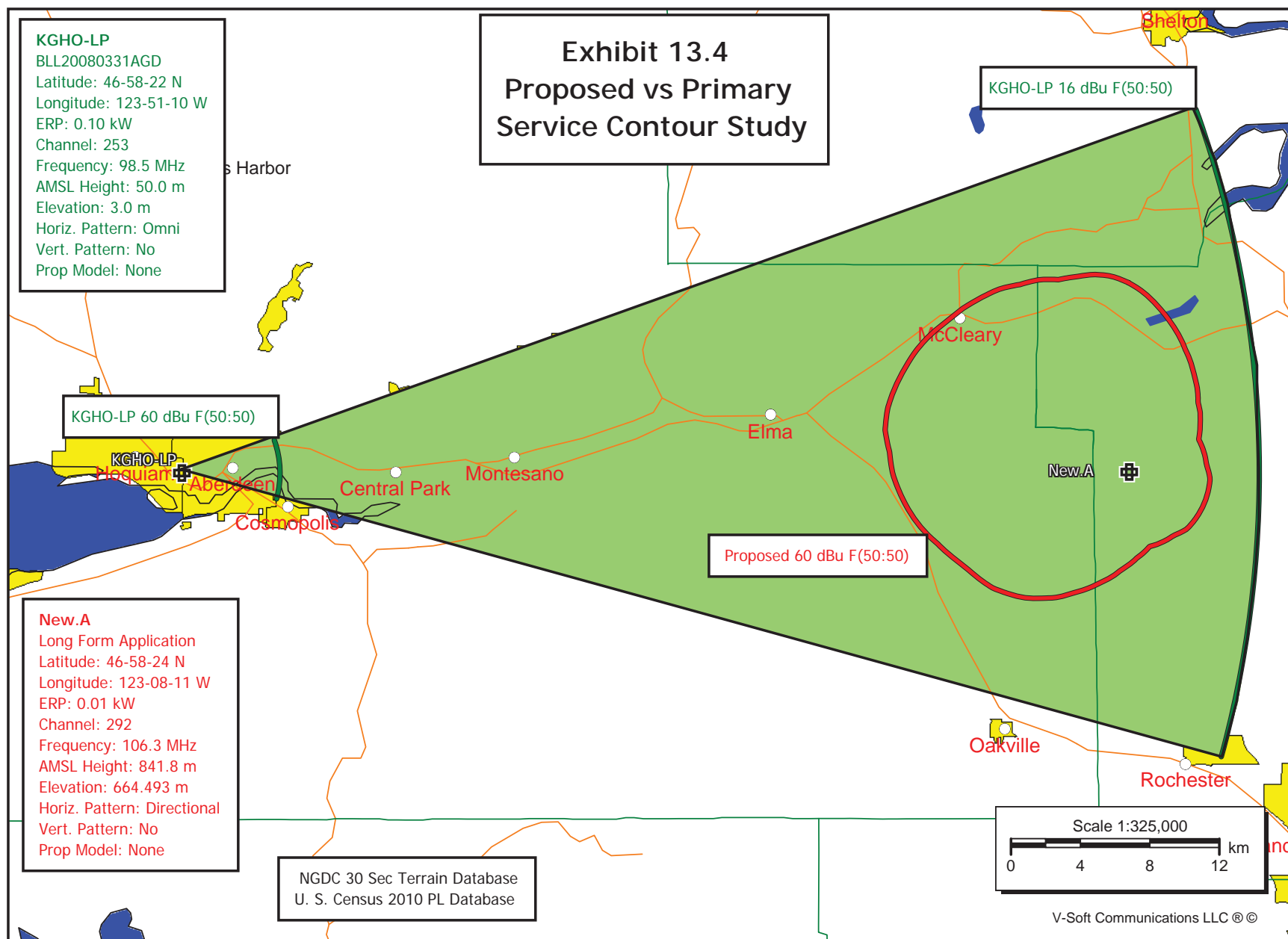


Exhibit 13.5 - Tabulation of Proposed Allocation

Munn-Reese, Inc.
Coldwater, MI 49036

REFERENCE		Northwest Rock N Roll Preservation Society										COR= 842 M		DISPLAY DATES	
46 58 24.0 N, 123 08 11.0 W.		CH#	292D	-	106.3	MHz, Pwr= 0.01 kW DA, HAAT= 638.7 M, Average Protected F(50-50) = 14.12 km Standard Directional								DATA 08-12-13 SEARCH 08-12-13	
CH	CALL	TYPE	ANT	AZI	DIST	LAT	PWR(KW)	INT(km)	PRO(km)	*IN*	*OUT*				
CITY		STATE		<--	FILE #	LONG	HAAT(M)	COR(M)	LICENSEE	(Overlap in km)					
292D	1558791	APP DC	WA	0.0	0.00	46 58 24.0	0.010	43.0	10.9	-53.9*<	-53.9*<	Northwest Rock N Roll Pres			
Satsop				0.0	BNPFT20030314AHU	123 08 11.0		842							
291C	KBKS-FM	LI C _C_	WA	55.8	106.16	47 30 17.0	73.000	139.7	95.0	-38.5*<	2.3	Amfm Texas Licenses Lic			
Tacomoma				236.6	BLH20001023AFA	121 58 04.0	698	932							
293D	1568028	APP _C_	WA	185.0	17.54	46 48 58.0	0.150	8.9	6.2	2.9	1.3	South Sound Broadcasting L			
Independence				5.0	BNPFT20130808AHZ	123 09 24.0		44							
293D	1548652	APP _C_	WA	185.0	17.54	46 48 58.0	0.150	8.9	6.2	2.9	1.3	South Sound Broadcasting L			
Independence				5.0	BNPFT20030310BNU	123 09 24.0		44							
293L1	KOWA-LP	LI C _C_	WA	68.0	14.10	47 01 15.0	0.022	5.4	3.8	4.2	2.3	Media Island International			
Olympia				248.1	BLH20040816AAB	122 57 50.0	62	158							
289C2	KJET	LI C ZCX	WA	237.6	57.32	46 41 44.0	13.500	5.3	50.5	41.3	6.7	Jodesha Broadcasting, Inc.			
Raymond				57.2	BLH20080423AEJ	123 46 17.0	290	378							
293L1	KAHS-LP	LI C _C_	WA	271.1	51.65	46 58 50.0	0.100	8.0	5.6	30.0	24.4	Aberdeen School District #			
Aberdeen				90.6	BLH20100615AER	123 49 02.0		33							
295C1	KRMM	LI C ZCX	WA	50.3	100.24	47 32 39.0	49.000	9.8	74.9	85.1	25.3	Seascape Radio, Inc.			
Bremerton				231.1	BMLH20051207AGQ	122 06 29.0	396	521							
291D	1557504	APP DC	WA	237.6	57.32	46 41 44.0	0.250	13.9	10.0	32.7	31.0	Jodesha Broadcasting, Inc.			
Raymond				57.2	BNPFT20030310B1	123 46 17.0		371							
295D	K295BO	LI C DL	WA	272.2	49.98	46 59 18.0	0.125	0.1	2.8	36.2	46.9	Grays Harbor Christian Bro			
Aberdeen				91.7	BLFT20130701ADB	123 47 42.0	68	140							
289D	KJET-FM1	LI C DV	WA	267.4	50.49	46 57 03.0	2.500	0.1	2.9	36.9	47.4	Jodesha Broadcasting, Inc.			
Aberdeen				86.9	BLFTB20030221ABI	123 48 04.0		108							
293C	KMPZ	LI C _C_	WA	6.5	190.95	48 40 46.0	68.000	135.9	92.2	44.8	82.0	Crista Ministries			
Lynden				186.7	BMLH20081008AJR	122 50 31.0	711	756							
292D	K206CL	CP _C_	OR	217.5	95.97	46 17 10.0	0.013	35.1	10.6	51.7	48.7	Calvary Chapel Of Twin Fal			
Astoria				37.0	BPFT20110810ABV	123 53 50.0		424							

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= West Zone, Co to 3rd adjacent.
All separation margins (if shown) include rounding
Ant Column: (D= DA Standard, Z= DA 73.215, N= Not DA 73.215, _= Omni), Polarization (C, H, V, E), Beamtilt(Y, N, X)
***affixed to IN or OUT values = site inside protected contour.
< = Contour Overlap

Blue Highlighted Text denotes the BNPFT-20030314AHU - Satsop, WA facility to be modified by this Form 349 filing. This facility need not be protected.

Green Highlighted Text denotes supplemental contour protection studies towards select facilities as included in Exhibit 13.6(a) - Exhibit 13.6(d).

Northwest Rock N Roll Preservation Society

FMCommander Single Allocation Study - 08-10-2013 - NGDC 30 SEC

New's Overlaps (In= 2.86 km, Out= 1.34 km)

New CH 292 D DA

Lat= 46 58 24.0, Lng= 123 08 11.0

0.01 kW 638.7 M HAAT, 842 M COR

Prot.= 60 dBu, Intef.= 54 dBu

1548652 CH 293 D BNFT20030310BNJ

Lat= 46 48 58.0, Lng= 123 09 24.0

0.15 kW 0 M HAAT, 44 M COR

Prot.= 60 dBu, Intef.= 54 dBu

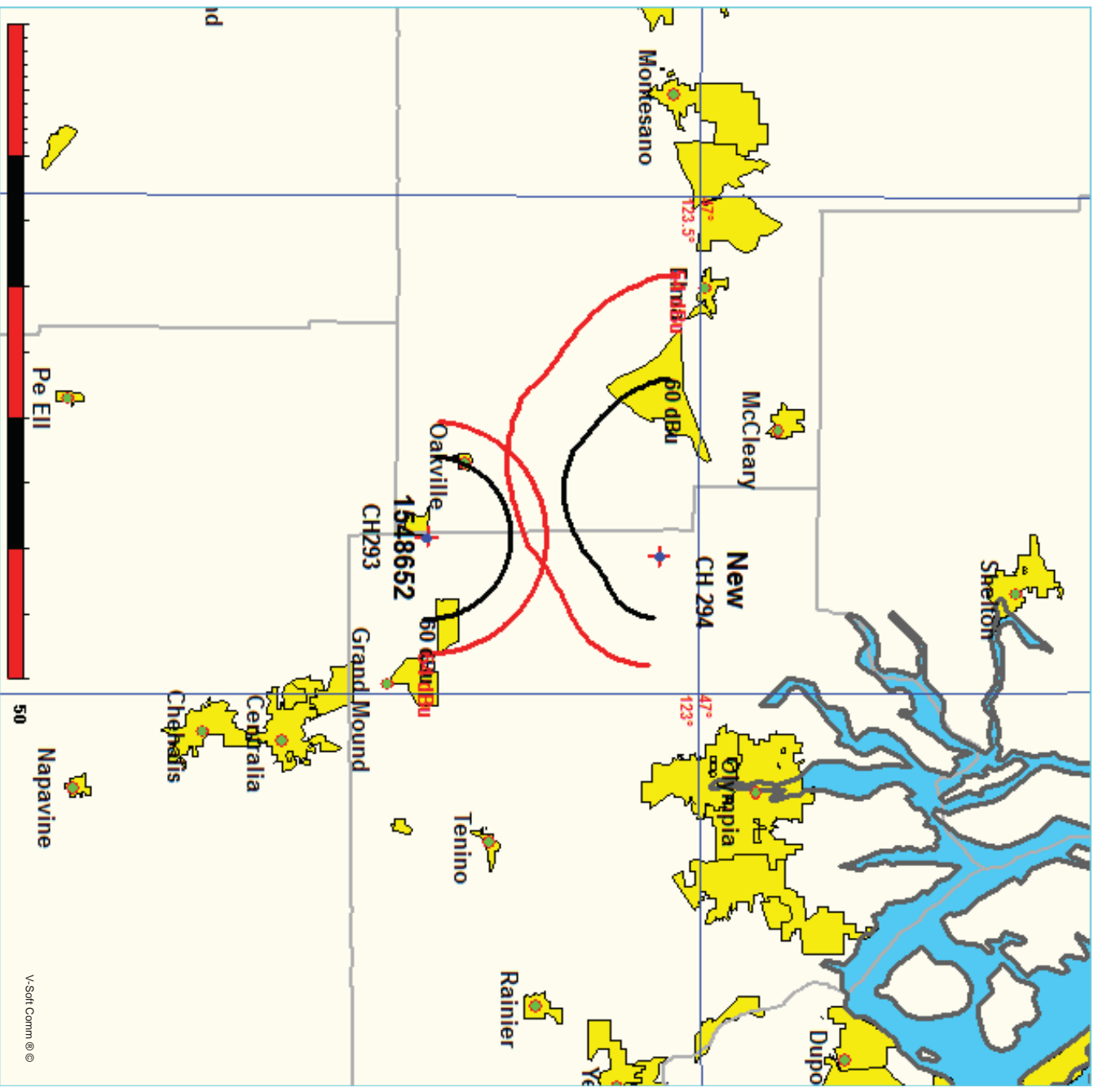


Exhibit 13.6(a) - Protection to BNFFT-20030310BNJ - Independence, WA

08-10-2013	Terrain Data: NGDC 30 SEC	FMOver Analysis
New	1548652	BNFFT20030310BNJ
<div> Channel = 292D Max ERP = 0.01 kW RCAMSL = 842 M N. Lat. 46 58 24.0 W. Lng. 123 08 11.0 Protected 60 dBu </div> <div> Channel = 293D Max ERP = 0.15 kW RCAMSL = 44 M N. Lat. 46 48 58.0 W. Lng. 123 09 24.0 Interfering 54 dBu </div>		

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
125.0	000.0005	0734.4	004.7	019.8	000.0358	-0179.5	015.7	37.91	
126.0	000.0005	0734.4	004.7	019.7	000.0360	-0180.5	015.7	38.00	
127.0	000.0005	0734.4	004.7	019.6	000.0362	-0181.4	015.6	38.10	
128.0	000.0005	0734.3	004.7	019.6	000.0364	-0182.5	015.5	38.19	
129.0	000.0005	0733.8	004.7	019.5	000.0367	-0183.7	015.4	38.29	
130.0	000.0005	0732.3	004.7	019.4	000.0370	-0185.0	015.4	38.39	
131.0	000.0005	0730.4	004.6	019.2	000.0374	-0186.8	015.3	38.49	
132.0	000.0005	0729.0	004.6	019.1	000.0378	-0188.6	015.2	38.60	
133.0	000.0005	0727.6	004.6	018.9	000.0382	-0190.5	015.1	38.71	
134.0	000.0005	0726.0	004.6	018.7	000.0386	-0192.5	015.1	38.82	
135.0	000.0005	0723.5	004.6	018.6	000.0391	-0194.6	015.0	38.93	
136.0	000.0005	0720.4	004.6	018.4	000.0396	-0196.6	014.9	39.05	
137.0	000.0005	0717.3	004.6	018.2	000.0401	-0198.7	014.9	39.18	
138.0	000.0005	0714.5	004.6	018.0	000.0406	-0200.6	014.8	39.30	
139.0	000.0005	0712.5	004.6	017.8	000.0411	-0202.6	014.8	39.43	
140.0	000.0005	0711.0	004.5	017.6	000.0417	-0204.4	014.7	39.56	
141.0	000.0005	0709.8	004.5	017.4	000.0422	-0206.2	014.6	39.69	
142.0	000.0005	0708.5	004.5	017.2	000.0428	-0207.8	014.6	39.82	
143.0	000.0005	0707.6	004.5	017.0	000.0434	-0209.3	014.5	39.95	
144.0	000.0005	0707.2	004.5	016.8	000.0440	-0210.5	014.5	40.08	
145.0	000.0005	0707.2	004.5	016.6	000.0447	-0211.4	014.4	40.21	
146.0	000.0005	0707.5	004.5	016.3	000.0453	-0212.1	014.3	40.34	
147.0	000.0005	0707.6	004.5	016.1	000.0460	-0212.7	014.3	40.47	
148.0	000.0005	0707.6	004.5	015.9	000.0467	-0213.1	014.2	40.60	
149.0	000.0005	0707.3	004.5	015.6	000.0474	-0213.5	014.2	40.73	
150.0	000.0005	0706.6	004.4	015.4	000.0481	-0213.7	014.1	40.85	
151.0	000.0005	0706.0	004.4	015.2	000.0488	-0213.6	014.1	40.98	
152.0	000.0005	0705.1	004.4	014.9	000.0495	-0213.5	014.0	41.11	
153.0	000.0005	0704.0	004.4	014.7	000.0502	-0213.2	014.0	41.24	
154.0	000.0005	0703.0	004.4	014.5	000.0510	-0212.9	013.9	41.37	
155.0	000.0005	0701.9	004.4	014.2	000.0517	-0212.4	013.9	41.49	
156.0	000.0005	0700.7	004.4	014.0	000.0525	-0212.0	013.8	41.62	
157.0	000.0005	0699.8	004.4	013.7	000.0533	-0211.5	013.8	41.75	
158.0	000.0005	0699.0	004.4	013.5	000.0541	-0211.0	013.7	41.87	
159.0	000.0005	0698.2	004.4	013.2	000.0550	-0210.5	013.7	42.00	
160.0	000.0005	0697.1	004.4	012.9	000.0559	-0210.0	013.6	42.12	

Exhibit 13.6(a) - Protection to BNFFT-20030310BNJ - Independence, WA

FMover Analysis

Page # 2

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
161.0	000.0005	0694.8	004.5	012.7	000.0566	-0209.6	013.6	42.26
162.0	000.0005	0691.4	004.5	012.5	000.0573	-0209.0	013.5	42.40
163.0	000.0005	0687.3	004.5	012.2	000.0581	-0208.2	013.5	42.54
164.0	000.0005	0682.7	004.5	012.0	000.0589	-0207.3	013.4	42.68
165.0	000.0005	0677.5	004.6	011.8	000.0597	-0206.2	013.3	42.82
166.0	000.0005	0672.2	004.6	011.5	000.0606	-0205.1	013.3	42.96
167.0	000.0005	0666.8	004.6	011.2	000.0615	-0203.7	013.2	43.10
168.0	000.0005	0661.9	004.6	010.9	000.0625	-0202.2	013.2	43.25
169.0	000.0005	0657.6	004.7	010.7	000.0634	-0200.1	013.1	43.39
170.0	000.0006	0653.1	004.7	010.4	000.0645	-0198.0	013.1	43.53
171.0	000.0006	0647.8	004.8	010.1	000.0653	-0196.2	013.0	43.70
172.0	000.0006	0641.8	004.8	009.8	000.0662	-0194.4	012.9	43.87
173.0	000.0006	0637.6	004.9	009.6	000.0669	-0192.7	012.8	44.03
174.0	000.0006	0636.1	004.9	009.3	000.0677	-0191.2	012.7	44.20
175.0	000.0006	0636.7	005.0	009.0	000.0686	-0190.1	012.7	44.37
176.0	000.0007	0638.7	005.1	008.6	000.0695	-0189.7	012.6	44.55
177.0	000.0007	0640.5	005.1	008.3	000.0704	-0189.4	012.5	44.72
178.0	000.0007	0642.1	005.2	008.0	000.0714	-0188.5	012.4	44.90
179.0	000.0007	0643.1	005.2	007.6	000.0724	-0187.2	012.3	45.07
180.0	000.0007	0644.2	005.3	007.2	000.0735	-0185.7	012.3	45.24
181.0	000.0008	0645.2	005.4	006.8	000.0746	-0183.6	012.2	45.46
182.0	000.0008	0646.8	005.5	006.4	000.0758	-0181.4	012.1	45.68
183.0	000.0008	0650.5	005.6	006.0	000.0770	-0179.2	012.0	45.90
184.0	000.0009	0656.2	005.7	005.5	000.0783	-0176.3	011.9	46.13
185.0	000.0009	0658.7	005.8	005.1	000.0798	-0173.8	011.8	46.35
186.0	000.0009	0655.9	005.8	004.6	000.0812	-0172.8	011.7	46.56
187.0	000.0010	0648.2	005.9	004.0	000.0828	-0173.9	011.6	46.75
188.0	000.0010	0638.7	006.0	003.5	000.0844	-0176.5	011.6	46.93
189.0	000.0010	0629.9	006.1	003.0	000.0861	-0180.8	011.5	47.11
190.0	000.0011	0619.3	006.1	002.4	000.0879	-0187.6	011.4	47.29
191.0	000.0011	0608.5	006.2	001.8	000.0898	-0196.8	011.4	47.51
192.0	000.0012	0598.6	006.3	001.2	000.0918	-0203.9	011.3	47.73
193.0	000.0012	0589.6	006.4	000.5	000.0938	-0211.2	011.2	47.94
194.0	000.0013	0583.7	006.5	359.8	000.0958	-0218.8	011.2	48.14
195.0	000.0013	0580.3	006.6	359.1	000.0972	-0229.9	011.1	48.32
196.0	000.0014	0578.5	006.7	358.4	000.0986	-0244.9	011.0	48.48
197.0	000.0014	0577.2	006.8	357.7	000.1000	-0259.7	011.0	48.64
198.0	000.0015	0574.6	006.9	356.9	000.1015	-0273.1	010.9	48.79
199.0	000.0015	0573.0	007.0	356.1	000.1031	-0282.6	010.9	48.92
200.0	000.0016	0575.0	007.1	355.3	000.1047	-0290.6	010.8	49.07
201.0	000.0017	0579.4	007.2	354.4	000.1065	-0298.0	010.8	49.24
202.0	000.0017	0582.3	007.4	353.5	000.1083	-0309.7	010.7	49.39
203.0	000.0018	0581.5	007.5	352.7	000.1101	-0321.7	010.7	49.51
204.0	000.0019	0578.8	007.6	351.8	000.1119	-0332.4	010.7	49.62
205.0	000.0020	0576.9	007.7	350.9	000.1138	-0343.6	010.7	49.72
206.0	000.0020	0577.6	007.8	349.9	000.1157	-0351.9	010.6	49.82
207.0	000.0021	0581.4	007.9	348.9	000.1164	-0354.6	010.6	49.87
208.0	000.0022	0586.5	008.0	347.9	000.1171	-0351.3	010.6	49.91
209.0	000.0023	0590.4	008.2	346.9	000.1178	-0342.4	010.6	49.95
210.0	000.0024	0592.3	008.3	345.9	000.1185	-0329.0	010.6	49.96
211.0	000.0024	0592.1	008.4	344.8	000.1192	-0315.5	010.6	49.95

Exhibit 13.6(a) - Protection to BNFFT-20030310BNJ - Independence, WA

FMOver Analysis

Page # 3

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
212.0	000.0025	0590.2	008.5	343.9	000.1199	-0305.3	010.7	49.93
213.0	000.0026	0587.3	008.6	342.9	000.1206	-0297.2	010.7	49.88
214.0	000.0027	0584.8	008.8	341.9	000.1212	-0290.3	010.8	49.82
215.0	000.0028	0583.6	008.9	341.0	000.1219	-0284.4	010.8	49.76
216.0	000.0029	0583.3	009.0	340.0	000.1226	-0280.1	010.9	49.68
217.0	000.0030	0583.7	009.1	339.0	000.1238	-0275.2	010.9	49.61
218.0	000.0031	0584.1	009.2	338.1	000.1251	-0268.8	011.0	49.53
219.0	000.0033	0583.3	009.3	337.2	000.1262	-0262.6	011.1	49.42
220.0	000.0034	0580.5	009.4	336.4	000.1273	-0257.0	011.2	49.29
221.0	000.0035	0576.4	009.5	335.6	000.1284	-0251.4	011.3	49.15
222.0	000.0036	0572.2	009.6	334.9	000.1293	-0246.2	011.4	49.00
223.0	000.0037	0568.9	009.7	334.2	000.1303	-0241.5	011.6	48.84
224.0	000.0038	0565.9	009.8	333.4	000.1313	-0236.9	011.7	48.67
225.0	000.0040	0563.1	009.9	332.8	000.1322	-0231.6	011.8	48.49
226.0	000.0041	0560.9	010.0	332.1	000.1331	-0225.3	012.0	48.30
227.0	000.0042	0559.2	010.0	331.5	000.1339	-0218.3	012.1	48.11
228.0	000.0044	0557.8	010.1	330.9	000.1348	-0211.1	012.2	47.92
229.0	000.0045	0556.3	010.2	330.3	000.1356	-0204.6	012.4	47.71
230.0	000.0046	0554.4	010.3	329.7	000.1362	-0198.9	012.6	47.50
231.0	000.0047	0551.5	010.4	329.3	000.1366	-0194.5	012.7	47.27
232.0	000.0049	0547.3	010.4	329.0	000.1370	-0190.9	012.9	47.03
233.0	000.0050	0541.1	010.5	328.7	000.1372	-0188.3	013.1	46.80
234.0	000.0051	0534.4	010.5	328.4	000.1375	-0186.0	013.3	46.56
235.0	000.0053	0527.7	010.6	328.2	000.1377	-0183.7	013.4	46.32
236.0	000.0054	0521.8	010.6	328.0	000.1379	-0181.3	013.6	46.08
237.0	000.0055	0517.7	010.7	327.7	000.1382	-0178.6	013.8	45.85
238.0	000.0057	0515.6	010.7	327.5	000.1384	-0175.5	014.0	45.62
239.0	000.0058	0515.3	010.8	327.2	000.1387	-0171.9	014.2	45.40
240.0	000.0059	0516.3	010.9	326.9	000.1390	-0168.2	014.4	45.17
241.0	000.0060	0518.2	011.0	326.6	000.1392	-0165.1	014.6	44.94
242.0	000.0062	0520.7	011.0	326.4	000.1395	-0162.1	014.8	44.72
243.0	000.0063	0523.5	011.1	326.1	000.1397	-0159.1	015.0	44.50
244.0	000.0064	0526.8	011.2	325.9	000.1399	-0156.1	015.2	44.33

Exhibit 13.6(a) - Protection to BNFFT-20030310BNJ - Independence, WA

08-10-2013 Terrain Data: NGDC 30 SEC FMOver Analysis

1548652 BNFFT20030310BNJ New

Channel = 293D
 Max ERP = 0.15 kW
 RCAMSL = 44 M
 N. Lat. 46 48 58.0
 W. Lng. 123 09 24.0
 Protected
 60 dBu

Channel = 292D
 Max ERP = 0.01 kW
 RCAMSL = 842 M
 N. Lat. 46 58 24.0
 W. Lng. 123 08 11.0
 Interfering
 54 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
305.0	000.1500	-0030.7	006.2	205.5	000.0020	0576.9	015.4	51.25	
306.0	000.1500	-0032.1	006.2	205.5	000.0020	0576.8	015.3	51.33	
307.0	000.1500	-0034.8	006.2	205.4	000.0020	0576.8	015.2	51.40	
308.0	000.1500	-0038.3	006.2	205.3	000.0020	0576.8	015.1	51.47	
309.0	000.1500	-0041.8	006.2	205.2	000.0020	0576.8	015.0	51.38	
310.0	000.1500	-0045.3	006.2	205.1	000.0020	0576.8	014.9	51.47	
311.0	000.1500	-0048.7	006.2	205.0	000.0020	0576.9	014.8	51.55	
312.0	000.1500	-0052.4	006.2	204.9	000.0019	0577.0	014.7	51.63	
313.0	000.1500	-0056.5	006.2	204.8	000.0019	0577.1	014.6	51.71	
314.0	000.1500	-0061.6	006.2	204.6	000.0019	0577.3	014.5	51.79	
315.0	000.1500	-0067.7	006.2	204.5	000.0019	0577.6	014.4	51.87	
316.0	000.1500	-0074.8	006.2	204.3	000.0019	0577.9	014.3	51.95	
317.0	000.1500	-0081.7	006.2	204.1	000.0019	0578.4	014.2	52.03	
318.0	000.1500	-0088.8	006.2	204.0	000.0019	0578.8	014.1	52.11	
319.0	000.1500	-0096.3	006.2	203.8	000.0019	0579.4	014.0	52.19	
320.0	000.1500	-0104.3	006.2	203.6	000.0019	0580.0	013.9	52.26	
321.0	000.1500	-0111.9	006.2	203.4	000.0018	0580.6	013.8	52.33	
322.0	000.1500	-0119.3	006.2	203.2	000.0018	0581.1	013.7	52.40	
323.0	000.1500	-0126.9	006.2	202.9	000.0018	0581.6	013.6	52.46	
324.0	000.1500	-0135.3	006.2	202.7	000.0018	0582.1	013.5	52.53	
325.0	000.1500	-0145.2	006.2	202.5	000.0018	0582.4	013.4	52.58	
326.0	000.1500	-0157.2	006.2	202.2	000.0018	0582.5	013.3	52.64	
327.0	000.1500	-0169.8	006.2	201.9	000.0017	0582.2	013.2	52.68	
328.0	000.1500	-0181.4	006.2	201.7	000.0017	0581.7	013.1	52.72	
329.0	000.1500	-0191.4	006.2	201.4	000.0017	0580.9	013.0	52.75	
330.0	000.1500	-0201.6	006.2	201.1	000.0017	0579.7	012.9	52.77	
331.0	000.1500	-0212.7	006.2	200.8	000.0017	0578.3	012.9	52.79	
332.0	000.1500	-0224.1	006.2	200.5	000.0016	0576.9	012.8	52.80	
333.0	000.1500	-0233.5	006.2	200.1	000.0016	0575.5	012.7	52.81	
334.0	000.1500	-0240.5	006.2	199.8	000.0016	0574.2	012.6	52.83	
335.0	000.1500	-0247.0	006.2	199.4	000.0016	0573.3	012.5	52.84	
336.0	000.1500	-0254.2	006.2	199.1	000.0015	0573.0	012.5	52.86	
337.0	000.1500	-0261.1	006.2	198.7	000.0015	0573.2	012.4	52.89	

FMOver Analysis

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Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
338.0	000.1500	-0268.2	006.2	198.3	000.0015	0573.8	012.3	52.91
339.0	000.1500	-0274.9	006.2	197.9	000.0015	0574.8	012.2	52.93
340.0	000.1500	-0280.0	006.2	197.5	000.0015	0575.9	012.2	52.96
341.0	000.1500	-0284.6	006.2	197.1	000.0014	0576.9	012.1	52.97
342.0	000.1500	-0290.8	006.2	196.7	000.0014	0577.6	012.1	52.98
343.0	000.1500	-0298.1	006.2	196.3	000.0014	0578.1	012.0	52.98
344.0	000.1500	-0306.7	006.2	195.8	000.0014	0578.8	011.9	52.98
345.0	000.1500	-0317.4	006.2	195.4	000.0013	0579.5	011.9	52.97
346.0	000.1500	-0330.9	006.2	194.9	000.0013	0580.4	011.8	52.96
347.0	000.1500	-0343.8	006.2	194.5	000.0013	0581.7	011.8	52.95
348.0	000.1500	-0351.8	006.2	194.0	000.0013	0583.7	011.7	52.94
349.0	000.1500	-0354.7	006.2	193.5	000.0012	0586.3	011.7	52.93
350.0	000.1500	-0351.4	006.2	193.0	000.0012	0589.4	011.6	52.92
351.0	000.1500	-0342.0	006.2	192.5	000.0012	0593.5	011.6	52.92
352.0	000.1500	-0329.4	006.2	192.0	000.0012	0598.3	011.6	52.91
353.0	000.1500	-0317.2	006.2	191.5	000.0011	0603.3	011.5	52.90
354.0	000.1500	-0303.3	006.2	191.0	000.0011	0608.5	011.5	52.89
355.0	000.1500	-0292.8	006.2	190.5	000.0011	0614.0	011.5	52.86
356.0	000.1500	-0284.1	006.2	190.0	000.0011	0619.8	011.4	52.84
357.0	000.1500	-0271.9	006.2	189.4	000.0010	0625.6	011.4	52.83
358.0	000.1500	-0253.1	006.2	188.9	000.0010	0630.9	011.4	52.82
359.0	000.1500	-0232.7	006.2	188.3	000.0010	0635.6	011.4	52.79
000.0	000.1500	-0217.0	006.2	187.8	000.0010	0640.5	011.3	52.76
001.0	000.1500	-0205.8	006.2	187.3	000.0010	0645.6	011.3	52.73
002.0	000.1500	-0193.8	006.2	186.7	000.0009	0650.9	011.3	52.69
003.0	000.1500	-0180.5	006.2	186.2	000.0009	0655.0	011.3	52.64
004.0	000.1500	-0174.1	006.2	185.6	000.0009	0657.4	011.3	52.58
005.0	000.1500	-0173.6	006.2	185.1	000.0009	0658.6	011.3	52.50
006.0	000.1500	-0179.3	006.2	184.5	000.0009	0658.4	011.3	52.41
007.0	000.1500	-0184.6	006.2	184.0	000.0009	0656.0	011.3	52.30
008.0	000.1500	-0188.6	006.2	183.4	000.0008	0652.6	011.3	52.18
009.0	000.1500	-0190.3	006.2	182.9	000.0008	0649.8	011.3	52.06
010.0	000.1500	-0195.4	006.2	182.3	000.0008	0647.5	011.3	51.94
011.0	000.1500	-0202.5	006.2	181.8	000.0008	0646.1	011.4	51.82
012.0	000.1500	-0207.3	006.2	181.2	000.0008	0645.5	011.4	51.70
013.0	000.1500	-0210.2	006.2	180.7	000.0008	0644.9	011.4	51.58
014.0	000.1500	-0212.0	006.2	180.2	000.0007	0644.4	011.4	51.45
015.0	000.1500	-0213.5	006.2	179.6	000.0007	0643.8	011.5	51.35
016.0	000.1500	-0212.9	006.2	179.1	000.0007	0643.3	011.5	51.25
017.0	000.1500	-0209.3	006.2	178.6	000.0007	0642.5	011.5	51.15
018.0	000.1500	-0200.8	006.2	178.1	000.0007	0642.1	011.6	51.05
019.0	000.1500	-0189.3	006.2	177.6	000.0007	0641.4	011.6	50.95
020.0	000.1500	-0177.4	006.2	177.1	000.0007	0640.7	011.6	50.84
021.0	000.1500	-0166.0	006.2	176.6	000.0007	0640.0	011.7	50.73
022.0	000.1500	-0154.7	006.2	176.1	000.0007	0639.0	011.7	50.62
023.0	000.1500	-0143.9	006.2	175.7	000.0006	0637.8	011.8	50.50
024.0	000.1500	-0133.4	006.2	175.2	000.0006	0636.9	011.8	50.38
025.0	000.1500	-0123.8	006.2	174.7	000.0006	0636.5	011.9	50.27
026.0	000.1500	-0116.0	006.2	174.3	000.0006	0636.2	011.9	50.15
027.0	000.1500	-0109.7	006.2	173.8	000.0006	0636.0	012.0	50.03
028.0	000.1500	-0104.1	006.2	173.4	000.0006	0636.5	012.1	49.92

Exhibit 13.6(a) - Protection to BNFFT-20030310BNJ - Independence, WA

FMOver Analysis

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Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
029.0	000.1500	-0098.9	006.2	173.0	000.0006	0637.6	012.1	49.81
030.0	000.1500	-0093.5	006.2	172.6	000.0006	0639.0	012.2	49.70
031.0	000.1500	-0087.9	006.2	172.2	000.0006	0640.9	012.2	49.60
032.0	000.1500	-0081.5	006.2	171.8	000.0006	0643.0	012.3	49.49
033.0	000.1500	-0074.2	006.2	171.4	000.0006	0645.3	012.4	49.39
034.0	000.1500	-0066.8	006.2	171.0	000.0006	0647.6	012.5	49.29
035.0	000.1500	-0059.6	006.2	170.7	000.0006	0649.7	012.5	49.18
036.0	000.1500	-0052.8	006.2	170.3	000.0006	0651.6	012.6	49.08
037.0	000.1500	-0046.7	006.2	170.0	000.0006	0653.2	012.7	48.97
038.0	000.1500	-0041.0	006.2	169.7	000.0005	0654.7	012.8	48.88
039.0	000.1500	-0035.5	006.2	169.3	000.0005	0656.1	012.9	48.80
040.0	000.1500	-0030.5	006.2	169.0	000.0005	0657.5	012.9	48.71
041.0	000.1500	-0026.1	006.2	168.7	000.0005	0658.7	013.0	48.62
042.0	000.1500	-0022.3	006.2	168.4	000.0005	0660.0	013.1	48.53
043.0	000.1500	-0018.7	006.2	168.2	000.0005	0661.2	013.2	48.44
044.0	000.1500	-0015.3	006.2	167.9	000.0005	0662.3	013.3	48.35
045.0	000.1500	-0012.2	006.2	167.7	000.0005	0663.5	013.4	48.26
046.0	000.1500	-0009.5	006.2	167.4	000.0005	0664.7	013.5	48.16
047.0	000.1500	-0006.8	006.2	167.2	000.0005	0665.9	013.6	48.07
048.0	000.1500	-0004.4	006.2	166.9	000.0005	0667.2	013.7	47.98
049.0	000.1500	-0002.4	006.2	166.7	000.0005	0668.3	013.8	47.89
050.0	000.1500	-0000.6	006.2	166.5	000.0005	0669.4	013.8	47.80
051.0	000.1500	0001.0	006.2	166.3	000.0005	0670.4	013.9	47.71
052.0	000.1500	0002.3	006.2	166.1	000.0005	0671.4	014.0	47.62
053.0	000.1500	0003.2	006.2	166.0	000.0005	0672.4	014.1	47.52
054.0	000.1500	0003.7	006.2	165.8	000.0005	0673.3	014.2	47.43
055.0	000.1500	0003.9	006.2	165.6	000.0005	0674.1	014.3	47.34
056.0	000.1500	0003.9	006.2	165.5	000.0005	0674.9	014.5	47.25
057.0	000.1500	0003.0	006.2	165.4	000.0005	0675.7	014.6	47.15
058.0	000.1500	0000.9	006.2	165.2	000.0005	0676.3	014.7	47.06
059.0	000.1500	-0002.0	006.2	165.1	000.0005	0677.0	014.8	46.97
060.0	000.1500	-0005.0	006.2	165.0	000.0005	0677.6	014.9	46.88
061.0	000.1500	-0007.6	006.2	164.9	000.0005	0678.1	015.0	46.79
062.0	000.1500	-0009.9	006.2	164.8	000.0005	0678.7	015.1	46.99
063.0	000.1500	-0012.3	006.2	164.7	000.0005	0679.1	015.2	46.90
064.0	000.1500	-0014.8	006.2	164.6	000.0005	0679.5	015.3	46.82

Exhibit 13.6(b)

Northwest Rock N Roll Preservation Society

Protection to BNFT-20130808AHZ - Independence, WA

FMCommander Single Allocation Study - 08-10-2013 - NGDC 30 SEC
New's Overlaps (In= 2.86 km, Out= 1.34 km)

New CH 292 D DA

Lat= 46 58 24.0, Lng= 123 08 11.0
0.01 kW 638.7 M HAAT, 842 M COR
Prot.= 60 dBu, Intef.= 54 dBu

1568028 CH 293 D BNFT20130808AHZ

Lat= 46 48 58.0, Lng= 123 09 24.0
0.15 kW 0 M HAAT, 44 M COR
Prot.= 60 dBu, Intef.= 54 dBu

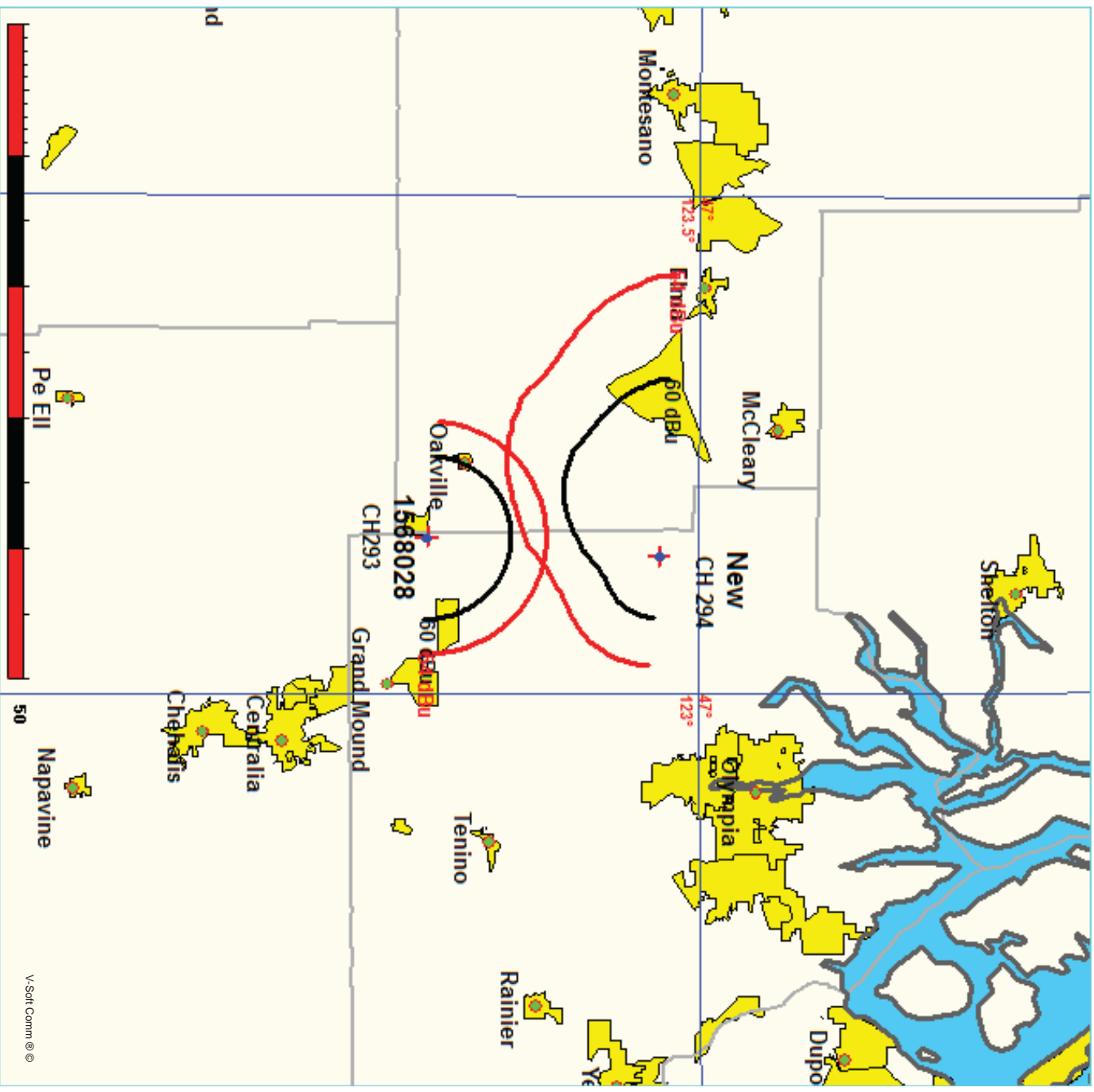


Exhibit 13.6(b) - Protection to BNFT-20130808AHZ - Independence, WA

08-10-2013 Terrain Data: NGDC 30 SEC FMOver Analysis

New 1568028 BNFT20130808AHZ

Channel = 292D
 Max ERP = 0.01 kW
 RCAMSL = 842 M
 N. Lat. 46 58 24.0
 W. Lng. 123 08 11.0
 Protected
 60 dBu

Channel = 293D
 Max ERP = 0.15 kW
 RCAMSL = 44 M
 N. Lat. 46 48 58.0
 W. Lng. 123 09 24.0
 Interfering
 54 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
125.0	000.0005	0734.4	004.7	019.8	000.1500	-0179.5	015.7	44.14	
126.0	000.0005	0734.4	004.7	019.7	000.1500	-0180.5	015.7	44.20	
127.0	000.0005	0734.4	004.7	019.6	000.1500	-0181.4	015.6	44.27	
128.0	000.0005	0734.3	004.7	019.6	000.1500	-0182.5	015.5	44.34	
129.0	000.0005	0733.8	004.7	019.5	000.1500	-0183.7	015.4	44.40	
130.0	000.0005	0732.3	004.7	019.4	000.1500	-0185.0	015.4	44.47	
131.0	000.0005	0730.4	004.6	019.2	000.1500	-0186.8	015.3	44.53	
132.0	000.0005	0729.0	004.6	019.1	000.1500	-0188.6	015.2	44.59	
133.0	000.0005	0727.6	004.6	018.9	000.1500	-0190.5	015.1	44.65	
134.0	000.0005	0726.0	004.6	018.7	000.1500	-0192.5	015.1	44.71	
135.0	000.0005	0723.5	004.6	018.6	000.1500	-0194.6	015.0	44.77	
136.0	000.0005	0720.4	004.6	018.4	000.1500	-0196.6	014.9	44.84	
137.0	000.0005	0717.3	004.6	018.2	000.1500	-0198.7	014.9	44.91	
138.0	000.0005	0714.5	004.6	018.0	000.1500	-0200.6	014.8	44.98	
139.0	000.0005	0712.5	004.6	017.8	000.1500	-0202.6	014.8	45.05	
140.0	000.0005	0711.0	004.5	017.6	000.1500	-0204.4	014.7	45.13	
141.0	000.0005	0709.8	004.5	017.4	000.1500	-0206.2	014.6	45.20	
142.0	000.0005	0708.5	004.5	017.2	000.1500	-0207.8	014.6	45.27	
143.0	000.0005	0707.6	004.5	017.0	000.1500	-0209.3	014.5	45.33	
144.0	000.0005	0707.2	004.5	016.8	000.1500	-0210.5	014.5	45.40	
145.0	000.0005	0707.2	004.5	016.6	000.1500	-0211.4	014.4	45.47	
146.0	000.0005	0707.5	004.5	016.3	000.1500	-0212.1	014.3	45.54	
147.0	000.0005	0707.6	004.5	016.1	000.1500	-0212.7	014.3	45.60	
148.0	000.0005	0707.6	004.5	015.9	000.1500	-0213.1	014.2	45.67	
149.0	000.0005	0707.3	004.5	015.6	000.1500	-0213.5	014.2	45.73	
150.0	000.0005	0706.6	004.4	015.4	000.1500	-0213.7	014.1	45.79	
151.0	000.0005	0706.0	004.4	015.2	000.1500	-0213.6	014.1	45.86	
152.0	000.0005	0705.1	004.4	014.9	000.1500	-0213.5	014.0	45.93	
153.0	000.0005	0704.0	004.4	014.7	000.1500	-0213.2	014.0	45.99	
154.0	000.0005	0703.0	004.4	014.5	000.1500	-0212.9	013.9	46.06	
155.0	000.0005	0701.9	004.4	014.2	000.1500	-0212.4	013.9	46.12	
156.0	000.0005	0700.7	004.4	014.0	000.1500	-0212.0	013.8	46.18	
157.0	000.0005	0699.8	004.4	013.7	000.1500	-0211.5	013.8	46.24	
158.0	000.0005	0699.0	004.4	013.5	000.1500	-0211.0	013.7	46.30	
159.0	000.0005	0698.2	004.4	013.2	000.1500	-0210.5	013.7	46.36	
160.0	000.0005	0697.1	004.4	012.9	000.1500	-0210.0	013.6	46.41	

FMOver Analysis

Page # 2

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
161.0	000.0005	0694.8	004.5	012.7	000.1500	-0209.6	013.6	46.49
162.0	000.0005	0691.4	004.5	012.5	000.1500	-0209.0	013.5	46.58
163.0	000.0005	0687.3	004.5	012.2	000.1500	-0208.2	013.5	46.66
164.0	000.0005	0682.7	004.5	012.0	000.1500	-0207.3	013.4	46.74
165.0	000.0005	0677.5	004.6	011.8	000.1500	-0206.2	013.3	46.82
166.0	000.0005	0672.2	004.6	011.5	000.1500	-0205.1	013.3	46.90
167.0	000.0005	0666.8	004.6	011.2	000.1500	-0203.7	013.2	46.97
168.0	000.0005	0661.9	004.6	010.9	000.1500	-0202.2	013.2	47.05
169.0	000.0005	0657.6	004.7	010.7	000.1500	-0200.1	013.1	47.12
170.0	000.0006	0653.1	004.7	010.4	000.1500	-0198.0	013.1	47.19
171.0	000.0006	0647.8	004.8	010.1	000.1500	-0196.2	013.0	47.31
172.0	000.0006	0641.8	004.8	009.8	000.1500	-0194.4	012.9	47.42
173.0	000.0006	0637.6	004.9	009.6	000.1500	-0192.7	012.8	47.54
174.0	000.0006	0636.1	004.9	009.3	000.1500	-0191.2	012.7	47.65
175.0	000.0006	0636.7	005.0	009.0	000.1500	-0190.1	012.7	47.77
176.0	000.0007	0638.7	005.1	008.6	000.1500	-0189.7	012.6	47.89
177.0	000.0007	0640.5	005.1	008.3	000.1500	-0189.4	012.5	48.01
178.0	000.0007	0642.1	005.2	008.0	000.1500	-0188.5	012.4	48.12
179.0	000.0007	0643.1	005.2	007.6	000.1500	-0187.2	012.3	48.23
180.0	000.0007	0644.2	005.3	007.2	000.1500	-0185.7	012.3	48.34
181.0	000.0008	0645.2	005.4	006.8	000.1500	-0183.6	012.2	48.49
182.0	000.0008	0646.8	005.5	006.4	000.1500	-0181.4	012.1	48.64
183.0	000.0008	0650.5	005.6	006.0	000.1500	-0179.2	012.0	48.80
184.0	000.0009	0656.2	005.7	005.5	000.1500	-0176.3	011.9	48.95
185.0	000.0009	0658.7	005.8	005.1	000.1500	-0173.8	011.8	49.09
186.0	000.0009	0655.9	005.8	004.6	000.1500	-0172.8	011.7	49.22
187.0	000.0010	0648.2	005.9	004.0	000.1500	-0173.9	011.6	49.33
188.0	000.0010	0638.7	006.0	003.5	000.1500	-0176.5	011.6	49.43
189.0	000.0010	0629.9	006.1	003.0	000.1500	-0180.8	011.5	49.53
190.0	000.0011	0619.3	006.1	002.4	000.1500	-0187.6	011.4	49.61
191.0	000.0011	0608.5	006.2	001.8	000.1500	-0196.8	011.4	49.74
192.0	000.0012	0598.6	006.3	001.2	000.1500	-0203.9	011.3	49.86
193.0	000.0012	0589.6	006.4	000.5	000.1500	-0211.2	011.2	49.98
194.0	000.0013	0583.7	006.5	359.8	000.1500	-0218.8	011.2	50.09
195.0	000.0013	0580.3	006.6	359.1	000.1500	-0229.9	011.1	50.20
196.0	000.0014	0578.5	006.7	358.4	000.1500	-0244.9	011.0	50.31
197.0	000.0014	0577.2	006.8	357.7	000.1500	-0259.7	011.0	50.40
198.0	000.0015	0574.6	006.9	356.9	000.1500	-0273.1	010.9	50.48
199.0	000.0015	0573.0	007.0	356.1	000.1500	-0282.6	010.9	50.55
200.0	000.0016	0575.0	007.1	355.3	000.1500	-0290.6	010.8	50.63
201.0	000.0017	0579.4	007.2	354.4	000.1500	-0298.0	010.8	50.73
202.0	000.0017	0582.3	007.4	353.5	000.1500	-0309.7	010.7	50.80
203.0	000.0018	0581.5	007.5	352.7	000.1500	-0321.7	010.7	50.85
204.0	000.0019	0578.8	007.6	351.8	000.1500	-0332.4	010.7	50.89
205.0	000.0020	0576.9	007.7	350.9	000.1500	-0343.6	010.7	50.92
206.0	000.0020	0577.6	007.8	349.9	000.1500	-0351.9	010.6	50.94
207.0	000.0021	0581.4	007.9	348.9	000.1500	-0354.6	010.6	50.97
208.0	000.0022	0586.5	008.0	347.9	000.1500	-0351.3	010.6	50.99
209.0	000.0023	0590.4	008.2	346.9	000.1500	-0342.4	010.6	51.00
210.0	000.0024	0592.3	008.3	345.9	000.1500	-0329.0	010.6	50.98
211.0	000.0024	0592.1	008.4	344.8	000.1500	-0315.5	010.6	50.95

Exhibit 13.6(b) - Protection to BNFFT-20130808AHZ - Independence, WA

FMOver Analysis

Page # 3

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
212.0	000.0025	0590.2	008.5	343.9	000.1500	-0305.3	010.7	50.90
213.0	000.0026	0587.3	008.6	342.9	000.1500	-0297.2	010.7	50.83
214.0	000.0027	0584.8	008.8	341.9	000.1500	-0290.3	010.8	50.75
215.0	000.0028	0583.6	008.9	341.0	000.1500	-0284.4	010.8	50.66
216.0	000.0029	0583.3	009.0	340.0	000.1500	-0280.1	010.9	50.55
217.0	000.0030	0583.7	009.1	339.0	000.1500	-0275.2	010.9	50.44
218.0	000.0031	0584.1	009.2	338.1	000.1500	-0268.8	011.0	50.31
219.0	000.0033	0583.3	009.3	337.2	000.1500	-0262.6	011.1	50.17
220.0	000.0034	0580.5	009.4	336.4	000.1500	-0257.0	011.2	50.00
221.0	000.0035	0576.4	009.5	335.6	000.1500	-0251.4	011.3	49.83
222.0	000.0036	0572.2	009.6	334.9	000.1500	-0246.2	011.4	49.64
223.0	000.0037	0568.9	009.7	334.2	000.1500	-0241.5	011.6	49.45
224.0	000.0038	0565.9	009.8	333.4	000.1500	-0236.9	011.7	49.25
225.0	000.0040	0563.1	009.9	332.8	000.1500	-0231.6	011.8	49.04
226.0	000.0041	0560.9	010.0	332.1	000.1500	-0225.3	012.0	48.82
227.0	000.0042	0559.2	010.0	331.5	000.1500	-0218.3	012.1	48.60
228.0	000.0044	0557.8	010.1	330.9	000.1500	-0211.1	012.2	48.38
229.0	000.0045	0556.3	010.2	330.3	000.1500	-0204.6	012.4	48.15
230.0	000.0046	0554.4	010.3	329.7	000.1500	-0198.9	012.6	47.92
231.0	000.0047	0551.5	010.4	329.3	000.1500	-0194.5	012.7	47.67
232.0	000.0049	0547.3	010.4	329.0	000.1500	-0190.9	012.9	47.43
233.0	000.0050	0541.1	010.5	328.7	000.1500	-0188.3	013.1	47.18
234.0	000.0051	0534.4	010.5	328.4	000.1500	-0186.0	013.3	46.94
235.0	000.0053	0527.7	010.6	328.2	000.1500	-0183.7	013.4	46.69
236.0	000.0054	0521.8	010.6	328.0	000.1500	-0181.3	013.6	46.45
237.0	000.0055	0517.7	010.7	327.7	000.1500	-0178.6	013.8	46.21
238.0	000.0057	0515.6	010.7	327.5	000.1500	-0175.5	014.0	45.97
239.0	000.0058	0515.3	010.8	327.2	000.1500	-0171.9	014.2	45.74
240.0	000.0059	0516.3	010.9	326.9	000.1500	-0168.2	014.4	45.50
241.0	000.0060	0518.2	011.0	326.6	000.1500	-0165.1	014.6	45.27
242.0	000.0062	0520.7	011.0	326.4	000.1500	-0162.1	014.8	45.04
243.0	000.0063	0523.5	011.1	326.1	000.1500	-0159.1	015.0	44.81
244.0	000.0064	0526.8	011.2	325.9	000.1500	-0156.1	015.2	44.63

Exhibit 13.6(b) - Protection to BNFT-20130808AHZ - Independence, WA

08-10-2013 Terrain Data: NGDC 30 SEC FMOver Analysis

1568028 BNFT20130808AHZ

New

Channel = 293D
 Max ERP = 0.15 kW
 RCAMSL = 44 M
 N. Lat. 46 48 58.0
 W. Lng. 123 09 24.0
 Protected
 60 dBu

Channel = 292D
 Max ERP = 0.01 kW
 RCAMSL = 842 M
 N. Lat. 46 58 24.0
 W. Lng. 123 08 11.0
 Interfering
 54 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
305.0	000.1500	-0030.7	006.2	205.5	000.0020	0576.9	015.4	51.25	
306.0	000.1500	-0032.1	006.2	205.5	000.0020	0576.8	015.3	51.33	
307.0	000.1500	-0034.8	006.2	205.4	000.0020	0576.8	015.2	51.40	
308.0	000.1500	-0038.3	006.2	205.3	000.0020	0576.8	015.1	51.47	
309.0	000.1500	-0041.8	006.2	205.2	000.0020	0576.8	015.0	51.38	
310.0	000.1500	-0045.3	006.2	205.1	000.0020	0576.8	014.9	51.47	
311.0	000.1500	-0048.7	006.2	205.0	000.0020	0576.9	014.8	51.55	
312.0	000.1500	-0052.4	006.2	204.9	000.0019	0577.0	014.7	51.63	
313.0	000.1500	-0056.5	006.2	204.8	000.0019	0577.1	014.6	51.71	
314.0	000.1500	-0061.6	006.2	204.6	000.0019	0577.3	014.5	51.79	
315.0	000.1500	-0067.7	006.2	204.5	000.0019	0577.6	014.4	51.87	
316.0	000.1500	-0074.8	006.2	204.3	000.0019	0577.9	014.3	51.95	
317.0	000.1500	-0081.7	006.2	204.1	000.0019	0578.4	014.2	52.03	
318.0	000.1500	-0088.8	006.2	204.0	000.0019	0578.8	014.1	52.11	
319.0	000.1500	-0096.3	006.2	203.8	000.0019	0579.4	014.0	52.19	
320.0	000.1500	-0104.3	006.2	203.6	000.0019	0580.0	013.9	52.26	
321.0	000.1500	-0111.9	006.2	203.4	000.0018	0580.6	013.8	52.33	
322.0	000.1500	-0119.3	006.2	203.2	000.0018	0581.1	013.7	52.40	
323.0	000.1500	-0126.9	006.2	202.9	000.0018	0581.6	013.6	52.46	
324.0	000.1500	-0135.3	006.2	202.7	000.0018	0582.1	013.5	52.53	
325.0	000.1500	-0145.2	006.2	202.5	000.0018	0582.4	013.4	52.58	
326.0	000.1500	-0157.2	006.2	202.2	000.0018	0582.5	013.3	52.64	
327.0	000.1500	-0169.8	006.2	201.9	000.0017	0582.2	013.2	52.68	
328.0	000.1500	-0181.4	006.2	201.7	000.0017	0581.7	013.1	52.72	
329.0	000.1500	-0191.4	006.2	201.4	000.0017	0580.9	013.0	52.75	
330.0	000.1500	-0201.6	006.2	201.1	000.0017	0579.7	012.9	52.77	
331.0	000.1500	-0212.7	006.2	200.8	000.0017	0578.3	012.9	52.79	
332.0	000.1500	-0224.1	006.2	200.5	000.0016	0576.9	012.8	52.80	
333.0	000.1500	-0233.5	006.2	200.1	000.0016	0575.5	012.7	52.81	
334.0	000.1500	-0240.5	006.2	199.8	000.0016	0574.2	012.6	52.83	
335.0	000.1500	-0247.0	006.2	199.4	000.0016	0573.3	012.5	52.84	
336.0	000.1500	-0254.2	006.2	199.1	000.0015	0573.0	012.5	52.86	
337.0	000.1500	-0261.1	006.2	198.7	000.0015	0573.2	012.4	52.89	

FMOver Analysis

Page # 5

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
338.0	000.1500	-0268.2	006.2	198.3	000.0015	0573.8	012.3	52.91
339.0	000.1500	-0274.9	006.2	197.9	000.0015	0574.8	012.2	52.93
340.0	000.1500	-0280.0	006.2	197.5	000.0015	0575.9	012.2	52.96
341.0	000.1500	-0284.6	006.2	197.1	000.0014	0576.9	012.1	52.97
342.0	000.1500	-0290.8	006.2	196.7	000.0014	0577.6	012.1	52.98
343.0	000.1500	-0298.1	006.2	196.3	000.0014	0578.1	012.0	52.98
344.0	000.1500	-0306.7	006.2	195.8	000.0014	0578.8	011.9	52.98
345.0	000.1500	-0317.4	006.2	195.4	000.0013	0579.5	011.9	52.97
346.0	000.1500	-0330.9	006.2	194.9	000.0013	0580.4	011.8	52.96
347.0	000.1500	-0343.8	006.2	194.5	000.0013	0581.7	011.8	52.95
348.0	000.1500	-0351.8	006.2	194.0	000.0013	0583.7	011.7	52.94
349.0	000.1500	-0354.7	006.2	193.5	000.0012	0586.3	011.7	52.93
350.0	000.1500	-0351.4	006.2	193.0	000.0012	0589.4	011.6	52.92
351.0	000.1500	-0342.0	006.2	192.5	000.0012	0593.5	011.6	52.92
352.0	000.1500	-0329.4	006.2	192.0	000.0012	0598.3	011.6	52.91
353.0	000.1500	-0317.2	006.2	191.5	000.0011	0603.3	011.5	52.90
354.0	000.1500	-0303.3	006.2	191.0	000.0011	0608.5	011.5	52.89
355.0	000.1500	-0292.8	006.2	190.5	000.0011	0614.0	011.5	52.86
356.0	000.1500	-0284.1	006.2	190.0	000.0011	0619.8	011.4	52.84
357.0	000.1500	-0271.9	006.2	189.4	000.0010	0625.6	011.4	52.83
358.0	000.1500	-0253.1	006.2	188.9	000.0010	0630.9	011.4	52.82
359.0	000.1500	-0232.7	006.2	188.3	000.0010	0635.6	011.4	52.79
000.0	000.1500	-0217.0	006.2	187.8	000.0010	0640.5	011.3	52.76
001.0	000.1500	-0205.8	006.2	187.3	000.0010	0645.6	011.3	52.73
002.0	000.1500	-0193.8	006.2	186.7	000.0009	0650.9	011.3	52.69
003.0	000.1500	-0180.5	006.2	186.2	000.0009	0655.0	011.3	52.64
004.0	000.1500	-0174.1	006.2	185.6	000.0009	0657.4	011.3	52.58
005.0	000.1500	-0173.6	006.2	185.1	000.0009	0658.6	011.3	52.50
006.0	000.1500	-0179.3	006.2	184.5	000.0009	0658.4	011.3	52.41
007.0	000.1500	-0184.6	006.2	184.0	000.0009	0656.0	011.3	52.30
008.0	000.1500	-0188.6	006.2	183.4	000.0008	0652.6	011.3	52.18
009.0	000.1500	-0190.3	006.2	182.9	000.0008	0649.8	011.3	52.06
010.0	000.1500	-0195.4	006.2	182.3	000.0008	0647.5	011.3	51.94
011.0	000.1500	-0202.5	006.2	181.8	000.0008	0646.1	011.4	51.82
012.0	000.1500	-0207.3	006.2	181.2	000.0008	0645.5	011.4	51.70
013.0	000.1500	-0210.2	006.2	180.7	000.0008	0644.9	011.4	51.58
014.0	000.1500	-0212.0	006.2	180.2	000.0007	0644.4	011.4	51.45
015.0	000.1500	-0213.5	006.2	179.6	000.0007	0643.8	011.5	51.35
016.0	000.1500	-0212.9	006.2	179.1	000.0007	0643.3	011.5	51.25
017.0	000.1500	-0209.3	006.2	178.6	000.0007	0642.5	011.5	51.15
018.0	000.1500	-0200.8	006.2	178.1	000.0007	0642.1	011.6	51.05
019.0	000.1500	-0189.3	006.2	177.6	000.0007	0641.4	011.6	50.95
020.0	000.1500	-0177.4	006.2	177.1	000.0007	0640.7	011.6	50.84
021.0	000.1500	-0166.0	006.2	176.6	000.0007	0640.0	011.7	50.73
022.0	000.1500	-0154.7	006.2	176.1	000.0007	0639.0	011.7	50.62
023.0	000.1500	-0143.9	006.2	175.7	000.0006	0637.8	011.8	50.50
024.0	000.1500	-0133.4	006.2	175.2	000.0006	0636.9	011.8	50.38
025.0	000.1500	-0123.8	006.2	174.7	000.0006	0636.5	011.9	50.27
026.0	000.1500	-0116.0	006.2	174.3	000.0006	0636.2	011.9	50.15
027.0	000.1500	-0109.7	006.2	173.8	000.0006	0636.0	012.0	50.03
028.0	000.1500	-0104.1	006.2	173.4	000.0006	0636.5	012.1	49.92

Exhibit 13.6(b) - Protection to BNPT-20130808AHZ - Independence, WA

FMOver Analysis

Page # 6

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
029.0	000.1500	-0098.9	006.2	173.0	000.0006	0637.6	012.1	49.81
030.0	000.1500	-0093.5	006.2	172.6	000.0006	0639.0	012.2	49.70
031.0	000.1500	-0087.9	006.2	172.2	000.0006	0640.9	012.2	49.60
032.0	000.1500	-0081.5	006.2	171.8	000.0006	0643.0	012.3	49.49
033.0	000.1500	-0074.2	006.2	171.4	000.0006	0645.3	012.4	49.39
034.0	000.1500	-0066.8	006.2	171.0	000.0006	0647.6	012.5	49.29
035.0	000.1500	-0059.6	006.2	170.7	000.0006	0649.7	012.5	49.18
036.0	000.1500	-0052.8	006.2	170.3	000.0006	0651.6	012.6	49.08
037.0	000.1500	-0046.7	006.2	170.0	000.0006	0653.2	012.7	48.97
038.0	000.1500	-0041.0	006.2	169.7	000.0005	0654.7	012.8	48.88
039.0	000.1500	-0035.5	006.2	169.3	000.0005	0656.1	012.9	48.80
040.0	000.1500	-0030.5	006.2	169.0	000.0005	0657.5	012.9	48.71
041.0	000.1500	-0026.1	006.2	168.7	000.0005	0658.7	013.0	48.62
042.0	000.1500	-0022.3	006.2	168.4	000.0005	0660.0	013.1	48.53
043.0	000.1500	-0018.7	006.2	168.2	000.0005	0661.2	013.2	48.44
044.0	000.1500	-0015.3	006.2	167.9	000.0005	0662.3	013.3	48.35
045.0	000.1500	-0012.2	006.2	167.7	000.0005	0663.5	013.4	48.26
046.0	000.1500	-0009.5	006.2	167.4	000.0005	0664.7	013.5	48.16
047.0	000.1500	-0006.8	006.2	167.2	000.0005	0665.9	013.6	48.07
048.0	000.1500	-0004.4	006.2	166.9	000.0005	0667.2	013.7	47.98
049.0	000.1500	-0002.4	006.2	166.7	000.0005	0668.3	013.8	47.89
050.0	000.1500	-0000.6	006.2	166.5	000.0005	0669.4	013.8	47.80
051.0	000.1500	0001.0	006.2	166.3	000.0005	0670.4	013.9	47.71
052.0	000.1500	0002.3	006.2	166.1	000.0005	0671.4	014.0	47.62
053.0	000.1500	0003.2	006.2	166.0	000.0005	0672.4	014.1	47.52
054.0	000.1500	0003.7	006.2	165.8	000.0005	0673.3	014.2	47.43
055.0	000.1500	0003.9	006.2	165.6	000.0005	0674.1	014.3	47.34
056.0	000.1500	0003.9	006.2	165.5	000.0005	0674.9	014.5	47.25
057.0	000.1500	0003.0	006.2	165.4	000.0005	0675.7	014.6	47.15
058.0	000.1500	0000.9	006.2	165.2	000.0005	0676.3	014.7	47.06
059.0	000.1500	-0002.0	006.2	165.1	000.0005	0677.0	014.8	46.97
060.0	000.1500	-0005.0	006.2	165.0	000.0005	0677.6	014.9	46.88
061.0	000.1500	-0007.6	006.2	164.9	000.0005	0678.1	015.0	46.79
062.0	000.1500	-0009.9	006.2	164.8	000.0005	0678.7	015.1	46.99
063.0	000.1500	-0012.3	006.2	164.7	000.0005	0679.1	015.2	46.90
064.0	000.1500	-0014.8	006.2	164.6	000.0005	0679.5	015.3	46.82

Northwest Rock N Roll Preservation Society

FMCommander Single Allocation Study - 08-10-2013 - NGDC 30 SEC

New's Overlaps (In= 4.18 km, Out= 2.34 km)

New CH 292 D DA

Lat= 46 58 24.0, Lng= 123 08 11.0

0.01 kW 638.7 M HAAT, 842 M COR

Prot.= 60 dBu, Intef.= 54 dBu

KOWA-LP CH 293 L1 BLL20040816AAB

Lat= 47 01 15.0, Lng= 122 57 50.0

0.022 kW 62 M HAAT, 158 M COR

Prot.= 60 dBu, Intef.= 54 dBu

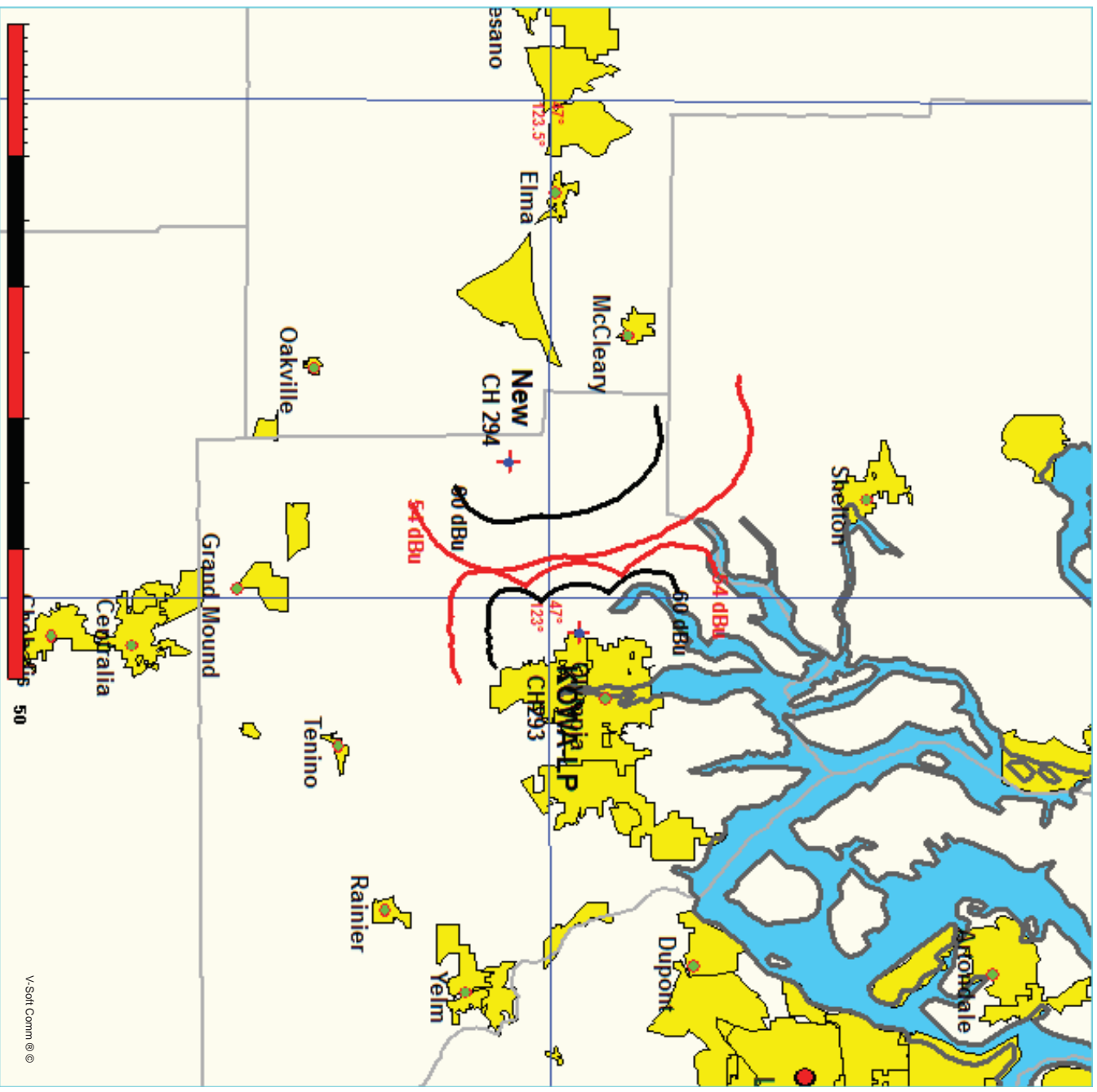


Exhibit 13.6(c) - Protection to KOWA-LP - Olympia, WA

08-10-2013

Terrain Data: NGDC 30 SEC

FMOver Analysis

New

KOWA-LP BLL20040816AAB

Channel = 292D
Max ERP = 0.01 kW
RCAMSL = 842 M
N. Lat. 46 58 24.0
W. Lng. 123 08 11.0
Protected
60 dBu

Channel = 293L1
Max ERP = 0.022 kW
RCAMSL = 158 M
N. Lat. 47 01 15.0
W. Lng. 122 57 50.0
Interfering
54 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
008.0	000.0036	0643.6	010.0	291.5	000.0180	-0008.1	012.6	38.71	
009.0	000.0035	0638.8	009.8	291.0	000.0179	-0008.7	012.4	38.98	
010.0	000.0034	0635.1	009.7	290.6	000.0178	-0009.1	012.2	39.24	
011.0	000.0033	0633.2	009.6	290.1	000.0176	-0009.2	012.0	39.50	
012.0	000.0031	0631.6	009.4	289.6	000.0176	-0008.7	011.8	39.77	
013.0	000.0030	0629.2	009.3	289.1	000.0176	-0007.3	011.6	40.04	
014.0	000.0029	0628.0	009.2	288.5	000.0176	-0005.3	011.4	40.31	
015.0	000.0028	0628.7	009.1	288.0	000.0176	-0003.0	011.3	40.58	
016.0	000.0027	0630.6	008.9	287.4	000.0176	-0001.4	011.1	40.83	
017.0	000.0026	0631.2	008.8	286.8	000.0176	-0000.2	011.0	41.09	
018.0	000.0025	0629.2	008.7	286.0	000.0176	-0000.5	010.8	41.33	
019.0	000.0024	0624.7	008.5	285.2	000.0175	-0003.7	010.7	41.57	
020.0	000.0024	0619.3	008.4	284.4	000.0175	-0009.6	010.5	41.79	
021.0	000.0023	0614.2	008.3	283.6	000.0175	-0016.2	010.4	42.01	
022.0	000.0022	0609.9	008.1	282.7	000.0175	-0023.8	010.3	42.21	
023.0	000.0021	0606.5	008.0	281.9	000.0175	-0030.2	010.2	42.41	
024.0	000.0020	0604.7	007.9	281.0	000.0175	-0034.4	010.1	42.59	
025.0	000.0020	0605.0	007.8	280.2	000.0175	-0038.1	010.0	42.77	
026.0	000.0019	0606.3	007.7	279.4	000.0177	-0043.1	009.9	42.99	
027.0	000.0018	0606.7	007.5	278.5	000.0179	-0050.9	009.8	43.22	
028.0	000.0017	0605.3	007.4	277.6	000.0182	-0061.1	009.7	43.43	
029.0	000.0017	0603.2	007.3	276.6	000.0185	-0074.8	009.6	43.63	
030.0	000.0016	0601.2	007.2	275.7	000.0188	-0090.7	009.5	43.82	
031.0	000.0015	0600.7	007.1	274.8	000.0190	-0103.5	009.5	44.01	
032.0	000.0015	0600.3	007.0	273.9	000.0193	-0116.0	009.4	44.18	
033.0	000.0014	0599.6	006.9	273.0	000.0196	-0129.6	009.4	44.34	
034.0	000.0014	0598.3	006.8	272.0	000.0199	-0143.0	009.3	44.49	
035.0	000.0013	0595.0	006.6	271.0	000.0202	-0148.3	009.3	44.62	
036.0	000.0013	0591.2	006.5	270.1	000.0205	-0151.8	009.2	44.74	
037.0	000.0012	0591.8	006.4	269.1	000.0207	-0155.1	009.2	44.82	
038.0	000.0012	0599.8	006.3	268.2	000.0208	-0159.0	009.2	44.89	
039.0	000.0011	0611.1	006.2	267.3	000.0209	-0168.2	009.2	44.96	
040.0	000.0011	0621.1	006.1	266.4	000.0211	-0173.8	009.2	45.01	
041.0	000.0010	0627.1	006.1	265.6	000.0212	-0177.4	009.1	45.08	
042.0	000.0010	0629.8	006.0	264.8	000.0213	-0180.5	009.1	45.13	
043.0	000.0010	0630.5	005.9	264.0	000.0214	-0182.5	009.1	45.17	

Exhibit 13.6(c) - Protection to KOWA-IP - Olympia, WA

FMOver Analysis

Page # 2

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
044.0	000.0009	0632.9	005.8	263.1	000.0215	-0185.8	009.1	45.20
045.0	000.0009	0638.3	005.7	262.3	000.0217	-0186.5	009.1	45.22
046.0	000.0009	0647.7	005.7	261.5	000.0218	-0184.7	009.1	45.25
047.0	000.0008	0658.1	005.6	260.8	000.0219	-0185.8	009.1	45.26
048.0	000.0008	0667.2	005.5	260.0	000.0220	-0189.2	009.1	45.25
049.0	000.0008	0673.1	005.4	259.2	000.0219	-0194.7	009.2	45.19
050.0	000.0007	0677.1	005.3	258.4	000.0218	-0201.5	009.2	45.11
051.0	000.0007	0679.1	005.3	257.8	000.0217	-0208.9	009.2	45.08
052.0	000.0007	0680.8	005.2	257.1	000.0216	-0215.9	009.2	45.03
053.0	000.0007	0682.4	005.2	256.4	000.0215	-0222.0	009.2	44.98
054.0	000.0007	0683.2	005.1	255.8	000.0214	-0226.3	009.2	44.92
055.0	000.0006	0681.9	005.0	255.1	000.0213	-0228.9	009.3	44.85
056.0	000.0006	0678.1	005.0	254.5	000.0212	-0228.7	009.3	44.77
057.0	000.0006	0672.4	004.9	253.8	000.0211	-0226.4	009.3	44.68
058.0	000.0006	0666.2	004.8	253.2	000.0210	-0223.5	009.4	44.58
059.0	000.0006	0660.5	004.8	252.6	000.0209	-0221.1	009.4	44.48
060.0	000.0006	0655.5	004.7	252.0	000.0208	-0218.6	009.5	44.37
061.0	000.0005	0651.0	004.7	251.5	000.0207	-0216.5	009.5	44.33
062.0	000.0005	0646.5	004.6	251.0	000.0207	-0215.7	009.5	44.28
063.0	000.0005	0642.3	004.6	250.5	000.0206	-0216.0	009.5	44.23
064.0	000.0005	0640.8	004.6	250.0	000.0205	-0217.0	009.6	44.17
065.0	000.0005	0642.5	004.5	249.5	000.0204	-0217.4	009.6	44.11
066.0	000.0005	0646.8	004.5	249.0	000.0202	-0216.3	009.6	44.04
067.0	000.0005	0651.9	004.5	248.6	000.0201	-0213.4	009.6	43.97
068.0	000.0005	0656.4	004.5	248.1	000.0199	-0209.4	009.6	43.90
069.0	000.0005	0659.5	004.4	247.6	000.0198	-0203.3	009.7	43.82
070.0	000.0005	0662.2	004.4	247.2	000.0196	-0195.9	009.7	43.74
071.0	000.0005	0664.3	004.4	246.7	000.0195	-0187.5	009.7	43.71
072.0	000.0005	0666.4	004.4	246.3	000.0194	-0178.9	009.7	43.66
073.0	000.0005	0669.7	004.4	245.8	000.0192	-0171.0	009.7	43.62
074.0	000.0005	0673.8	004.4	245.4	000.0191	-0164.0	009.7	43.57
075.0	000.0005	0679.3	004.4	244.9	000.0189	-0157.7	009.7	43.52
076.0	000.0005	0685.6	004.4	244.5	000.0188	-0151.7	009.7	43.47
077.0	000.0005	0691.4	004.4	244.0	000.0187	-0146.0	009.8	43.42
078.0	000.0005	0696.2	004.4	243.6	000.0185	-0140.2	009.8	43.36
079.0	000.0005	0700.2	004.4	243.1	000.0184	-0133.9	009.8	43.29
080.0	000.0005	0703.8	004.4	242.7	000.0183	-0127.4	009.8	43.23
081.0	000.0005	0706.9	004.5	242.2	000.0181	-0120.9	009.8	43.17
082.0	000.0005	0709.1	004.5	241.8	000.0180	-0114.8	009.8	43.11
083.0	000.0005	0710.9	004.5	241.3	000.0179	-0108.3	009.9	43.04
084.0	000.0005	0713.3	004.5	240.9	000.0177	-0101.6	009.9	42.97
085.0	000.0005	0715.9	004.5	240.5	000.0176	-0094.9	009.9	42.90
086.0	000.0005	0718.4	004.5	240.0	000.0175	-0088.5	009.9	42.83
087.0	000.0005	0720.9	004.5	239.6	000.0175	-0082.5	010.0	42.78
088.0	000.0005	0723.5	004.5	239.2	000.0175	-0076.5	010.0	42.73
089.0	000.0005	0725.3	004.5	238.7	000.0175	-0070.7	010.0	42.68
090.0	000.0005	0726.6	004.6	238.3	000.0175	-0065.0	010.0	42.63
091.0	000.0005	0728.0	004.6	237.9	000.0175	-0059.8	010.1	42.57
092.0	000.0005	0729.3	004.6	237.5	000.0175	-0055.0	010.1	42.51
093.0	000.0005	0730.6	004.6	237.1	000.0175	-0050.5	010.2	42.45
094.0	000.0005	0731.9	004.6	236.7	000.0175	-0046.3	010.2	42.38

Exhibit 13.6(c) - Protection to KOWA-LP - Olympia, WA

FMOVER Analysis

Page # 3

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
095.0	000.0005	0733.0	004.6	236.3	000.0175	-0042.5	010.2	42.31
096.0	000.0005	0734.0	004.6	235.9	000.0175	-0038.7	010.3	42.24
097.0	000.0005	0735.0	004.6	235.5	000.0175	-0035.0	010.3	42.16
098.0	000.0005	0736.4	004.6	235.2	000.0175	-0031.5	010.4	42.08
099.0	000.0005	0737.7	004.6	234.8	000.0175	-0028.3	010.4	42.00
100.0	000.0005	0739.0	004.7	234.4	000.0176	-0025.4	010.5	41.92
101.0	000.0005	0740.2	004.7	234.1	000.0176	-0023.3	010.5	41.82
102.0	000.0005	0741.4	004.7	233.8	000.0176	-0021.5	010.6	41.72
103.0	000.0005	0742.4	004.7	233.5	000.0176	-0020.1	010.6	41.62
104.0	000.0005	0743.4	004.7	233.3	000.0176	-0019.2	010.7	41.52
105.0	000.0005	0744.6	004.7	233.0	000.0176	-0018.7	010.8	41.41
106.0	000.0005	0746.1	004.7	232.7	000.0176	-0018.6	010.8	41.31
107.0	000.0005	0747.6	004.7	232.5	000.0176	-0019.1	010.9	41.20
108.0	000.0005	0749.0	004.7	232.2	000.0176	-0019.8	011.0	41.09
109.0	000.0005	0750.1	004.7	232.0	000.0176	-0020.6	011.0	40.98
110.0	000.0005	0751.2	004.7	231.8	000.0176	-0021.6	011.1	40.87
111.0	000.0005	0752.0	004.7	231.5	000.0176	-0022.6	011.2	40.76
112.0	000.0005	0752.7	004.7	231.3	000.0176	-0023.6	011.2	40.64
113.0	000.0005	0753.0	004.7	231.1	000.0176	-0024.5	011.3	40.53
114.0	000.0005	0752.7	004.7	231.0	000.0176	-0025.3	011.4	40.41
115.0	000.0005	0751.9	004.7	230.8	000.0176	-0025.9	011.5	40.30
116.0	000.0005	0750.6	004.7	230.6	000.0176	-0026.5	011.5	40.18
117.0	000.0005	0748.8	004.7	230.4	000.0176	-0027.0	011.6	40.07
118.0	000.0005	0746.5	004.7	230.3	000.0176	-0027.5	011.7	39.95
119.0	000.0005	0743.4	004.7	230.2	000.0176	-0027.8	011.8	39.83
120.0	000.0005	0740.3	004.7	230.0	000.0176	-0028.0	011.8	39.71
121.0	000.0005	0737.5	004.7	229.9	000.0176	-0028.1	011.9	39.60
122.0	000.0005	0735.9	004.7	229.8	000.0177	-0028.1	012.0	39.49
123.0	000.0005	0735.0	004.7	229.7	000.0177	-0028.0	012.1	39.38
124.0	000.0005	0734.6	004.7	229.6	000.0177	-0027.8	012.1	39.26
125.0	000.0005	0734.4	004.7	229.5	000.0178	-0027.7	012.2	39.15
126.0	000.0005	0734.4	004.7	229.4	000.0178	-0027.6	012.3	39.04
127.0	000.0005	0734.4	004.7	229.3	000.0178	-0027.4	012.4	38.93

Exhibit 13.6(c) - Protection to KOWA-LP - Olympia, WA

08-10-2013 Terrain Data: NGDC 30 SEC FMOver Analysis

KOWA-LP BLI20040816AAB

New

Channel = 293L1
Max ERP = 0.022 kW
RCAMSL = 158 M
N. Lat. 47 01 15.0
W. Lng. 122 57 50.0
Protected

Channel = 292D
Max ERP = 0.01 kW
RCAMSL = 842 M
N. Lat. 46 58 24.0
W. Lng. 123 08 11.0
Interfering

60 dBu

54 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
188.0	000.0220	0095.3	006.9	097.2	000.0005	0735.3	012.2	49.73	
189.0	000.0220	0096.3	006.9	097.4	000.0005	0735.5	012.1	49.85	
190.0	000.0220	0097.6	007.0	097.6	000.0005	0735.8	012.0	49.97	
191.0	000.0220	0098.7	007.0	097.8	000.0005	0736.0	011.9	50.09	
192.0	000.0220	0099.6	007.1	097.9	000.0005	0736.2	011.7	50.22	
193.0	000.0220	0100.3	007.1	098.0	000.0005	0736.3	011.6	50.34	
194.0	000.0220	0100.8	007.1	098.0	000.0005	0736.4	011.5	50.47	
195.0	000.0220	0101.4	007.1	098.0	000.0005	0736.4	011.4	50.60	
196.0	000.0220	0102.0	007.1	098.1	000.0005	0736.5	011.2	50.72	
197.0	000.0220	0102.3	007.2	098.0	000.0005	0736.4	011.1	50.85	
198.0	000.0220	0102.0	007.1	097.9	000.0005	0736.2	011.0	50.97	
199.0	000.0220	0101.7	007.1	097.7	000.0005	0735.9	010.9	51.09	
200.0	000.0220	0101.2	007.1	097.5	000.0005	0735.6	010.8	51.21	
201.0	000.0220	0100.5	007.1	097.2	000.0005	0735.3	010.6	51.32	
202.0	000.0220	0099.7	007.1	096.9	000.0005	0734.9	010.5	51.44	
203.0	000.0220	0098.9	007.0	096.5	000.0005	0734.5	010.4	51.54	
204.0	000.0220	0098.0	007.0	096.1	000.0005	0734.1	010.3	51.65	
205.0	000.0220	0097.2	007.0	095.8	000.0005	0733.8	010.2	51.76	
206.0	000.0220	0096.4	006.9	095.4	000.0005	0733.4	010.1	51.86	
207.0	000.0220	0095.4	006.9	095.0	000.0005	0733.0	010.0	51.97	
208.0	000.0220	0094.3	006.9	094.5	000.0005	0732.5	009.9	52.06	
209.0	000.0220	0092.5	006.8	093.8	000.0005	0731.7	009.8	52.14	
210.0	000.0220	0089.6	006.7	092.9	000.0005	0730.5	009.8	52.18	
211.0	000.0220	0085.9	006.5	091.9	000.0005	0729.1	009.7	52.19	
212.0	000.0220	0081.8	006.4	090.7	000.0005	0727.6	009.7	52.18	
213.0	000.0220	0078.0	006.2	089.6	000.0005	0726.1	009.7	52.16	
214.0	000.0220	0074.3	006.1	088.5	000.0005	0724.5	009.7	52.14	
215.0	000.0220	0070.8	005.9	087.4	000.0005	0722.0	009.7	52.11	
216.0	000.0220	0067.0	005.8	086.4	000.0005	0719.4	009.7	52.06	
217.0	000.0220	0062.6	005.6	085.2	000.0005	0716.4	009.8	51.98	
218.0	000.0220	0057.2	005.4	083.9	000.0005	0712.9	009.8	51.85	
219.0	000.0220	0050.8	005.1	082.2	000.0005	0709.5	010.0	51.62	
220.0	000.0220	0043.7	004.7	080.3	000.0005	0704.8	010.2	51.28	

Exhibit 13.6(c) - Protection to KOWA-LP - Olympia, WA

FMOver Analysis

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
221.0	000.0220	0036.3	004.2	078.4	000.0005	0697.9	010.6	50.91
222.0	000.0220	0027.7	003.8	076.9	000.0005	0691.0	010.8	50.60
223.0	000.0220	0018.1	003.8	076.6	000.0005	0689.3	010.8	50.63
224.0	000.0220	0008.0	003.8	076.3	000.0005	0687.5	010.7	50.66
225.0	000.0220	-0001.5	003.8	076.0	000.0005	0685.7	010.7	50.69
226.0	000.0220	-0009.7	003.8	075.7	000.0005	0683.8	010.7	50.72
227.0	000.0220	-0016.1	003.8	075.4	000.0005	0681.9	010.6	50.74
228.0	000.0220	-0022.1	003.8	075.1	000.0005	0679.9	010.6	50.76
229.0	000.0220	-0026.7	003.8	074.8	000.0005	0677.9	010.6	50.79
230.0	000.0220	-0028.0	003.8	074.4	000.0005	0676.0	010.5	50.81
231.0	000.0220	-0025.1	003.8	074.1	000.0005	0674.3	010.5	50.83
232.0	000.0220	-0020.6	003.8	073.8	000.0005	0672.8	010.5	50.85
233.0	000.0220	-0018.7	003.8	073.4	000.0005	0671.3	010.5	50.87
234.0	000.0220	-0022.4	003.8	073.1	000.0005	0670.0	010.4	50.89
235.0	000.0220	-0030.0	003.8	072.7	000.0005	0668.7	010.4	50.90
236.0	000.0220	-0039.5	003.8	072.4	000.0005	0667.5	010.4	50.92
237.0	000.0220	-0049.6	003.8	072.0	000.0005	0666.5	010.4	50.93
238.0	000.0220	-0061.0	003.8	071.7	000.0005	0665.6	010.4	50.95
239.0	000.0220	-0074.2	003.8	071.3	000.0005	0664.9	010.4	50.96
240.0	000.0220	-0088.1	003.8	071.0	000.0005	0664.2	010.3	50.97
241.0	000.0220	-0103.1	003.8	070.6	000.0005	0663.5	010.3	50.98
242.0	000.0220	-0117.7	003.8	070.2	000.0005	0662.7	010.3	50.99
243.0	000.0220	-0132.2	003.8	069.9	000.0005	0661.7	010.3	51.00
244.0	000.0220	-0146.0	003.8	069.5	000.0005	0660.8	010.3	51.03
245.0	000.0220	-0159.0	003.8	069.1	000.0005	0659.8	010.3	51.05
246.0	000.0220	-0174.2	003.8	068.7	000.0005	0658.8	010.3	51.07
247.0	000.0220	-0192.7	003.8	068.4	000.0005	0657.6	010.3	51.09
248.0	000.0220	-0208.4	003.8	068.0	000.0005	0656.4	010.3	51.10
249.0	000.0220	-0216.1	003.8	067.6	000.0005	0654.9	010.3	51.12
250.0	000.0220	-0217.0	003.8	067.3	000.0005	0653.2	010.3	51.13
251.0	000.0220	-0215.7	003.8	066.9	000.0005	0651.3	010.3	51.13
252.0	000.0220	-0218.5	003.8	066.5	000.0005	0649.4	010.3	51.14
253.0	000.0220	-0222.6	003.8	066.1	000.0005	0647.5	010.3	51.14
254.0	000.0220	-0227.1	003.8	065.8	000.0005	0645.8	010.3	51.14
255.0	000.0220	-0229.2	003.8	065.4	000.0005	0644.1	010.3	51.14
256.0	000.0220	-0224.9	003.8	065.0	000.0005	0642.7	010.3	51.14
257.0	000.0220	-0216.8	003.8	064.7	000.0005	0641.6	010.4	51.14
258.0	000.0220	-0206.1	003.8	064.3	000.0005	0640.9	010.4	51.14
259.0	000.0220	-0196.5	003.8	064.0	000.0005	0640.8	010.4	51.14
260.0	000.0220	-0189.2	003.8	063.6	000.0005	0640.9	010.4	51.14
261.0	000.0220	-0185.2	003.8	063.3	000.0005	0641.6	010.4	51.14
262.0	000.0220	-0185.8	003.8	062.9	000.0005	0642.7	010.4	51.14
263.0	000.0220	-0186.2	003.8	062.6	000.0005	0644.0	010.5	51.14
264.0	000.0220	-0182.4	003.8	062.2	000.0005	0645.5	010.5	51.14
265.0	000.0220	-0180.0	003.8	061.9	000.0005	0647.0	010.5	51.14
266.0	000.0220	-0175.6	003.8	061.6	000.0005	0648.6	010.5	51.14
267.0	000.0220	-0170.5	003.8	061.2	000.0005	0650.0	010.6	51.13
268.0	000.0220	-0161.5	003.8	060.9	000.0005	0651.4	010.6	51.13
269.0	000.0220	-0155.5	003.8	060.6	000.0005	0652.8	010.6	51.12
270.0	000.0220	-0152.0	003.8	060.3	000.0006	0654.2	010.7	51.11
271.0	000.0220	-0148.4	003.8	060.0	000.0006	0655.7	010.7	51.10

Exhibit 13.6(c) - Protection to KOWA-LP - Olympia, WA

FMOver Analysis

Page # 6

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
272.0	000.0220	-0143.3	003.8	059.7	000.0006	0657.3	010.7	51.11
273.0	000.0220	-0129.0	003.8	059.4	000.0006	0658.8	010.8	51.12
274.0	000.0220	-0114.1	003.8	059.1	000.0006	0660.1	010.8	51.12
275.0	000.0220	-0100.6	003.8	058.8	000.0006	0661.7	010.8	51.12
276.0	000.0220	-0085.2	003.8	058.5	000.0006	0663.2	010.9	51.12
277.0	000.0220	-0069.1	003.8	058.2	000.0006	0664.9	010.9	51.12
278.0	000.0220	-0055.9	003.8	057.9	000.0006	0666.6	011.0	51.12
279.0	000.0220	-0046.0	003.8	057.7	000.0006	0668.2	011.0	51.12
280.0	000.0220	-0039.3	003.8	057.4	000.0006	0669.9	011.1	51.11
281.0	000.0220	-0034.5	003.8	057.2	000.0006	0671.4	011.1	51.10
282.0	000.0220	-0029.3	003.8	056.9	000.0006	0673.0	011.1	51.09
283.0	000.0220	-0021.2	003.8	056.7	000.0006	0674.5	011.2	51.08
284.0	000.0220	-0012.5	003.8	056.4	000.0006	0675.8	011.2	51.07
285.0	000.0220	-0005.0	003.8	056.2	000.0006	0677.0	011.3	51.05
286.0	000.0220	-0000.5	003.8	056.0	000.0006	0678.1	011.3	51.03
287.0	000.0220	-0000.6	003.8	055.8	000.0006	0679.1	011.4	51.01
288.0	000.0220	-0003.2	003.8	055.6	000.0006	0680.0	011.4	50.98
289.0	000.0220	-0007.1	003.8	055.4	000.0006	0680.8	011.5	50.96
290.0	000.0220	-0009.1	003.8	055.2	000.0006	0681.4	011.6	50.93
291.0	000.0220	-0008.8	003.8	055.0	000.0006	0681.9	011.6	50.90
292.0	000.0220	-0006.9	003.8	054.8	000.0006	0682.3	011.7	50.86
293.0	000.0220	-0005.2	003.8	054.6	000.0006	0682.6	011.7	50.83
294.0	000.0220	-0004.9	003.8	054.5	000.0006	0682.9	011.8	50.79
295.0	000.0220	-0007.1	003.8	054.3	000.0006	0683.1	011.8	50.75
296.0	000.0220	-0011.9	003.8	054.1	000.0007	0683.2	011.9	50.71
297.0	000.0220	-0017.1	003.8	054.0	000.0007	0683.2	012.0	50.67
298.0	000.0220	-0019.2	003.8	053.9	000.0007	0683.3	012.0	50.63
299.0	000.0220	-0015.9	003.8	053.7	000.0007	0683.3	012.1	50.58
300.0	000.0220	-0007.9	003.8	053.6	000.0007	0683.2	012.1	50.54
301.0	000.0220	0001.2	003.8	053.5	000.0007	0683.1	012.2	50.49
302.0	000.0220	0008.9	003.8	053.3	000.0007	0683.0	012.3	50.44
303.0	000.0220	0015.9	003.8	053.2	000.0007	0682.8	012.3	50.39
304.0	000.0220	0022.7	003.8	053.1	000.0007	0682.6	012.4	50.34
305.0	000.0220	0030.1	003.8	053.0	000.0007	0682.4	012.4	50.30
306.0	000.0220	0037.9	004.3	050.9	000.0007	0678.9	012.4	50.58
307.0	000.0220	0045.4	004.8	048.7	000.0008	0671.8	012.4	50.87

Exhibit 13.6(d)

Northwest Rock N Roll Preservation Society

Protection to KBKS-FM - Tacoma, WA

FMCommander Single Allocation Study - 08-12-2013 - NGDC 30 SEC
New's Overlaps (In=-38.53 km, Out= 2.34 km)

New CH 292 D DA

Lat= 46 58 24.0, Lng= 123 08 11.0
0.01 kW 638.7 M HAAT, 842 M COR
Prot.= 60 dBu, Intef.= 54 dBu

KBKS-FM CH 291 C BLH20001023AFA

Lat= 47 30 17.0, Lng= 121 58 04.0
73.0 kW 698 M HAAT, 932 M COR
Prot.= 60 dBu, Intef.= 54 dBu

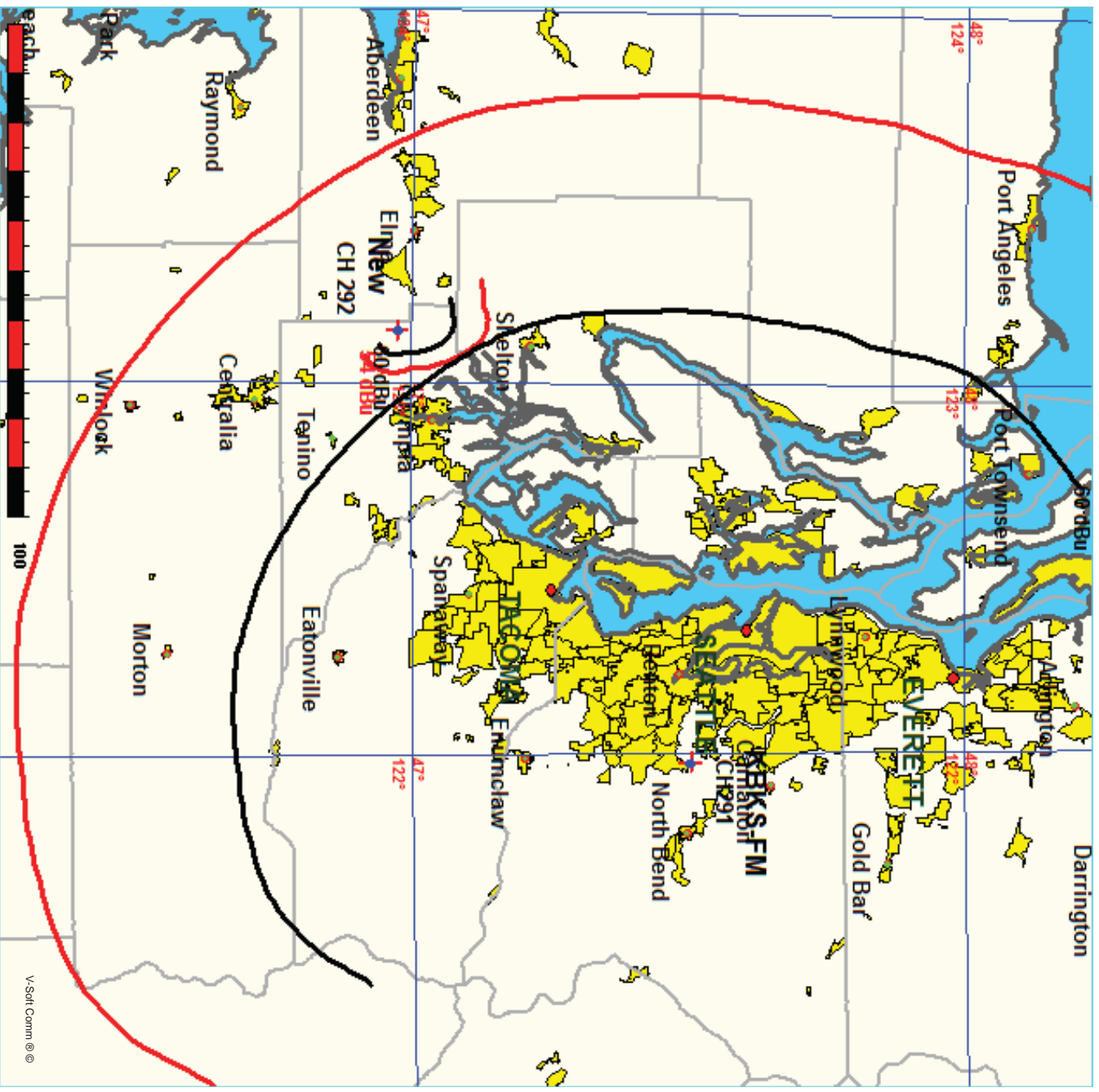


Exhibit 13.6(d) - Protection to KBKS-FM - Tacoma, WA

08-12-2013 Terrain Data: NED 03 SEC FMOVER Analysis

New

KBKS-FM BLH20001023AFA

Channel = 292D
Max ERP = 0.01 kW
RCAMSL = 842 M
N. Lat. 46 58 24.0
W. Lng. 123 08 11.0
Protected
60 dBu

Channel = 291C
Max ERP = 73 kW
RCAMSL = 932 M
N. Lat. 47 30 17.0
W. Lng. 121 58 04.0
Interfering
54 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
011.0	000.0033	0641.5	009.6	240.5	073.0000	0784.8	099.6	65.25*	40.56
012.0	000.0031	0648.4	009.5	240.4	073.0000	0784.6	099.5	65.26*	40.61
013.0	000.0030	0650.1	009.4	240.3	073.0000	0784.3	099.5	65.27*	40.64
014.0	000.0029	0645.9	009.2	240.2	073.0000	0784.1	099.5	65.28*	40.65
015.0	000.0028	0647.1	009.1	240.1	073.0000	0783.9	099.4	65.28*	40.67
016.0	000.0027	0645.8	009.0	239.9	073.0000	0783.6	099.4	65.28*	40.67
017.0	000.0026	0643.5	008.9	239.8	073.0000	0783.2	099.4	65.28*	40.66
018.0	000.0025	0642.3	008.7	239.7	073.0000	0782.6	099.4	65.27*	40.64
019.0	000.0024	0637.9	008.6	239.6	073.0000	0782.1	099.4	65.26*	40.60
020.0	000.0024	0633.3	008.4	239.5	073.0000	0781.6	099.4	65.25*	40.56
021.0	000.0023	0630.0	008.3	239.3	073.0000	0781.2	099.4	65.24*	40.54
022.0	000.0022	0622.3	008.2	239.2	073.0000	0781.0	099.5	65.23*	40.50
023.0	000.0021	0611.9	008.0	239.1	073.0000	0780.7	099.5	65.22*	40.44
024.0	000.0020	0602.2	007.9	239.0	073.0000	0780.4	099.6	65.20*	40.39
025.0	000.0020	0605.8	007.8	238.9	073.0000	0780.2	099.6	65.20*	40.37
026.0	000.0019	0615.2	007.7	238.8	073.0000	0779.8	099.6	65.19*	40.35
027.0	000.0018	0614.3	007.6	238.7	073.0000	0779.5	099.6	65.18*	40.30
028.0	000.0017	0607.8	007.4	238.6	073.0000	0779.1	099.7	65.16*	40.24
029.0	000.0017	0609.9	007.3	238.5	073.0000	0778.9	099.7	65.14*	40.20
030.0	000.0016	0608.6	007.2	238.4	073.0000	0778.6	099.7	65.13*	40.14
031.0	000.0015	0603.6	007.1	238.3	073.0000	0778.4	099.8	65.11*	40.09
032.0	000.0015	0600.6	007.0	238.2	073.0000	0778.2	099.8	65.09*	40.03
033.0	000.0014	0596.4	006.9	238.1	073.0000	0777.9	099.9	65.08*	39.97
034.0	000.0014	0590.2	006.7	238.1	073.0000	0777.6	099.9	65.06*	39.90
035.0	000.0013	0594.6	006.6	238.0	073.0000	0777.4	100.0	65.04*	39.84
036.0	000.0013	0592.0	006.5	237.9	073.0000	0777.1	100.0	65.02*	39.77
037.0	000.0012	0593.9	006.4	237.8	073.0000	0776.9	100.1	65.00*	39.70
038.0	000.0012	0601.8	006.3	237.7	073.0000	0776.7	100.2	64.98*	39.64
039.0	000.0011	0618.1	006.2	237.6	073.0000	0776.5	100.2	64.96*	39.58
040.0	000.0011	0626.9	006.1	237.6	073.0000	0776.3	100.3	64.94*	39.51
041.0	000.0010	0630.9	006.1	237.5	073.0000	0776.1	100.3	64.93*	39.46
042.0	000.0010	0629.9	006.0	237.4	073.0000	0776.0	100.4	64.91*	39.40
043.0	000.0010	0624.0	005.9	237.4	073.0000	0775.9	100.4	64.89*	39.33
044.0	000.0009	0616.0	005.8	237.3	073.0000	0775.7	100.5	64.87*	39.25
045.0	000.0009	0620.7	005.7	237.2	073.0000	0775.6	100.6	64.85*	39.19
046.0	000.0009	0634.7	005.6	237.2	073.0000	0775.4	100.6	64.83*	39.13

Exhibit 13.6(d) - Protection to KBKS-FM - Tacoma, WA

FMOver Analysis

Page # 2

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
047.0	000.0008	0649.1	005.6	237.1	073.0000	0775.2	100.7	64.81*
048.0	000.0008	0661.1	005.5	237.0	073.0000	0775.0	100.7	64.79*
049.0	000.0008	0673.3	005.4	237.0	073.0000	0774.8	100.8	64.77*
050.0	000.0007	0681.9	005.3	236.9	073.0000	0774.6	100.8	64.75*
051.0	000.0007	0684.7	005.3	236.9	073.0000	0774.5	100.9	64.73*
052.0	000.0007	0688.2	005.2	236.8	073.0000	0774.3	100.9	64.72*
053.0	000.0007	0691.1	005.2	236.8	073.0000	0774.2	101.0	64.70*
054.0	000.0007	0689.2	005.1	236.7	073.0000	0774.1	101.1	64.68*
055.0	000.0006	0685.3	005.0	236.7	073.0000	0774.0	101.1	64.66*
056.0	000.0006	0679.6	005.0	236.6	073.0000	0773.9	101.2	64.64*
057.0	000.0006	0671.1	004.9	236.6	073.0000	0773.8	101.3	64.62*
058.0	000.0006	0662.3	004.8	236.5	073.0000	0773.7	101.3	64.59*
059.0	000.0006	0656.4	004.8	236.5	073.0000	0773.6	101.4	64.57*
060.0	000.0006	0648.7	004.7	236.4	073.0000	0773.4	101.5	64.55*
061.0	000.0005	0648.4	004.7	236.4	073.0000	0773.3	101.5	64.53*
062.0	000.0005	0644.7	004.6	236.3	073.0000	0773.2	101.6	64.52*
063.0	000.0005	0636.7	004.6	236.3	073.0000	0773.1	101.6	64.51*
064.0	000.0005	0632.2	004.6	236.2	073.0000	0773.0	101.6	64.49*
065.0	000.0005	0633.2	004.5	236.2	073.0000	0772.8	101.7	64.48*
066.0	000.0005	0640.1	004.5	236.2	073.0000	0772.6	101.7	64.47*
067.0	000.0005	0652.1	004.5	236.1	073.0000	0772.5	101.8	64.45*
068.0	000.0005	0657.6	004.5	236.1	073.0000	0772.3	101.8	64.44*
069.0	000.0005	0660.1	004.4	236.0	073.0000	0772.2	101.8	64.43*
070.0	000.0005	0663.8	004.4	236.0	073.0000	0772.1	101.9	64.41*
071.0	000.0005	0663.8	004.4	236.0	073.0000	0771.9	101.9	64.41*
072.0	000.0005	0666.9	004.4	235.9	073.0000	0771.8	101.9	64.40*
073.0	000.0005	0671.3	004.4	235.9	073.0000	0771.6	101.9	64.39*
074.0	000.0005	0675.2	004.4	235.8	073.0000	0771.5	102.0	64.38*
075.0	000.0005	0677.2	004.4	235.8	073.0000	0771.4	102.0	64.37*
076.0	000.0005	0679.7	004.4	235.8	073.0000	0771.2	102.0	64.36*
077.0	000.0005	0685.3	004.4	235.7	073.0000	0771.1	102.0	64.36*
078.0	000.0005	0691.2	004.4	235.7	073.0000	0771.0	102.1	64.35*
079.0	000.0005	0696.3	004.4	235.6	073.0000	0770.9	102.1	64.34*
080.0	000.0005	0700.6	004.4	235.6	073.0000	0770.7	102.1	64.33*
081.0	000.0005	0703.7	004.5	235.6	073.0000	0770.5	102.1	64.32*
082.0	000.0005	0705.5	004.5	235.5	073.0000	0770.3	102.2	64.31*
083.0	000.0005	0706.3	004.5	235.5	073.0000	0770.1	102.2	64.29*
084.0	000.0005	0708.1	004.5	235.4	073.0000	0769.9	102.2	64.28*
085.0	000.0005	0711.5	004.5	235.4	073.0000	0769.7	102.3	64.27*
086.0	000.0005	0718.2	004.5	235.3	073.0000	0769.5	102.3	64.26*
087.0	000.0005	0721.8	004.5	235.3	073.0000	0769.4	102.3	64.25*
088.0	000.0005	0723.8	004.5	235.3	073.0000	0769.2	102.4	64.24*
089.0	000.0005	0726.1	004.5	235.2	073.0000	0769.1	102.4	64.23*
090.0	000.0005	0730.1	004.6	235.2	073.0000	0768.9	102.4	64.21*
091.0	000.0005	0734.6	004.6	235.1	073.0000	0768.8	102.5	64.20*
092.0	000.0005	0737.9	004.6	235.1	073.0000	0768.7	102.5	64.19*
093.0	000.0005	0740.1	004.6	235.1	073.0000	0768.6	102.5	64.18*
094.0	000.0005	0741.9	004.6	235.0	073.0000	0768.5	102.6	64.16*
095.0	000.0005	0743.7	004.6	235.0	073.0000	0768.5	102.6	64.15*
096.0	000.0005	0745.2	004.6	234.9	073.0000	0768.4	102.7	64.14*
097.0	000.0005	0745.6	004.6	234.9	073.0000	0768.3	102.7	64.12*

Exhibit 13.6(d) - Protection to KBKS-FM - Tacoma, WA

FMOver Analysis

Page # 3

08-12-2013

Terrain Data: NED 03 SEC

FMOver Analysis

KBKS-FM BLH20001023AFA

New

Channel = 291C
Max ERP = 73 kW
RCAMSL = 932 M
N. Lat. 47 30 17.0
W. Lng. 121 58 04.0
Protected
60 dBu

Channel = 292D
Max ERP = 0.01 kW
RCAMSL = 842 M
N. Lat. 46 58 24.0
W. Lng. 123 08 11.0
Interfering
54 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
192.0	073.0000	0740.4	093.8	114.9	000.0005	0758.8	076.6	20.63	
193.0	073.0000	0744.9	094.0	115.3	000.0005	0758.8	075.2	21.06	
194.0	073.0000	0746.6	094.0	115.6	000.0005	0758.4	073.6	21.53	
195.0	073.0000	0748.7	094.1	115.9	000.0005	0757.7	072.0	22.00	
196.0	073.0000	0746.9	094.0	116.1	000.0005	0757.1	070.4	22.49	
197.0	073.0000	0749.1	094.1	116.4	000.0005	0756.2	068.8	22.97	
198.0	073.0000	0751.5	094.2	116.7	000.0005	0755.2	067.2	23.45	
199.0	073.0000	0751.4	094.2	116.9	000.0005	0754.3	065.6	23.94	
200.0	073.0000	0752.5	094.2	117.2	000.0005	0753.4	063.9	24.45	
201.0	073.0000	0754.7	094.3	117.4	000.0005	0752.7	062.3	24.97	
202.0	073.0000	0755.3	094.3	117.6	000.0005	0752.0	060.7	25.52	
203.0	073.0000	0757.5	094.4	117.9	000.0005	0751.1	059.1	26.07	
204.0	073.0000	0760.4	094.5	118.1	000.0005	0750.1	057.4	26.64	
205.0	073.0000	0765.2	094.7	118.4	000.0005	0748.7	055.8	27.21	
206.0	073.0000	0767.3	094.8	118.6	000.0005	0747.8	054.1	27.80	
207.0	073.0000	0768.1	094.8	118.7	000.0005	0747.3	052.5	28.40	
208.0	073.0000	0765.4	094.7	118.7	000.0005	0747.6	050.8	29.02	
209.0	073.0000	0767.0	094.8	118.7	000.0005	0747.2	049.2	29.62	
210.0	073.0000	0767.2	094.8	118.7	000.0005	0747.2	047.5	30.22	
211.0	073.0000	0769.0	094.8	118.8	000.0005	0747.0	045.9	30.84	
212.0	073.0000	0770.2	094.9	118.7	000.0005	0747.2	044.2	31.50	
213.0	073.0000	0770.9	094.9	118.7	000.0005	0747.6	042.6	32.18	
214.0	073.0000	0771.7	094.9	118.5	000.0005	0748.3	040.9	32.88	
215.0	073.0000	0773.5	095.0	118.4	000.0005	0749.0	039.2	33.61	
216.0	073.0000	0776.7	095.1	118.2	000.0005	0749.6	037.6	34.35	
217.0	073.0000	0779.4	095.2	118.0	000.0005	0750.5	035.9	35.11	
218.0	073.0000	0780.1	095.2	117.6	000.0005	0752.1	034.3	35.89	
219.0	073.0000	0779.3	095.2	117.0	000.0005	0753.9	032.6	36.67	
220.0	073.0000	0778.1	095.2	116.3	000.0005	0756.5	031.0	37.47	

Exhibit 13.6(d) - Protection to KBKS-FM - Tacoma, WA

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
221.0	073.0000	0777.1	095.1	115.5	000.0005	0758.6	029.4	38.33
222.0	073.0000	0777.5	095.1	114.6	000.0005	0758.6	027.8	39.22
223.0	073.0000	0777.5	095.1	113.5	000.0005	0757.6	026.2	40.14
224.0	073.0000	0776.0	095.1	112.1	000.0005	0756.8	024.7	41.08
225.0	073.0000	0775.2	095.1	110.4	000.0005	0758.0	023.2	42.08
226.0	073.0000	0775.5	095.1	108.6	000.0005	0757.5	021.7	43.08
227.0	073.0000	0776.4	095.1	106.5	000.0005	0753.9	020.2	44.07
228.0	073.0000	0778.5	095.2	104.1	000.0005	0750.1	018.8	45.06
229.0	073.0000	0779.3	095.2	101.1	000.0005	0746.0	017.4	46.02
230.0	073.0000	0778.9	095.2	097.5	000.0005	0745.4	016.1	46.90
231.0	073.0000	0778.8	095.2	093.1	000.0005	0740.3	014.9	47.28
232.0	073.0000	0776.2	095.1	087.8	000.0005	0723.4	014.0	47.89
233.0	073.0000	0772.5	095.0	081.5	000.0005	0705.0	013.2	48.34
234.0	073.0000	0769.6	094.9	074.6	000.0005	0676.1	012.6	48.69
235.0	073.0000	0768.5	094.8	067.2	000.0005	0653.9	012.1	49.12
236.0	073.0000	0772.0	094.9	059.4	000.0006	0652.4	011.8	49.97
237.0	073.0000	0774.8	095.0	051.3	000.0007	0686.2	011.7	51.26
238.0	073.0000	0777.5	095.1	043.3	000.0009	0621.9	011.9	51.85
239.0	073.0000	0780.4	095.2	035.7	000.0013	0594.5	012.3	52.43
240.0	073.0000	0783.8	095.4	028.7	000.0017	0608.8	013.0	53.10
241.0	073.0000	0786.1	095.4	022.6	000.0021	0616.5	013.9	53.32
242.0	073.0000	0789.6	095.6	017.3	000.0026	0642.9	014.9	53.53
243.0	073.0000	0794.9	095.8	012.6	000.0031	0650.2	016.0	53.72
244.0	073.0000	0798.6	095.9	008.7	000.0035	0648.8	017.2	53.31
245.0	073.0000	0798.4	095.9	005.8	000.0039	0655.0	018.7	52.74
246.0	073.0000	0797.7	095.9	003.5	000.0042	0648.5	020.1	51.89
247.0	073.0000	0798.7	095.9	001.3	000.0044	0639.7	021.6	50.97
248.0	073.0000	0797.6	095.9	359.7	000.0047	0644.0	023.2	50.15
249.0	073.0000	0797.5	095.9	358.3	000.0048	0646.7	024.7	49.30
250.0	073.0000	0795.3	095.8	357.3	000.0050	0641.3	026.4	48.31
251.0	073.0000	0791.0	095.6	356.6	000.0051	0636.3	028.0	47.31
252.0	073.0000	0787.1	095.5	356.0	000.0051	0629.6	029.6	46.34
253.0	073.0000	0783.8	095.4	355.5	000.0052	0624.5	031.3	45.45
254.0	073.0000	0781.1	095.3	355.0	000.0053	0622.0	032.9	44.68
255.0	073.0000	0771.9	094.9	355.0	000.0053	0622.1	034.6	43.90
256.0	073.0000	0764.6	094.7	355.0	000.0053	0621.9	036.3	43.15
257.0	073.0000	0759.9	094.5	354.9	000.0053	0621.2	038.0	42.42
258.0	073.0000	0757.2	094.4	354.7	000.0053	0620.5	039.6	41.71
259.0	073.0000	0751.2	094.2	354.7	000.0053	0620.7	041.3	41.01
260.0	073.0000	0745.0	094.0	354.8	000.0053	0621.0	042.9	40.33
261.0	073.0000	0740.1	093.8	354.9	000.0053	0621.2	044.6	39.67
262.0	073.0000	0736.1	093.6	354.9	000.0053	0621.4	046.2	39.04
263.0	073.0000	0733.7	093.6	354.9	000.0053	0621.4	047.9	38.43
264.0	073.0000	0729.9	093.4	355.0	000.0053	0622.1	049.5	37.83
265.0	073.0000	0724.7	093.2	355.2	000.0052	0623.0	051.1	37.23
266.0	073.0000	0720.6	093.1	355.4	000.0052	0623.9	052.8	36.64
267.0	073.0000	0716.0	092.9	355.6	000.0052	0625.4	054.4	36.04
268.0	073.0000	0710.9	092.7	355.8	000.0052	0627.6	056.0	35.46
269.0	073.0000	0704.6	092.5	356.1	000.0051	0630.9	057.6	34.90
270.0	073.0000	0701.1	092.4	356.3	000.0051	0633.3	059.2	34.34
271.0	073.0000	0700.9	092.3	356.4	000.0051	0634.5	060.8	33.78

Exhibit 13.7 - Directional Antenna Information

New

08-10-2013

RMS(V) = .608

Graph is Relative Field

Azi	Field	dbk	kW
000	0.680	-23.350	0.005
010	0.580	-24.731	0.003
020	0.485	-26.285	0.002
030	0.400	-27.959	0.002
040	0.325	-29.762	0.001
050	0.270	-31.373	0.001
060	0.235	-32.579	0.001
070	0.220	-33.152	0.000
080	0.220	-33.152	0.000
090	0.225	-32.956	0.001
100	0.230	-32.765	0.001
110	0.230	-32.765	0.001
120	0.230	-32.765	0.001
130	0.230	-32.765	0.001
140	0.225	-32.956	0.001
150	0.220	-33.152	0.000
160	0.220	-33.152	0.000
170	0.235	-32.579	0.001
180	0.270	-31.373	0.001
190	0.325	-29.762	0.001
200	0.400	-27.959	0.002
210	0.485	-26.285	0.002
220	0.580	-24.731	0.003
230	0.680	-23.350	0.005
240	0.770	-22.270	0.006
250	0.845	-21.463	0.007
260	0.905	-20.867	0.008
270	0.950	-20.446	0.009
280	0.980	-20.175	0.010
290	0.995	-20.044	0.010
300	0.995	-20.044	0.010
310	0.980	-20.175	0.010
320	0.950	-20.446	0.009
330	0.905	-20.867	0.008
340	0.845	-21.463	0.007
350	0.770	-22.270	0.006

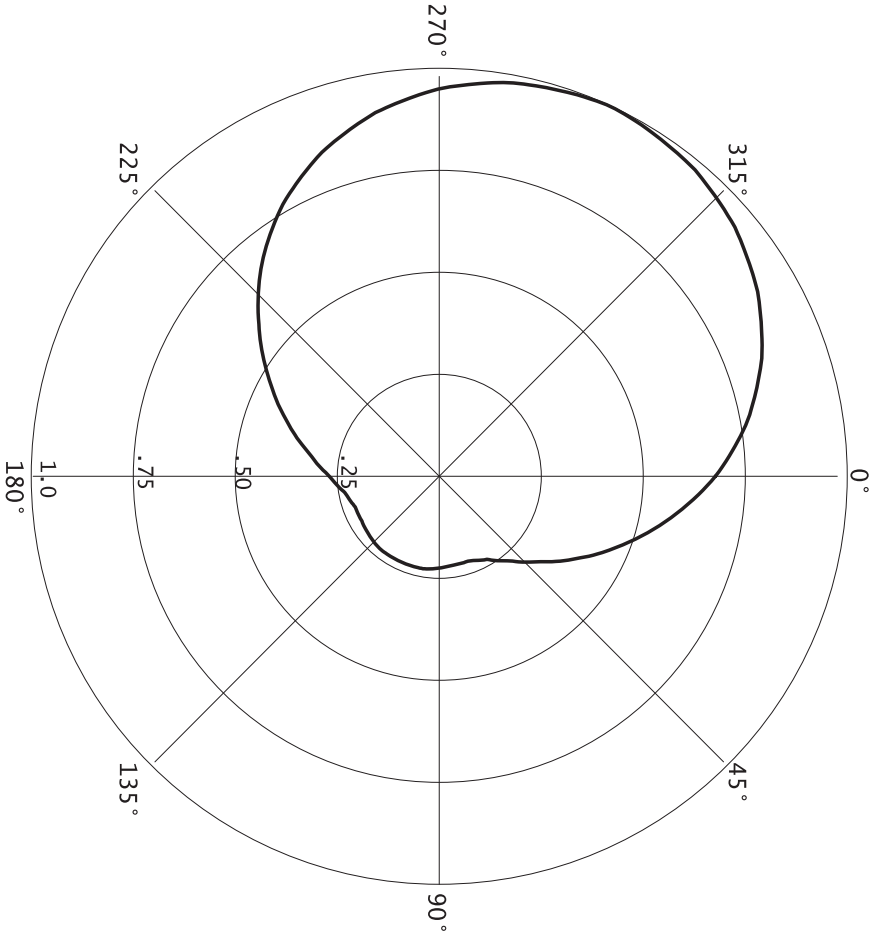
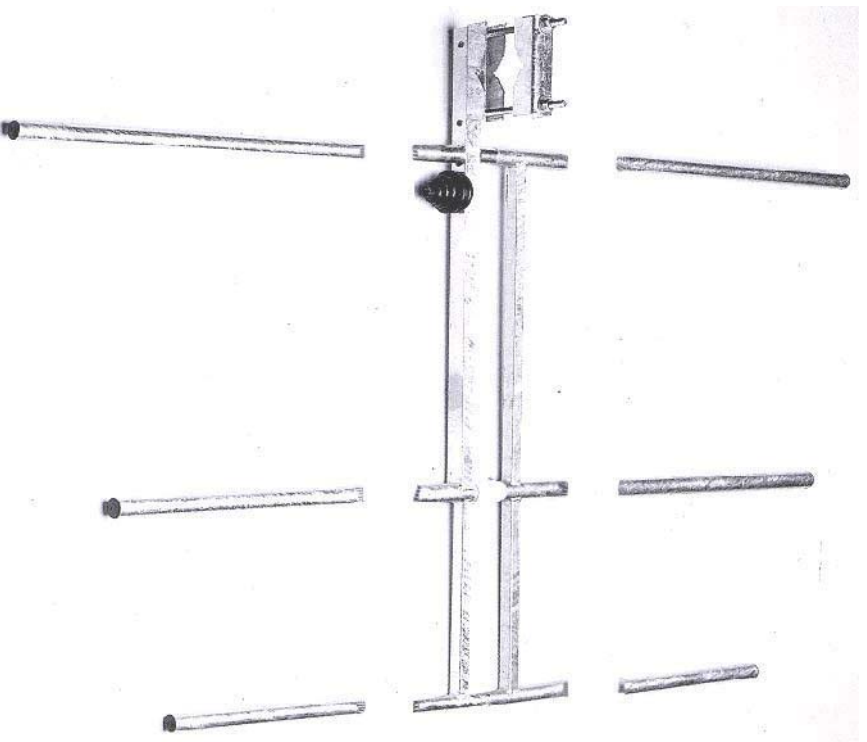


Exhibit 13.7 - Manufacturer's Directional Antenna Pattern Data

(Actual Pattern Rotated to 295°T)



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

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

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 omnidirectional 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

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 ft² (0.19 m²)
Materials (external) stainless steel
Mounting from 2" to 4"
Weight 20 Lbs (9 kg)
Dimensions 50"x72"x3" (1250×1800×60mm)
Packing 53"x19"x4" (1300×480×100mm)

Radiation Patterns (at mid-band)

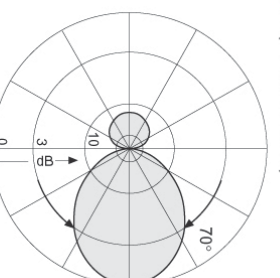
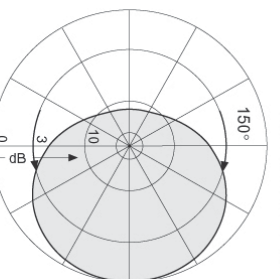
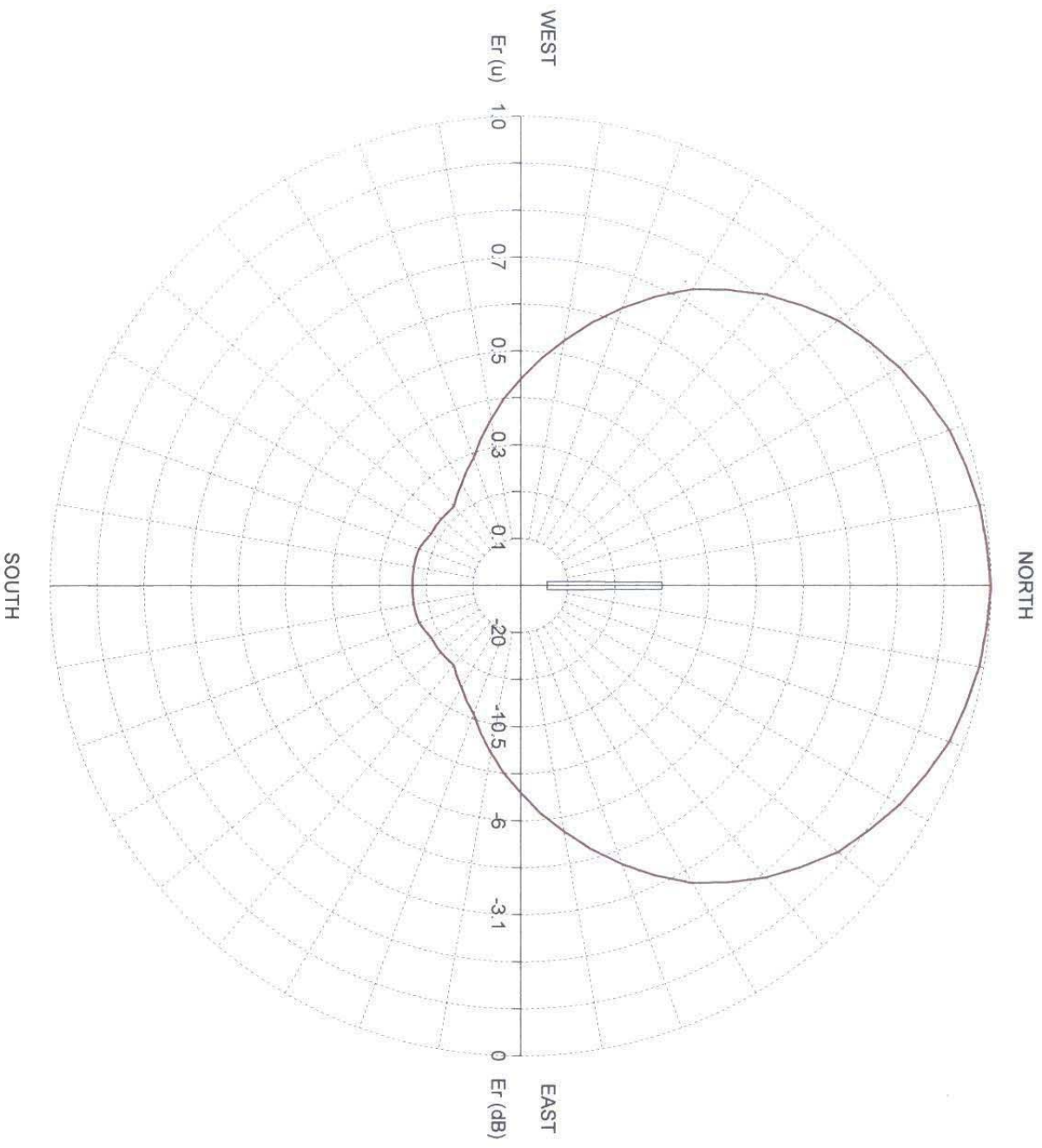


Exhibit 13.7 - Manufacturer's Directional Antenna Pattern Data (Actual Pattern Rotated to 295°T)



TX Station: BKY/3-2
Frequency: 98.00 MHz

Horizontal diagram



0.0° depres. (Total antenna), Gain (dBd): 6.6 ERP T.max (KW): 4.582 ERP E.max (KW): 3.557



Exhibit 13.7 - Manufacturer's Directional Antenna Pattern Data (Actual Pattern Rotated to 295°T)

TX Station: BKY/3-2
Frequency: 98.00 MHz

Site Name:

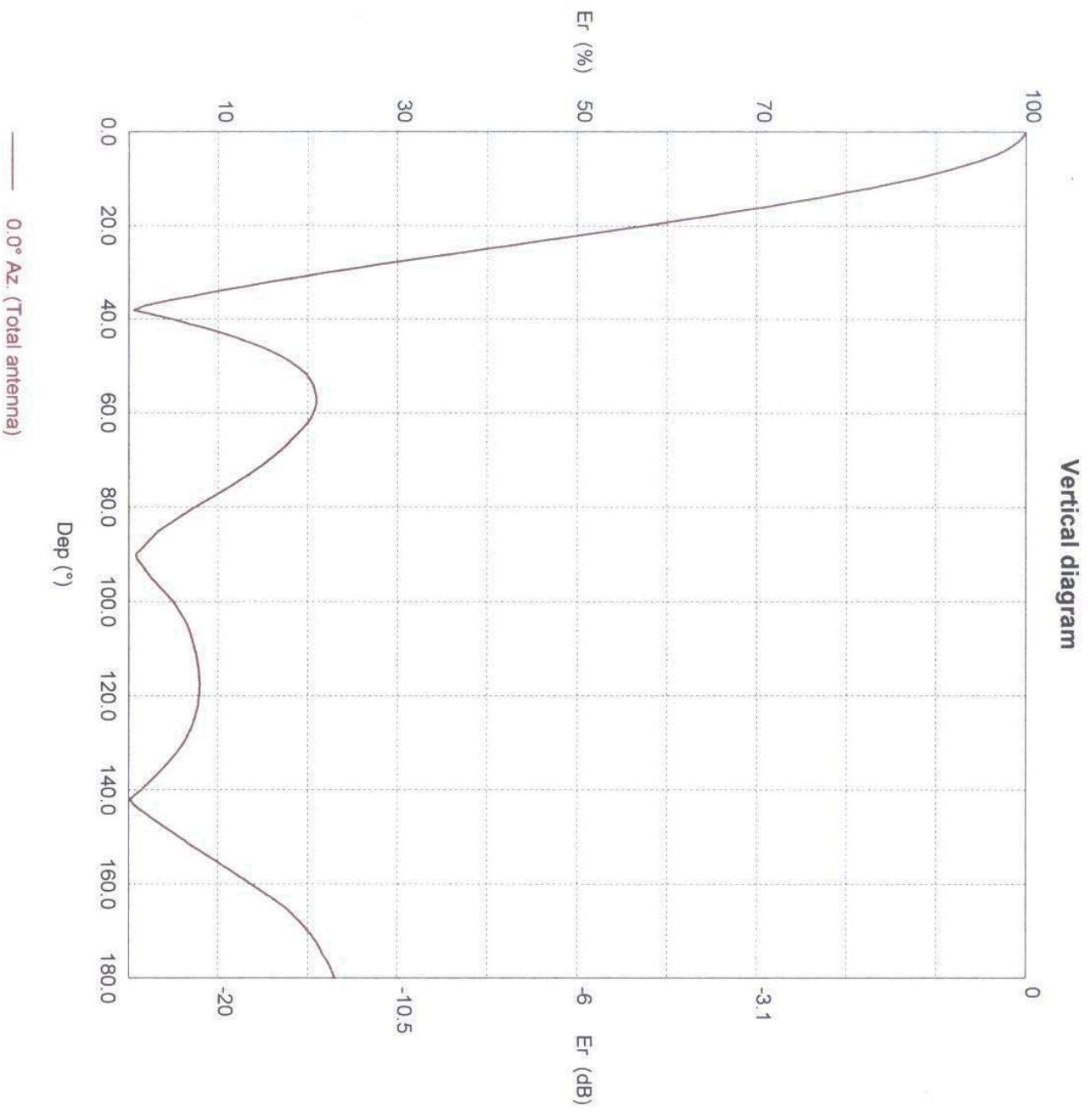


Exhibit 13.7 - Manufacturer's Directional Antenna Pattern Data (Actual Pattern Rotated to 295°T)



TX Station: BKY/3-2
Frequency: 98.00 MHz

Site Name:

Vertical diagram at an azimuth of 0° degrees

Dep (°)	Er (%)	ERP (kW)	Dep (°)	Er (%)	ERP (kW)	Dep (°)	Er (%)	ERP (kW)
0.0	100.0	3.56	60.0	20.6	0.15	120.0	7.9	0.02
2.0	99.2	3.50	62.0	20.0	0.14	122.0	7.8	0.02
4.0	97.6	3.39	64.0	19.0	0.13	124.0	7.5	0.02
6.0	95.1	3.21	66.0	18.0	0.12	126.0	7.2	0.02
8.0	91.6	2.99	68.0	16.9	0.10	128.0	6.7	0.02
10.0	87.5	2.72	70.0	15.6	0.09	130.0	6.2	0.01
12.0	82.5	2.42	72.0	14.2	0.07	132.0	5.4	0.01
14.0	77.0	2.11	74.0	12.6	0.06	134.0	4.5	0.01
16.0	70.9	1.79	76.0	11.0	0.04	136.0	3.6	0.00
18.0	64.3	1.47	78.0	9.2	0.03	138.0	2.5	0.00
20.0	57.5	1.18	80.0	7.4	0.02	140.0	1.4	0.00
22.0	50.4	0.90	82.0	5.8	0.01	142.0	0.2	0.00
24.0	43.3	0.67	84.0	4.2	0.01	144.0	1.2	0.00
26.0	36.1	0.46	86.0	2.8	0.00	146.0	2.6	0.00
28.0	28.9	0.30	88.0	1.8	0.00	148.0	4.1	0.01
30.0	22.2	0.17	90.0	0.8	0.00	150.0	5.7	0.01
32.0	15.8	0.09	92.0	1.4	0.00	152.0	7.2	0.02
34.0	9.9	0.04	94.0	2.2	0.00	154.0	8.9	0.03
36.0	4.4	0.01	96.0	3.1	0.00	156.0	10.5	0.04
38.0	0.6	0.00	98.0	4.0	0.01	158.0	12.1	0.05
40.0	5.0	0.01	100.0	5.0	0.01	160.0	13.7	0.07
42.0	8.9	0.03	102.0	5.7	0.01	162.0	15.3	0.08
44.0	12.3	0.05	104.0	6.3	0.01	164.0	16.8	0.10
46.0	15.0	0.08	106.0	6.8	0.02	166.0	18.1	0.12
48.0	17.2	0.11	108.0	7.1	0.02	168.0	19.1	0.13
50.0	18.8	0.13	110.0	7.4	0.02	170.0	20.1	0.14
52.0	20.0	0.14	112.0	7.6	0.02	172.0	20.8	0.15
54.0	20.6	0.15	114.0	7.8	0.02	174.0	21.4	0.16
56.0	20.9	0.16	116.0	7.9	0.02	176.0	22.0	0.17
58.0	20.9	0.16	118.0	7.9	0.02	178.0	22.6	0.18

TX Station: BKY/3-2
Frequency: 98.00 MHz

Site Name:

Horizontal diagram at 0.0° depres. (T total antenna)

Az (°)	Er (%)	ERP (kW)	Az (°)	Er (%)	ERP (kW)	Az (°)	Er (%)	ERP (kW)
0.0	100.0	3.56	120.0	25.0	0.22	240.0	25.0	0.22
10.0	99.0	3.49	130.0	22.0	0.17	250.0	29.0	0.30
20.0	97.0	3.35	140.0	22.0	0.17	260.0	36.0	0.46
30.0	93.0	3.08	150.0	22.0	0.17	270.0	44.0	0.69
40.0	88.0	2.75	160.0	23.0	0.19	280.0	53.0	1.00
50.0	81.0	2.33	170.0	23.0	0.19	290.0	63.0	1.41
60.0	73.0	1.90	180.0	23.0	0.19	300.0	73.0	1.90
70.0	63.0	1.41	190.0	23.0	0.19	310.0	81.0	2.33
80.0	53.0	1.00	200.0	23.0	0.19	320.0	88.0	2.75
90.0	44.0	0.69	210.0	22.0	0.17	330.0	93.0	3.08
100.0	36.0	0.46	220.0	22.0	0.17	340.0	97.0	3.35
110.0	29.0	0.30	230.0	22.0	0.17	350.0	99.0	3.49