Technical Exhibit
Minor Modification of Translator for KTTO
878m RC-AMSL 170m AGL
75 Watts

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The instant application proposes modifying K244DY to the KTTO tower pursuant to the AM Revitalization minor modification window. The move is less than 250 miles.

Interference Compliance

Contour protection, as required by C.F.R. Section 74.1204 to co-channel and first, second and third adjacent channels is demonstrated herein by Figure 1.

All contours plotted in exhibits are displayed in accordance with the propagation prediction curves of Section 73.333 utilizing NED 30m terrain.

The instant application seeks a waiver of the second adjacent minimum distance separation requirement of 47 C.F.R. Section 74.1204. The proposed facility will not interfere with any authorized radio service, specifically, KZBD and KSPO.

Figure 2 displays the interfering 148.7 dBu F(50,10) contour of the proposed facility with respect to KZBD. The closest the contour comes to the ground is 169m. There are no tall buildings within the area.

Figure 2-1 displays the interfering 118.9 dBu F(50,10) contour of the proposed facility with respect to KSPO. The closest the contour comes to the ground is 139.6m. There are no tall buildings within the contour.

AM Fill-In Eligibility

The instant facility complies with the requirements of a cross band fill-in translator, i.e., the 60 dBu F(50,50) contour of the instant facility is within both the 2 mV/m contour of its intended Primary station, KTTO, and within 40 kM of KBLE's transmit site, which is smaller (see Figure 3).

RF Electromagnetic Exposure Analysis

The proposed facility will not have a significant environmental impact and complies with maximum permissible radio frequency electromagnetic exposure limits for a controlled environment, in accordance with OET Bulletin No. 65.

Using a worst case assumption of maximum downward radiation (F=1.0) the RF exposure at 2m above ground level is less than .1% of the controlled standard. This is inconsequential when added to existing RF on the tower.

The power will be reduced or shut off to allow necessary access to the tower.

Figure 1
Minor Modification of K244DY

REFERENCE CH# 291D - 106.1 MHz, Pwr= 0.075 kW DA, HAAT= 195.0 M, COR= 878 M DISPLAY DATES
47 36 58.6 N. Average Protected F(50-50)= 13.38 km DATA 07-25-16
117 21 58.8 W. Standard Directional SEARCH 07-25-16

CH CALL / CITY	TYPE ANT / STATE	AZI / <--	DIST / FILE #	LAT / LNG	PWR(kW) / HAAT(M)	INT(km) / COR(M)	PRO(km) / LICENSEE	*IN* / (Overlap in km)	*OUT*
289C KZBD Spokane	LIC _CX WA	128.3 308.3	6.70 BMLH20091013ABK	47 34 44.0 117 17 46.0	100.000 582	14.0 1304	92.7 Mapleton License Of Spokan	-12.7*	-86.3*
291C1 KZFN Moscow	LIC _CY ID	163.9 344.2	108.15 BLH19890213KA	46 40 51.0 116 58 26.0	63.000 281	159.8 1119	67.0 Krpl, Inc.	-63.2*	1.4
293A KSPO Dishman	LIC _C_ WA	15.5 195.6	8.98 BLH20001219ABI	47 41 39.0 117 20 03.0	2.250 161	2.3 802	26.5 Liberty Broadcasting Syste	-7.3*	-18.1*
291B AL6194 Creston	AL ___ BC	16.2 196.7	179.63	49 09 56.0 116 40 39.0	50.000 150	171.9 150	65.0	-7.7	48.5
291L1 KOTF-LP Hayden	CP ___ ID	66.0 246.4	47.57 BMPL20160629ABC	47 47 21.0 116 47 05.0	0.100 -68	713	14.6 Hayden Christian Broadcast		0.7
294C3 KTPO Kootenai	LIC NCX ID	42.9 223.5	93.43 BLH20070109AAS	48 13 45.0 116 30 30.0	1.300 353	2.3 1097	37.3 Hellroaring Communications	77.5	55.1
291D VF2536 Grand Forks	USE _CN BC	332.9 152.1	179.25 20090129CA2	49 02 43.0 118 29 11.0	0.013 -133	10.9 603	4.8	151.8	87.4
292C KDBR Kalispell	LIC DEY MT	64.8 247.0	243.77 BLH19980916KC	48 30 42.0 114 22 16.0	60.000 721	140.7 2018	97.1 Bee Broadcasting, Inc.	90.1	128.2
291B R13019 Summerland	VAC ___ BC	325.3 143.6	279.33	49 39 33.0 119 34 23.0	50.000 150	171.9 150	65.0	90.6	143.9
293C0 KEGX Richland	LIC _CX WA	219.1 37.8	215.33 BLH20060804AFO	46 05 58.0 119 07 40.0	100.000 424	13.6 743	91.5 Ingstad Radio Washington,	188.4	123.2

Terrain database is NED 30 Meter , R= 73.215 qualifying spacings or FCC minimum Spacings in KM, M= Margin in KM
In & Out distances between contours are shown at closest points. Reference zone= West Zone, Co to 3rd adjacent.
All separation margins (if shown) include rounding.
Ant Column: (D= DA Standard, Z= DA 73.215, N= Not DA 73.215, _= Omni), Polarization (C,H,V,E), Beamtilt(Y,N,X)
"*"affixed to 'IN' or 'OUT' values = site inside restricted contour.
Reference station has protected zone issue: AM tower

Figure 1-1
Minor Modification of K244DY

FMCommander Single Allocation Study - 07-25-2016 - NED 30 Meter
K244DY's Overlaps (In= -63.2 km, Out= 1.41 km)

K244DY CH 291 D DA
Lat= 47 36 58.6, Lng= 117 21 58.8
0.075 kW 195 m HAAT, 878 m COR
Prot.= 60 dBu, Intef.= 40 dBu

KZFN CH 291 C1 BLH19890213KA
Lat= 46 40 51.0, Lng= 116 58 26.0
63.0 kW 281 m HAAT, 1119 m COR
Prot.= 60 dBu, Intef.= 40 dBu

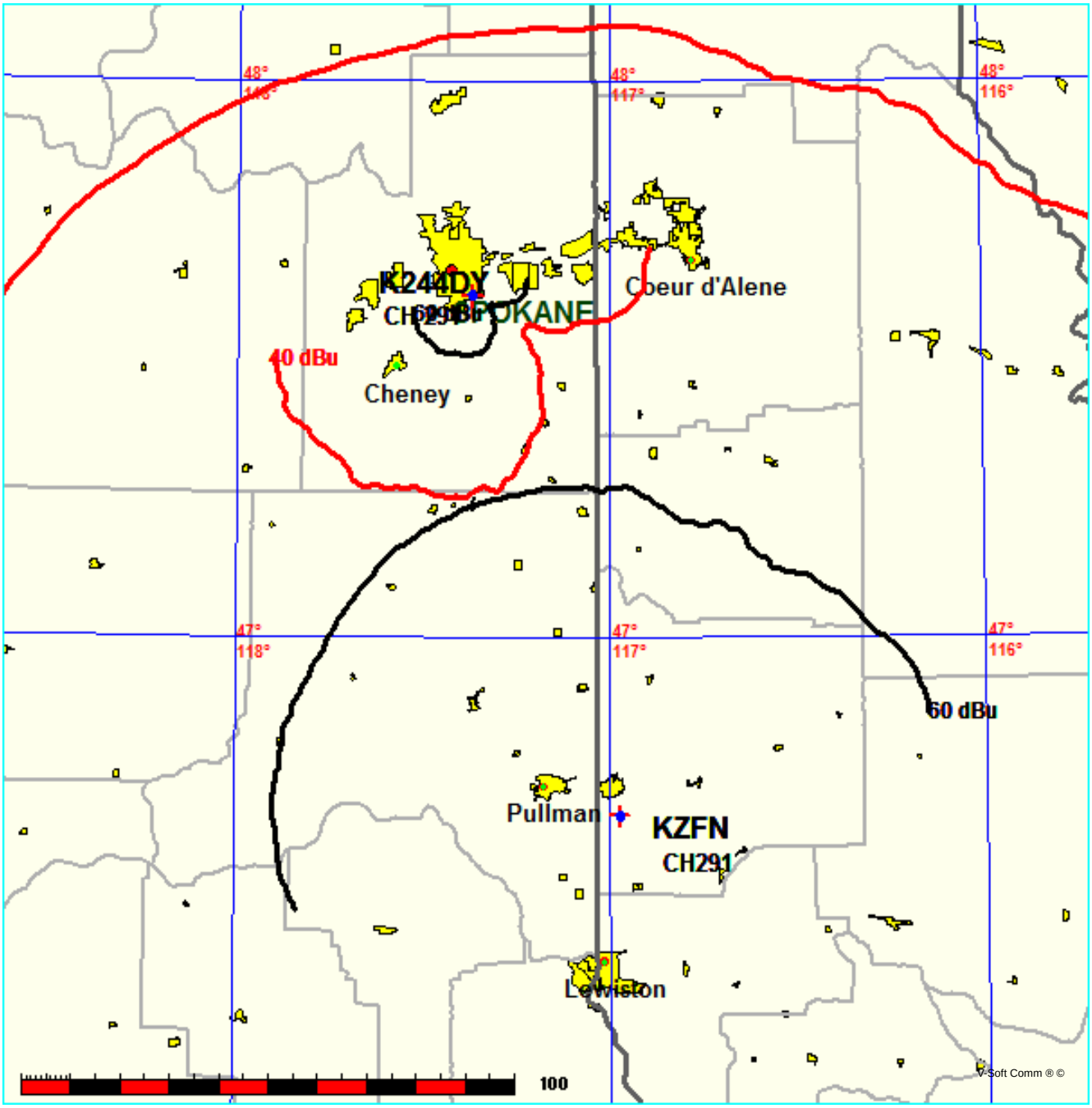


Figure 1-2

07-25-2016 Terrain Data: NED 30 Meter FMOver Analysis

K244DY

Channel = 291D
Max ERP = 0.075 kW
RCAMSL = 878 m
N. Lat. 47 36 58.6
W. Lng. 117 21 58.8
Protected
60 dBu

KZFN BLH19890213KA

Channel = 291C1
Max ERP = 63 kW
RCAMSL = 1119 m
N. Lat. 46 40 51.0
W. Lng. 116 58 26.0
Interfering
40 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
104.0	000.0234	0091.0	006.8	347.5	063.0000	0289.4	104.9	51.74*	54.42
105.0	000.0234	0084.1	006.6	347.3	063.0000	0289.7	104.9	51.74*	54.42
106.0	000.0234	0075.3	006.2	347.1	063.0000	0290.3	105.0	51.73*	54.40
107.0	000.0233	0076.7	006.3	347.1	063.0000	0290.3	104.9	51.77*	54.53
108.0	000.0233	0077.1	006.3	347.1	063.0000	0290.3	104.8	51.80*	54.63
109.0	000.0232	0075.6	006.2	347.0	063.0000	0290.5	104.7	51.83*	54.71
110.0	000.0232	0075.0	006.2	347.0	063.0000	0290.7	104.6	51.85*	54.80
111.0	000.0231	0070.9	006.0	346.8	063.0000	0291.1	104.6	51.86*	54.83
112.0	000.0230	0066.7	005.8	346.7	063.0000	0291.4	104.7	51.87*	54.85
113.0	000.0230	0063.3	005.7	346.6	063.0000	0291.5	104.7	51.87*	54.85
114.0	000.0229	0060.3	005.6	346.6	063.0000	0291.5	104.7	51.87*	54.86
115.0	000.0229	0054.0	005.3	346.4	063.0000	0291.3	104.8	51.84*	54.74
116.0	000.0229	0049.5	005.0	346.3	063.0000	0291.4	104.8	51.81*	54.66
117.0	000.0230	0041.5	004.6	346.0	063.0000	0291.2	105.1	51.73*	54.40
118.0	000.0230	0030.2	003.9	345.7	063.0000	0290.5	105.5	51.59*	53.93
119.0	000.0231	0018.7	003.9	345.7	063.0000	0290.4	105.4	51.60*	53.97
120.0	000.0232	0011.0	003.9	345.7	063.0000	0290.4	105.4	51.62*	54.01
121.0	000.0232	0006.4	003.9	345.7	063.0000	0290.3	105.3	51.63*	54.05
122.0	000.0233	0005.0	003.9	345.6	063.0000	0290.2	105.3	51.64*	54.09
123.0	000.0233	0005.6	003.9	345.6	063.0000	0290.1	105.3	51.65*	54.13
124.0	000.0234	0008.7	003.9	345.6	063.0000	0290.1	105.2	51.67*	54.17
125.0	000.0234	0016.0	003.9	345.5	063.0000	0290.0	105.2	51.68*	54.21
126.0	000.0234	0024.3	003.9	345.5	063.0000	0289.9	105.1	51.69*	54.25
127.0	000.0236	0027.1	003.9	345.5	063.0000	0289.9	105.1	51.70*	54.29
128.0	000.0237	0032.8	004.1	345.5	063.0000	0289.9	104.9	51.76*	54.47
129.0	000.0238	0036.6	004.3	345.6	063.0000	0290.0	104.7	51.83*	54.72
130.0	000.0239	0041.5	004.6	345.6	063.0000	0290.2	104.4	51.92*	55.03
131.0	000.0240	0045.1	004.8	345.7	063.0000	0290.3	104.1	52.00*	55.28
132.0	000.0241	0045.6	004.9	345.6	063.0000	0290.3	104.0	52.02*	55.35
133.0	000.0242	0049.1	005.1	345.7	063.0000	0290.3	103.8	52.09*	55.58
134.0	000.0244	0054.6	005.4	345.7	063.0000	0290.4	103.5	52.18*	55.90
135.0	000.0245	0057.8	005.5	345.7	063.0000	0290.4	103.3	52.24*	56.08
136.0	000.0246	0061.5	005.7	345.7	063.0000	0290.4	103.1	52.30*	56.27
137.0	000.0249	0065.4	005.9	345.7	063.0000	0290.4	102.9	52.36*	56.47
138.0	000.0251	0069.0	006.0	345.7	063.0000	0290.4	102.8	52.42*	56.65
139.0	000.0252	0072.8	006.2	345.7	063.0000	0290.4	102.6	52.48*	56.85
140.0	000.0254	0075.7	006.3	345.7	063.0000	0290.3	102.4	52.53*	57.01
141.0	000.0257	0078.0	006.5	345.6	063.0000	0290.2	102.2	52.57*	57.15
142.0	000.0258	0080.7	006.6	345.6	063.0000	0290.1	102.1	52.62*	57.31
143.0	000.0260	0082.2	006.7	345.6	063.0000	0290.0	102.0	52.65*	57.41
144.0	000.0263	0084.8	006.8	345.5	063.0000	0289.9	101.8	52.69*	57.56
145.0	000.0265	0090.1	007.0	345.5	063.0000	0289.9	101.6	52.77*	57.81
146.0	000.0267	0095.7	007.2	345.5	063.0000	0289.8	101.3	52.85*	58.07
147.0	000.0271	0102.9	007.5	345.5	063.0000	0289.8	101.0	52.95*	58.39
148.0	000.0274	0109.5	007.8	345.4	063.0000	0289.8	100.7	53.04*	58.68
149.0	000.0277	0117.3	008.1	345.4	063.0000	0289.8	100.3	53.14*	59.00
150.0	000.0280	0123.1	008.3	345.4	063.0000	0289.7	100.1	53.22*	59.24
151.0	000.0283	0130.1	008.6	345.3	063.0000	0289.7	099.8	53.30*	59.53
152.0	000.0286	0133.6	008.7	345.3	063.0000	0289.7	099.6	53.36*	59.70
153.0	000.0289	0134.1	008.8	345.2	063.0000	0289.5	099.6	53.37*	59.75
154.0	000.0293	0139.9	009.0	345.1	063.0000	0289.3	099.3	53.45*	59.98
155.0	000.0296	0142.1	009.1	345.0	063.0000	0289.0	099.2	53.47*	60.07
156.0	000.0301	0138.6	009.0	344.9	063.0000	0288.8	099.3	53.45*	60.00
157.0	000.0306	0140.0	009.1	344.9	063.0000	0288.6	099.1	53.48*	60.10

Figure 1-2

158.0	000.0311	0142.9	009.2	344.8	063.0000	0288.5	099.0	53.53*	60.24
159.0	000.0317	0147.5	009.4	344.7	063.0000	0288.6	098.8	53.60*	60.47
160.0	000.0322	0153.6	009.7	344.6	063.0000	0288.9	098.5	53.69*	60.76
161.0	000.0327	0160.5	009.9	344.5	063.0000	0289.3	098.2	53.79*	61.09
162.0	000.0333	0166.3	010.2	344.4	063.0000	0289.8	098.0	53.88*	61.38
163.0	000.0338	0166.7	010.2	344.3	063.0000	0290.4	097.9	53.92*	61.50
164.0	000.0344	0173.0	010.5	344.2	063.0000	0291.2	097.7	54.02*	61.81
165.0	000.0349	0179.5	010.7	344.1	063.0000	0291.8	097.4	54.11*	62.11
166.0	000.0355	0185.0	010.9	344.0	063.0000	0292.2	097.2	54.19*	62.34
167.0	000.0360	0191.4	011.1	343.9	063.0000	0292.5	097.0	54.26*	62.57
168.0	000.0366	0193.6	011.2	343.7	063.0000	0292.8	096.9	54.30*	62.70
169.0	000.0372	0195.0	011.3	343.6	063.0000	0293.2	096.9	54.33*	62.79
170.0	000.0378	0192.5	011.3	343.5	063.0000	0293.1	096.9	54.31*	62.73
171.0	000.0384	0197.8	011.5	343.4	063.0000	0292.8	096.8	54.35*	62.87
172.0	000.0390	0209.2	011.8	343.2	063.0000	0292.5	096.5	54.44*	63.16
173.0	000.0396	0211.1	011.9	343.1	063.0000	0292.0	096.4	54.45*	63.17
174.0	000.0402	0206.3	011.8	343.0	063.0000	0291.5	096.5	54.39*	62.99
175.0	000.0408	0203.5	011.8	342.9	063.0000	0291.1	096.6	54.36*	62.88
176.0	000.0417	0196.3	011.7	342.8	063.0000	0291.0	096.8	54.30*	62.69
177.0	000.0425	0192.2	011.6	342.7	063.0000	0291.0	096.9	54.26*	62.58
178.0	000.0434	0192.9	011.7	342.5	063.0000	0290.9	096.9	54.27*	62.60
179.0	000.0444	0193.3	011.8	342.4	063.0000	0291.2	096.8	54.28*	62.63
180.0	000.0452	0196.6	011.9	342.3	063.0000	0291.9	096.8	54.32*	62.77
181.0	000.0461	0201.8	012.1	342.1	063.0000	0293.0	096.6	54.40*	63.01
182.0	000.0470	0203.3	012.2	342.0	063.0000	0294.1	096.6	54.44*	63.14
183.0	000.0480	0203.1	012.3	341.8	063.0000	0294.9	096.6	54.46*	63.20
184.0	000.0488	0200.4	012.2	341.7	063.0000	0295.7	096.8	54.45*	63.17
185.0	000.0498	0197.5	012.2	341.6	063.0000	0296.4	096.9	54.44*	63.13
186.0	000.0508	0197.6	012.3	341.5	063.0000	0297.0	096.9	54.44*	63.16
187.0	000.0518	0198.1	012.3	341.4	063.0000	0297.5	096.9	54.45*	63.19
188.0	000.0529	0197.6	012.4	341.2	063.0000	0298.1	097.0	54.45*	63.19
189.0	000.0539	0194.4	012.3	341.1	063.0000	0298.5	097.1	54.42*	63.10
190.0	000.0550	0193.3	012.4	341.0	063.0000	0298.7	097.2	54.41*	63.04
191.0	000.0560	0190.3	012.3	340.9	063.0000	0298.9	097.3	54.37*	62.92
192.0	000.0570	0187.2	012.3	340.8	063.0000	0298.9	097.5	54.32*	62.78
193.0	000.0582	0183.3	012.2	340.7	063.0000	0299.1	097.6	54.28*	62.64
194.0	000.0593	0180.3	012.2	340.6	063.0000	0299.2	097.8	54.24*	62.50
195.0	000.0603	0179.5	012.2	340.5	063.0000	0299.4	097.9	54.21*	62.43
196.0	000.0612	0177.9	012.2	340.4	063.0000	0299.7	098.0	54.18*	62.32
197.0	000.0618	0174.5	012.1	340.4	063.0000	0299.9	098.2	54.12*	62.15
198.0	000.0627	0174.3	012.2	340.2	063.0000	0300.2	098.3	54.10*	62.07
199.0	000.0633	0178.6	012.3	340.1	063.0000	0300.5	098.3	54.11*	62.11
200.0	000.0642	0181.3	012.5	339.9	063.0000	0300.5	098.3	54.10*	62.08
201.0	000.0650	0181.7	012.5	339.8	063.0000	0300.6	098.5	54.07*	61.98
202.0	000.0657	0182.3	012.6	339.7	063.0000	0300.7	098.6	54.04*	61.88
203.0	000.0666	0185.3	012.7	339.6	063.0000	0301.0	098.6	54.03*	61.86
204.0	000.0673	0187.7	012.8	339.4	063.0000	0301.3	098.7	54.02*	61.81
205.0	000.0681	0189.4	012.9	339.3	063.0000	0301.5	098.8	53.99*	61.74
206.0	000.0684	0190.8	013.0	339.2	063.0000	0301.4	098.9	53.95*	61.61
207.0	000.0687	0191.0	013.0	339.1	063.0000	0301.3	099.1	53.90*	61.44
208.0	000.0690	0193.4	013.1	339.0	063.0000	0301.0	099.2	53.85*	61.29
209.0	000.0693	0197.9	013.2	338.8	063.0000	0301.2	099.3	53.84*	61.24
210.0	000.0696	0202.4	013.4	338.7	063.0000	0301.6	099.3	53.82*	61.20
211.0	000.0698	0203.3	013.4	338.6	063.0000	0301.8	099.5	53.78*	61.06
212.0	000.0701	0203.1	013.4	338.5	063.0000	0302.0	099.7	53.72*	60.90
213.0	000.0704	0202.2	013.4	338.4	063.0000	0302.1	099.9	53.67*	60.71
214.0	000.0707	0200.0	013.4	338.3	063.0000	0302.2	100.1	53.60*	60.50
215.0	000.0710	0194.2	013.2	338.4	063.0000	0302.2	100.4	53.51*	60.21
216.0	000.0712	0190.1	013.1	338.3	063.0000	0302.2	100.7	53.43*	59.95
217.0	000.0713	0187.8	013.0	338.3	063.0000	0302.3	100.9	53.36*	59.73
218.0	000.0714	0184.0	012.9	338.3	063.0000	0302.3	101.1	53.28*	59.49
219.0	000.0716	0182.7	012.8	338.3	063.0000	0302.4	101.3	53.22*	59.29
220.0	000.0717	0184.0	012.9	338.2	063.0000	0302.7	101.5	53.17*	59.14
221.0	000.0719	0184.5	012.9	338.1	063.0000	0302.9	101.7	53.12*	58.98
222.0	000.0720	0184.8	012.9	338.0	063.0000	0303.2	101.9	53.06*	58.81
223.0	000.0722	0184.1	012.9	338.0	063.0000	0303.4	102.1	53.00*	58.62

Figure 1-2

KZFN BLH19890213KA

Channel = 291C1
Max ERP = 63 kW
RCAMSL = 1119 m
N. Lat. 46 40 51.0
W. Lng. 116 58 26.0
Protected
60 dBu

K244DY

Channel = 291D
Max ERP = 0.075 kW
RCAMSL = 878 m
N. Lat. 47 36 58.6
W. Lng. 117 21 58.8
Interfering
40 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
284.0	063.0000	0337.7	070.5	203.8	000.0672	0187.2	095.4	21.58	
285.0	063.0000	0335.5	070.3	203.9	000.0672	0187.3	094.1	21.94	
286.0	063.0000	0332.4	070.1	203.9	000.0672	0187.3	092.9	22.31	
287.0	063.0000	0328.5	069.8	203.8	000.0671	0187.1	091.6	22.67	
288.0	063.0000	0330.1	069.9	203.9	000.0672	0187.5	090.4	23.06	
289.0	063.0000	0329.8	069.9	204.0	000.0673	0187.7	089.2	23.44	
290.0	063.0000	0327.7	069.8	204.0	000.0672	0187.6	088.0	23.81	
291.0	063.0000	0323.3	069.4	203.8	000.0671	0187.2	086.7	24.16	
292.0	063.0000	0323.0	069.4	203.8	000.0671	0187.2	085.5	24.54	
293.0	063.0000	0320.1	069.2	203.7	000.0671	0186.9	084.3	24.91	
294.0	063.0000	0315.8	068.9	203.5	000.0669	0186.5	083.1	25.26	
295.0	063.0000	0316.2	068.9	203.5	000.0669	0186.5	081.9	25.64	
296.0	063.0000	0318.2	069.1	203.6	000.0670	0186.6	080.7	26.04	
297.0	063.0000	0314.8	068.8	203.4	000.0668	0186.3	079.5	26.39	
298.0	063.0000	0312.5	068.6	203.2	000.0667	0185.8	078.3	26.75	
299.0	063.0000	0314.3	068.8	203.2	000.0667	0185.9	077.1	27.14	
300.0	063.0000	0313.7	068.7	203.1	000.0666	0185.6	075.9	27.51	
301.0	063.0000	0316.6	068.9	203.1	000.0666	0185.7	074.7	27.91	
302.0	063.0000	0316.1	068.9	203.0	000.0665	0185.2	073.5	28.27	
303.0	063.0000	0316.1	068.9	202.8	000.0664	0184.7	072.3	28.63	
304.0	063.0000	0319.2	069.1	202.8	000.0664	0184.8	071.1	29.04	
305.0	063.0000	0321.4	069.3	202.8	000.0663	0184.5	069.9	29.43	
306.0	063.0000	0319.6	069.2	202.4	000.0661	0183.3	068.8	29.74	
307.0	063.0000	0319.9	069.2	202.2	000.0659	0182.6	067.6	30.10	
308.0	063.0000	0320.8	069.3	202.0	000.0657	0182.3	066.4	30.47	
309.0	063.0000	0320.9	069.3	201.7	000.0655	0182.1	065.2	30.84	
310.0	063.0000	0321.4	069.3	201.4	000.0653	0182.1	064.1	31.22	
311.0	063.0000	0322.6	069.4	201.1	000.0651	0181.9	062.9	31.60	
312.0	063.0000	0324.1	069.5	200.8	000.0649	0181.6	061.7	31.98	
313.0	063.0000	0320.7	069.3	200.2	000.0643	0181.4	060.7	32.31	
314.0	063.0000	0322.0	069.4	199.8	000.0640	0181.3	059.5	32.71	
315.0	063.0000	0326.1	069.6	199.6	000.0638	0181.1	058.3	33.14	
316.0	063.0000	0328.5	069.8	199.2	000.0635	0179.5	057.1	33.48	
317.0	063.0000	0329.4	069.9	198.7	000.0632	0177.3	056.0	33.77	
318.0	063.0000	0329.1	069.9	198.1	000.0627	0174.6	055.0	34.02	
319.0	063.0000	0328.9	069.9	197.4	000.0622	0173.9	053.9	34.35	
320.0	063.0000	0328.2	069.8	196.7	000.0616	0175.4	052.9	34.76	
321.0	063.0000	0325.7	069.6	195.8	000.0610	0178.7	052.0	35.22	
322.0	063.0000	0325.3	069.6	195.0	000.0603	0179.5	051.0	35.58	
323.0	063.0000	0321.9	069.3	193.9	000.0592	0180.7	050.2	35.86	
324.0	063.0000	0321.5	069.3	193.0	000.0582	0183.3	049.3	36.27	
325.0	063.0000	0321.9	069.3	192.1	000.0571	0186.9	048.4	36.71	
326.0	063.0000	0319.3	069.2	190.9	000.0559	0190.5	047.7	37.07	
327.0	063.0000	0319.1	069.1	189.8	000.0548	0193.5	046.8	37.46	
328.0	063.0000	0319.5	069.2	188.8	000.0537	0194.8	046.0	37.78	
329.0	063.0000	0318.6	069.1	187.6	000.0524	0198.4	045.3	38.14	
330.0	063.0000	0315.1	068.8	186.1	000.0509	0197.8	044.7	38.21	
331.0	063.0000	0316.7	069.0	185.0	000.0498	0197.5	044.0	38.44	
332.0	063.0000	0315.3	068.9	183.6	000.0485	0201.9	043.4	38.78	
333.0	063.0000	0312.1	068.6	182.0	000.0471	0203.3	043.0	38.90	
334.0	063.0000	0313.3	068.7	180.7	000.0458	0199.7	042.3	38.89	
335.0	063.0000	0311.5	068.6	179.1	000.0444	0193.5	041.9	38.65	
336.0	063.0000	0307.1	068.2	177.4	000.0429	0191.7	041.8	38.49	
337.0	063.0000	0303.9	068.0	175.8	000.0416	0198.2	041.6	38.74	
338.0	063.0000	0303.3	068.0	174.2	000.0403	0205.2	041.3	39.09	
339.0	063.0000	0301.1	067.8	172.6	000.0394	0211.6	041.1	39.35	

Figure 1-2

340.0	063.0000	0300.5	067.8	170.9	000.0384	0197.3	040.9	38.67
341.0	063.0000	0298.7	067.6	169.3	000.0373	0194.7	040.8	38.45
342.0	063.0000	0293.9	067.2	167.6	000.0364	0192.4	041.0	38.13
343.0	063.0000	0291.5	067.1	165.9	000.0355	0184.5	041.1	37.60
344.0	063.0000	0292.1	067.1	164.3	000.0345	0175.5	041.1	37.11
345.0	063.0000	0288.9	066.8	162.7	000.0336	0166.1	041.3	36.41
346.0	063.0000	0291.2	067.0	161.0	000.0327	0160.7	041.2	36.07
347.0	063.0000	0290.5	067.0	159.4	000.0319	0150.5	041.4	35.35
348.0	063.0000	0288.6	066.8	157.9	000.0310	0142.5	041.7	34.66
349.0	063.0000	0285.4	066.6	156.4	000.0303	0138.9	042.2	34.14
350.0	063.0000	0283.7	066.4	154.9	000.0295	0142.4	042.6	34.05
351.0	063.0000	0281.6	066.3	153.5	000.0291	0136.4	043.1	33.45
352.0	063.0000	0276.5	065.9	152.2	000.0287	0133.6	043.8	32.92
353.0	063.0000	0275.1	065.7	150.8	000.0282	0129.7	044.3	32.42
354.0	063.0000	0276.9	065.9	149.4	000.0278	0120.3	044.6	31.71
355.0	063.0000	0272.2	065.5	148.3	000.0275	0111.3	045.5	30.75
356.0	063.0000	0266.4	065.0	147.3	000.0272	0104.9	046.4	29.89
357.0	063.0000	0263.6	064.8	146.2	000.0268	0097.6	047.2	28.97
358.0	063.0000	0268.4	065.2	144.8	000.0264	0089.8	047.4	28.17
359.0	063.0000	0268.9	065.2	143.7	000.0262	0083.3	048.0	27.34
000.0	063.0000	0271.0	065.4	142.4	000.0259	0081.5	048.6	26.94
001.0	063.0000	0271.9	065.5	141.3	000.0257	0078.7	049.2	26.43
002.0	063.0000	0268.1	065.2	140.6	000.0256	0076.9	050.2	25.89
003.0	063.0000	0262.6	064.7	140.0	000.0254	0075.6	051.3	25.37
004.0	063.0000	0255.0	064.1	139.5	000.0253	0074.9	052.5	24.87
005.0	063.0000	0250.5	063.8	138.9	000.0252	0072.5	053.5	24.29
006.0	063.0000	0240.4	063.0	138.7	000.0252	0071.6	054.9	23.75
007.0	063.0000	0233.1	062.4	138.4	000.0251	0070.1	056.1	23.20
008.0	063.0000	0230.8	062.2	137.9	000.0250	0068.6	057.1	22.75
009.0	063.0000	0224.5	061.6	137.6	000.0250	0067.8	058.2	22.29
010.0	063.0000	0216.3	060.9	137.5	000.0250	0067.6	059.5	21.87
011.0	063.0000	0212.8	060.6	137.1	000.0249	0066.0	060.6	21.42
012.0	063.0000	0204.2	059.8	137.1	000.0249	0066.0	061.9	21.04
013.0	063.0000	0206.7	060.1	136.4	000.0247	0062.9	062.6	20.56
014.0	063.0000	0210.3	060.4	135.6	000.0246	0060.4	063.3	20.15
015.0	063.0000	0208.6	060.2	135.3	000.0245	0059.0	064.3	19.77
016.0	063.0000	0210.0	060.4	134.7	000.0244	0056.4	065.1	19.33
017.0	063.0000	0211.8	060.5	134.2	000.0244	0054.8	066.0	18.98
018.0	063.0000	0223.4	061.5	133.0	000.0242	0048.9	066.5	18.31
019.0	063.0000	0226.3	061.8	132.4	000.0241	0046.7	067.4	17.89
020.0	063.0000	0229.7	062.1	131.8	000.0241	0045.3	068.2	17.55
021.0	063.0000	0219.2	061.2	132.2	000.0241	0046.1	069.6	17.32
022.0	063.0000	0223.8	061.6	131.5	000.0241	0045.0	070.4	17.02
023.0	063.0000	0227.7	061.9	131.0	000.0240	0045.1	071.3	16.81
024.0	063.0000	0222.9	061.5	131.1	000.0240	0045.0	072.5	16.55
025.0	063.0000	0210.9	060.4	131.6	000.0241	0045.0	073.8	16.27
026.0	063.0000	0202.7	059.7	131.9	000.0241	0045.5	075.0	16.03
027.0	063.0000	0198.9	059.4	132.0	000.0241	0045.5	076.1	15.79
028.0	063.0000	0196.7	059.2	131.9	000.0241	0045.4	077.2	15.55
029.0	063.0000	0194.1	058.9	131.9	000.0241	0045.4	078.2	15.31
030.0	063.0000	0199.2	059.4	131.4	000.0241	0044.8	079.2	15.06
031.0	063.0000	0192.2	058.8	131.7	000.0241	0045.2	080.3	14.82
032.0	063.0000	0187.2	058.3	131.9	000.0241	0045.4	081.4	14.59
033.0	063.0000	0193.5	058.9	131.4	000.0241	0044.8	082.3	14.34
034.0	063.0000	0193.9	058.9	131.2	000.0240	0044.8	083.3	14.10
035.0	063.0000	0196.5	059.2	131.0	000.0240	0045.1	084.3	13.89
036.0	063.0000	0204.4	059.9	130.5	000.0239	0044.3	085.3	13.60
037.0	063.0000	0210.6	060.4	130.0	000.0239	0041.7	086.3	13.22
038.0	063.0000	0218.7	061.1	129.5	000.0238	0039.3	087.3	12.85
039.0	063.0000	0221.1	061.3	129.4	000.0238	0038.6	088.4	12.57
040.0	063.0000	0223.6	061.6	129.2	000.0238	0037.8	089.4	12.29
041.0	063.0000	0223.7	061.6	129.2	000.0238	0037.8	090.5	12.06
042.0	063.0000	0223.4	061.5	129.3	000.0238	0038.0	091.6	11.84
043.0	063.0000	0226.6	061.8	129.1	000.0238	0037.3	092.7	11.57

Figure 1-3
Minor Modification of K244DY

FMCommander Single Allocation Study - 07-25-2016 - NED 30 Meter
K244DY's Overlaps (In= 14.59 km, Out= 0.74 km)

K244DY CH 291 D DA
Lat= 47 36 58.6, Lng= 117 21 58.8
0.075 kW 195 m HAAT, 878 m COR
Prot.= 60 dBu, Intef.= 40 dBu

KOTF-LP CH 291 L1 BMPL20160629ABC
Lat= 47 47 21.0, Lng= 116 47 05.0
0.1 kW -68.1 m HAAT, 713.3 m COR
Prot.= 60 dBu, Intef.= 40 dBu

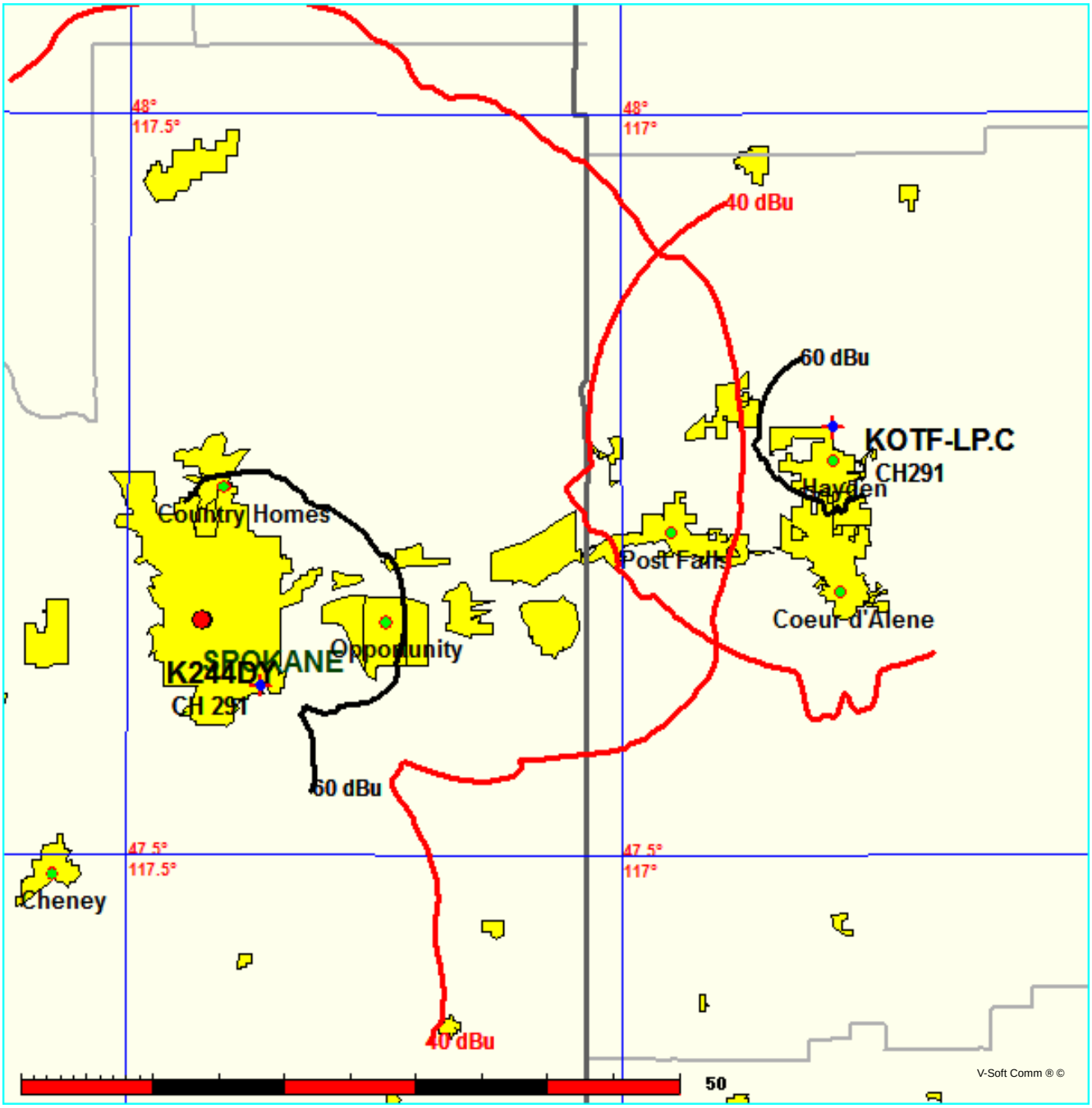


Figure 1-4

07-25-2016 Terrain Data: NED 30 Meter FMOver Analysis

K244DY

Channel = 291D
Max ERP = 0.075 kW
RCAMSL = 878 m
N. Lat. 47 36 58.6
W. Lng. 117 21 58.8
Protected
60 dBu

KOTF-LP BMPL20160629ABC

Channel = 291L1
Max ERP = 0.1 kW
RCAMSL = 713.3 m
N. Lat. 47 47 21.0
W. Lng. 116 47 05.0
Interfering
40 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
006.0	000.0732	0263.1	015.4	264.9	000.1000	0019.7	042.0	27.91	
007.0	000.0728	0261.4	015.4	264.7	000.1000	0020.1	041.8	27.99	
008.0	000.0725	0257.0	015.2	264.4	000.1000	0020.8	041.6	28.05	
009.0	000.0720	0250.7	015.0	264.0	000.1000	0021.7	041.4	28.11	
010.0	000.0716	0245.0	014.8	263.7	000.1000	0022.6	041.2	28.17	
011.0	000.0712	0244.6	014.7	263.5	000.1000	0023.2	040.9	28.24	
012.0	000.0707	0241.2	014.6	263.3	000.1000	0024.2	040.7	28.30	
013.0	000.0704	0237.4	014.5	263.0	000.1000	0025.4	040.5	28.37	
014.0	000.0700	0227.3	014.2	262.4	000.1000	0028.1	040.4	28.40	
015.0	000.0696	0221.1	013.9	262.0	000.1000	0029.1	040.3	28.45	
016.0	000.0690	0223.9	014.0	261.9	000.1000	0029.1	040.0	28.52	
017.0	000.0684	0223.0	013.9	261.7	000.1000	0029.3	039.8	28.59	
018.0	000.0678	0221.3	013.9	261.4	000.1000	0028.6	039.6	28.64	
019.0	000.0673	0226.3	014.0	261.4	000.1000	0028.6	039.4	28.73	
020.0	000.0667	0230.9	014.1	261.4	000.1000	0028.6	039.1	28.82	
021.0	000.0661	0232.8	014.1	261.3	000.1000	0028.4	038.9	28.89	
022.0	000.0656	0233.7	014.1	261.1	000.1000	0028.7	038.7	28.96	
023.0	000.0650	0232.2	014.1	260.8	000.1000	0029.1	038.5	29.02	
024.0	000.0644	0233.0	014.0	260.6	000.1000	0029.3	038.3	29.08	
025.0	000.0639	0233.5	014.0	260.4	000.1000	0030.3	038.1	29.20	
026.0	000.0631	0233.0	014.0	260.1	000.1000	0031.6	037.9	29.54	
027.0	000.0622	0230.4	013.9	259.7	000.1000	0032.4	037.8	29.75	
028.0	000.0614	0230.9	013.8	259.4	000.1000	0033.1	037.6	29.96	
029.0	000.0606	0230.9	013.8	259.2	000.1000	0034.3	037.5	30.26	
030.0	000.0597	0233.6	013.8	258.9	000.1000	0034.8	037.3	30.43	
031.0	000.0589	0234.4	013.8	258.7	000.1000	0035.4	037.1	30.62	
032.0	000.0581	0238.4	013.9	258.5	000.1000	0035.7	036.9	30.75	
033.0	000.0573	0238.7	013.8	258.2	000.1000	0036.1	036.8	30.88	
034.0	000.0565	0237.5	013.7	257.8	000.1000	0036.7	036.6	31.05	
035.0	000.0557	0238.9	013.7	257.5	000.1000	0037.0	036.5	31.17	
036.0	000.0548	0238.3	013.7	257.2	000.1000	0037.5	036.4	31.30	
037.0	000.0541	0237.6	013.6	256.8	000.1000	0037.4	036.3	31.33	
038.0	000.0532	0237.2	013.5	256.5	000.1000	0037.2	036.2	31.32	
039.0	000.0524	0237.4	013.5	256.1	000.1000	0037.0	036.1	31.32	
040.0	000.0515	0235.7	013.4	255.7	000.1000	0036.8	036.0	31.30	
041.0	000.0508	0235.4	013.3	255.4	000.1000	0036.6	035.9	31.30	
042.0	000.0501	0234.6	013.3	255.0	000.1000	0036.6	035.9	31.32	
043.0	000.0492	0234.3	013.2	254.7	000.1000	0036.5	035.8	31.33	
044.0	000.0484	0240.9	013.3	254.4	000.1000	0036.4	035.6	31.40	
045.0	000.0476	0251.0	013.5	254.3	000.1000	0036.4	035.3	31.50	
046.0	000.0468	0255.1	013.6	254.0	000.1000	0036.2	035.1	31.52	
047.0	000.0461	0256.9	013.6	253.6	000.1000	0035.9	035.0	31.50	
048.0	000.0453	0258.5	013.6	253.3	000.1000	0035.7	034.9	31.49	
049.0	000.0446	0259.9	013.6	252.9	000.1000	0035.4	034.8	31.47	
050.0	000.0438	0258.8	013.5	252.5	000.1000	0035.1	034.8	31.41	
051.0	000.0430	0258.1	013.4	252.1	000.1000	0034.8	034.8	31.34	
052.0	000.0423	0256.9	013.3	251.7	000.1000	0034.6	034.8	31.30	
053.0	000.0415	0255.3	013.2	251.3	000.1000	0034.5	034.8	31.27	
054.0	000.0408	0253.0	013.1	250.8	000.1000	0034.8	034.9	31.33	
055.0	000.0401	0252.4	013.0	250.5	000.1000	0035.1	034.9	31.38	
056.0	000.0394	0250.1	012.9	250.1	000.1000	0035.2	034.9	31.39	
057.0	000.0389	0247.9	012.8	249.7	000.1000	0035.2	035.0	31.37	
058.0	000.0383	0245.9	012.7	249.3	000.1000	0035.2	035.0	31.36	
059.0	000.0377	0243.3	012.6	248.9	000.1000	0035.2	035.1	31.32	

Figure 1-4

060.0	000.0372	0241.2	012.5	248.5	000.1000	0035.0	035.1	31.26
061.0	000.0365	0239.6	012.4	248.1	000.1000	0034.9	035.2	31.22
062.0	000.0359	0238.3	012.3	247.8	000.1000	0034.8	035.3	31.17
063.0	000.0354	0236.5	012.3	247.4	000.1000	0034.7	035.3	31.13
064.0	000.0349	0235.2	012.2	247.1	000.1000	0034.6	035.4	31.08
065.0	000.0343	0233.0	012.1	246.7	000.1000	0034.0	035.5	30.91
066.0	000.0338	0229.9	012.0	246.4	000.1000	0033.0	035.6	30.66
067.0	000.0333	0226.8	011.8	246.0	000.1000	0032.3	035.7	30.47
068.0	000.0329	0224.6	011.8	245.7	000.1000	0031.9	035.8	30.34
069.0	000.0324	0222.9	011.7	245.4	000.1000	0031.6	035.9	30.24
070.0	000.0319	0222.1	011.6	245.1	000.1000	0031.3	036.0	30.16
071.0	000.0314	0220.6	011.5	244.8	000.1000	0031.3	036.1	30.11
072.0	000.0309	0218.7	011.4	244.5	000.1000	0031.3	036.2	30.07
073.0	000.0305	0215.4	011.3	244.2	000.1000	0031.2	036.4	30.01
074.0	000.0301	0211.8	011.2	243.9	000.1000	0031.2	036.5	29.94
075.0	000.0296	0209.0	011.1	243.7	000.1000	0031.2	036.7	29.89
076.0	000.0293	0207.8	011.0	243.4	000.1000	0031.1	036.8	29.83
077.0	000.0289	0203.9	010.9	243.1	000.1000	0031.0	037.0	29.76
078.0	000.0286	0201.3	010.8	242.9	000.1000	0031.0	037.1	29.71
079.0	000.0283	0198.4	010.7	242.7	000.1000	0031.0	037.2	29.65
080.0	000.0280	0195.4	010.6	242.4	000.1000	0030.9	037.4	29.57
081.0	000.0277	0193.5	010.5	242.2	000.1000	0031.0	037.5	29.54
082.0	000.0274	0191.8	010.4	242.0	000.1000	0031.0	037.7	29.52
083.0	000.0271	0193.8	010.5	241.7	000.1000	0031.0	037.7	29.50
084.0	000.0267	0195.6	010.5	241.5	000.1000	0031.1	037.8	29.50
085.0	000.0265	0196.3	010.5	241.2	000.1000	0031.2	037.8	29.50
086.0	000.0263	0196.5	010.4	241.0	000.1000	0031.3	037.9	29.48
087.0	000.0260	0196.5	010.4	240.7	000.1000	0031.3	038.0	29.45
088.0	000.0258	0193.8	010.3	240.6	000.1000	0031.4	038.2	29.41
089.0	000.0257	0191.9	010.3	240.4	000.1000	0031.4	038.3	29.36
090.0	000.0254	0188.6	010.2	240.2	000.1000	0031.5	038.5	29.32
091.0	000.0252	0183.0	010.0	240.1	000.1000	0031.5	038.8	29.24
092.0	000.0251	0179.7	009.9	240.0	000.1000	0031.4	038.9	29.18
093.0	000.0249	0173.4	009.7	239.9	000.1000	0031.5	039.2	29.09
094.0	000.0246	0169.5	009.6	239.8	000.1000	0031.5	039.4	29.03
095.0	000.0245	0164.0	009.4	239.8	000.1000	0031.5	039.6	28.95
096.0	000.0244	0158.9	009.2	239.8	000.1000	0031.5	039.9	28.88
097.0	000.0242	0153.6	009.0	239.7	000.1000	0031.5	040.1	28.80
098.0	000.0241	0147.9	008.8	239.7	000.1000	0031.5	040.4	28.72
099.0	000.0240	0139.5	008.5	239.8	000.1000	0031.5	040.7	28.62
100.0	000.0239	0135.4	008.4	239.8	000.1000	0031.5	040.9	28.55
101.0	000.0238	0122.8	008.0	240.0	000.1000	0031.5	041.3	28.42
102.0	000.0237	0110.3	007.6	240.3	000.1000	0031.5	041.7	28.30
103.0	000.0236	0099.4	007.2	240.5	000.1000	0031.4	042.1	28.17
104.0	000.0234	0091.0	006.8	240.7	000.1000	0031.3	042.4	28.07
105.0	000.0234	0084.1	006.6	240.8	000.1000	0031.3	042.7	27.99
106.0	000.0234	0075.3	006.2	241.1	000.1000	0031.3	043.0	27.89
107.0	000.0233	0076.7	006.3	240.9	000.1000	0031.3	043.1	27.88
108.0	000.0233	0077.1	006.3	240.8	000.1000	0031.3	043.1	27.86
109.0	000.0232	0075.6	006.2	240.8	000.1000	0031.3	043.2	27.82
110.0	000.0232	0075.0	006.2	240.7	000.1000	0031.3	043.3	27.79
111.0	000.0231	0070.9	006.0	240.8	000.1000	0031.3	043.5	27.74
112.0	000.0230	0066.7	005.8	240.9	000.1000	0031.3	043.7	27.69
113.0	000.0230	0063.3	005.7	240.9	000.1000	0031.3	043.9	27.64
114.0	000.0229	0060.3	005.6	241.0	000.1000	0031.3	044.0	27.60
115.0	000.0229	0054.0	005.3	241.2	000.1000	0031.2	044.3	27.52
116.0	000.0229	0049.5	005.0	241.4	000.1000	0031.1	044.5	27.44
117.0	000.0230	0041.5	004.6	241.8	000.1000	0031.0	044.8	27.33
118.0	000.0230	0030.2	003.9	242.5	000.1000	0030.9	045.3	27.19
119.0	000.0231	0018.7	003.9	242.5	000.1000	0030.9	045.3	27.17
120.0	000.0232	0011.0	003.9	242.4	000.1000	0030.9	045.4	27.16
121.0	000.0232	0006.4	003.9	242.4	000.1000	0030.9	045.5	27.15
122.0	000.0233	0005.0	003.9	242.3	000.1000	0030.9	045.5	27.14
123.0	000.0233	0005.6	003.9	242.3	000.1000	0030.9	045.6	27.12
124.0	000.0234	0008.7	003.9	242.2	000.1000	0030.9	045.6	27.11
125.0	000.0234	0016.0	003.9	242.2	000.1000	0031.0	045.7	27.10

Figure 1-4

KOTF-LP BMPL20160629ABC

Channel = 291L1
Max ERP = 0.1 kW
RCAMSL = 713.3 m
N. Lat. 47 47 21.0
W. Lng. 116 47 05.0
Protected
60 dBu

K244DY

Channel = 291D
Max ERP = 0.075 kW
RCAMSL = 878 m
N. Lat. 47 36 58.6
W. Lng. 117 21 58.8
Interfering
40 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
186.0	000.1000	0038.3	006.3	073.0	000.0305	0215.4	044.8	36.80	
187.0	000.1000	0034.3	006.0	072.6	000.0307	0217.0	044.8	36.88	
188.0	000.1000	0031.3	005.7	072.2	000.0308	0218.0	044.8	36.95	
189.0	000.1000	0023.4	005.6	072.0	000.0309	0218.5	044.8	37.00	
190.0	000.1000	0016.5	005.6	072.0	000.0309	0218.7	044.7	37.05	
191.0	000.1000	0010.4	005.6	071.9	000.0309	0218.9	044.6	37.10	
192.0	000.1000	0008.0	005.6	071.9	000.0310	0219.0	044.5	37.14	
193.0	000.1000	0012.4	005.6	071.8	000.0310	0219.2	044.4	37.19	
194.0	000.1000	0015.5	005.6	071.7	000.0310	0219.3	044.4	37.24	
195.0	000.1000	0014.2	005.6	071.7	000.0311	0219.5	044.3	37.29	
196.0	000.1000	0012.1	005.6	071.6	000.0311	0219.6	044.2	37.33	
197.0	000.1000	0015.3	005.6	071.5	000.0311	0219.7	044.1	37.38	
198.0	000.1000	0008.6	005.6	071.4	000.0312	0219.9	044.0	37.42	
199.0	000.1000	0004.7	005.6	071.4	000.0312	0220.1	044.0	37.47	
200.0	000.1000	0000.6	005.6	071.3	000.0313	0220.2	043.9	37.52	
201.0	000.1000	-0002.4	005.6	071.2	000.0313	0220.3	043.8	37.56	
202.0	000.1000	-0005.3	005.6	071.1	000.0313	0220.5	043.7	37.60	
203.0	000.1000	-0005.1	005.6	071.0	000.0314	0220.6	043.6	37.65	
204.0	000.1000	-0005.0	005.6	071.0	000.0314	0220.7	043.6	37.69	
205.0	000.1000	-0004.0	005.6	070.9	000.0315	0220.8	043.5	37.73	
206.0	000.1000	-0006.4	005.6	070.8	000.0315	0220.9	043.4	37.77	
207.0	000.1000	-0014.2	005.6	070.7	000.0315	0221.1	043.4	37.82	
208.0	000.1000	-0018.7	005.6	070.6	000.0316	0221.2	043.3	37.86	
209.0	000.1000	-0019.4	005.6	070.5	000.0316	0221.3	043.2	37.90	
210.0	000.1000	-0020.7	005.6	070.4	000.0317	0221.4	043.2	37.94	
211.0	000.1000	-0026.3	005.6	070.3	000.0317	0221.6	043.1	37.98	
212.0	000.1000	-0023.6	005.6	070.2	000.0318	0221.8	043.0	38.02	
213.0	000.1000	-0012.2	005.6	070.1	000.0318	0221.9	043.0	38.06	
214.0	000.1000	-0003.4	005.6	070.0	000.0319	0222.1	042.9	38.11	
215.0	000.1000	0003.4	005.6	069.9	000.0319	0222.2	042.9	38.14	
216.0	000.1000	0011.0	005.6	069.8	000.0320	0222.3	042.8	38.18	
217.0	000.1000	0018.4	005.6	069.7	000.0320	0222.4	042.8	38.22	
218.0	000.1000	0019.2	005.6	069.6	000.0321	0222.5	042.7	38.25	
219.0	000.1000	0019.6	005.6	069.4	000.0322	0222.6	042.6	38.29	
220.0	000.1000	0021.9	005.6	069.3	000.0322	0222.7	042.6	38.32	
221.0	000.1000	0020.5	005.6	069.2	000.0323	0222.7	042.5	38.35	
222.0	000.1000	0020.6	005.6	069.1	000.0323	0222.9	042.5	38.38	
223.0	000.1000	0021.7	005.6	069.0	000.0324	0223.0	042.5	38.42	
224.0	000.1000	0026.0	005.6	068.9	000.0324	0223.1	042.4	38.45	
225.0	000.1000	0025.0	005.6	068.7	000.0325	0223.2	042.4	38.48	
226.0	000.1000	0025.5	005.6	068.6	000.0326	0223.4	042.3	38.51	
227.0	000.1000	0028.3	005.6	068.5	000.0326	0223.6	042.3	38.55	
228.0	000.1000	0031.7	005.8	068.4	000.0327	0223.8	042.1	38.63	
229.0	000.1000	0032.6	005.8	068.3	000.0327	0224.0	042.0	38.69	
230.0	000.1000	0032.9	005.9	068.2	000.0328	0224.2	042.0	38.74	
231.0	000.1000	0032.6	005.9	068.1	000.0328	0224.5	042.0	38.76	
232.0	000.1000	0032.3	005.8	067.9	000.0329	0224.8	042.0	38.79	
233.0	000.1000	0032.0	005.8	067.8	000.0330	0225.2	041.9	38.82	
234.0	000.1000	0032.6	005.8	067.7	000.0330	0225.5	041.9	38.87	
235.0	000.1000	0032.4	005.8	067.5	000.0331	0225.9	041.9	38.89	
236.0	000.1000	0032.7	005.9	067.4	000.0331	0226.2	041.8	38.93	
237.0	000.1000	0033.4	005.9	067.3	000.0332	0226.4	041.7	38.99	
238.0	000.1000	0032.2	005.8	067.1	000.0332	0226.7	041.8	38.97	
239.0	000.1000	0031.8	005.8	067.0	000.0333	0226.9	041.8	38.98	
240.0	000.1000	0031.5	005.8	066.8	000.0334	0227.1	041.9	38.99	
241.0	000.1000	0031.3	005.7	066.7	000.0334	0227.4	041.9	39.01	

Figure 1-4

242.0	000.1000	0031.0	005.7	066.6	000.0335	0227.8	041.9	39.03
243.0	000.1000	0031.0	005.7	066.4	000.0336	0228.3	041.9	39.07
244.0	000.1000	0031.2	005.7	066.3	000.0336	0228.8	041.8	39.10
245.0	000.1000	0031.3	005.7	066.1	000.0337	0229.3	041.8	39.14
246.0	000.1000	0032.3	005.8	066.0	000.0338	0229.8	041.7	39.21
247.0	000.1000	0034.5	006.0	065.9	000.0338	0230.3	041.6	39.32
248.0	000.1000	0034.9	006.0	065.7	000.0339	0230.8	041.5	39.36
249.0	000.1000	0035.2	006.1	065.6	000.0340	0231.2	041.5	39.40
250.0	000.1000	0035.2	006.1	065.4	000.0341	0231.7	041.5	39.42
251.0	000.1000	0034.8	006.0	065.3	000.0341	0232.2	041.6	39.43
252.0	000.1000	0034.7	006.0	065.1	000.0342	0232.8	041.6	39.46
253.0	000.1000	0035.5	006.1	065.0	000.0343	0233.1	041.5	39.50
254.0	000.1000	0036.2	006.1	064.8	000.0344	0233.4	041.5	39.55
255.0	000.1000	0036.6	006.2	064.7	000.0345	0233.9	041.5	39.59
256.0	000.1000	0036.9	006.2	064.5	000.0346	0234.3	041.5	39.62
257.0	000.1000	0037.5	006.2	064.4	000.0347	0235.0	041.4	39.67
258.0	000.1000	0036.4	006.2	064.2	000.0347	0235.2	041.6	39.63
259.0	000.1000	0034.6	006.0	064.2	000.0348	0235.3	041.7	39.57
260.0	000.1000	0031.8	005.8	064.1	000.0348	0235.3	042.0	39.47
261.0	000.1000	0028.8	005.6	064.0	000.0349	0235.2	042.1	39.39
262.0	000.1000	0029.1	005.6	063.9	000.0349	0235.2	042.2	39.39
263.0	000.1000	0025.2	005.6	063.8	000.0350	0235.3	042.2	39.38
264.0	000.1000	0021.8	005.6	063.6	000.0351	0235.4	042.2	39.38
265.0	000.1000	0019.6	005.6	063.5	000.0351	0235.5	042.3	39.38
266.0	000.1000	0018.7	005.6	063.4	000.0352	0235.6	042.3	39.38
267.0	000.1000	0017.4	005.6	063.3	000.0353	0235.9	042.3	39.38
268.0	000.1000	0016.6	005.6	063.1	000.0353	0236.2	042.4	39.38
269.0	000.1000	0015.3	005.6	063.0	000.0354	0236.4	042.4	39.38
270.0	000.1000	0012.4	005.6	062.9	000.0354	0236.6	042.5	39.38
271.0	000.1000	0011.1	005.6	062.8	000.0355	0236.9	042.5	39.37
272.0	000.1000	0006.5	005.6	062.7	000.0356	0237.1	042.6	39.37
273.0	000.1000	0002.4	005.6	062.6	000.0356	0237.3	042.6	39.36
274.0	000.1000	-0001.1	005.6	062.4	000.0357	0237.4	042.7	39.35
275.0	000.1000	-0008.6	005.6	062.3	000.0357	0237.6	042.7	39.34
276.0	000.1000	-0012.8	005.6	062.2	000.0358	0237.8	042.8	39.33
277.0	000.1000	-0019.7	005.6	062.1	000.0359	0238.1	042.8	39.33
278.0	000.1000	-0020.7	005.6	062.0	000.0359	0238.3	042.9	39.32
279.0	000.1000	-0020.7	005.6	061.9	000.0360	0238.5	042.9	39.31
280.0	000.1000	-0023.5	005.6	061.8	000.0360	0238.6	043.0	39.29
281.0	000.1000	-0027.8	005.6	061.7	000.0361	0238.7	043.1	39.28
282.0	000.1000	-0032.9	005.6	061.6	000.0362	0238.8	043.1	39.26
283.0	000.1000	-0044.1	005.6	061.5	000.0362	0238.9	043.2	39.25
284.0	000.1000	-0048.7	005.6	061.4	000.0363	0239.0	043.2	39.23
285.0	000.1000	-0050.3	005.6	061.3	000.0364	0239.0	043.3	39.21
286.0	000.1000	-0060.7	005.6	061.2	000.0364	0239.2	043.4	39.19
287.0	000.1000	-0071.0	005.6	061.1	000.0365	0239.4	043.4	39.17
288.0	000.1000	-0082.2	005.6	061.0	000.0365	0239.6	043.5	39.16
289.0	000.1000	-0095.0	005.6	060.9	000.0366	0239.7	043.6	39.14
290.0	000.1000	-0106.5	005.6	060.8	000.0366	0239.8	043.7	39.12
291.0	000.1000	-0121.2	005.6	060.8	000.0367	0240.0	043.7	39.10
292.0	000.1000	-0133.9	005.6	060.7	000.0367	0240.1	043.8	39.08
293.0	000.1000	-0145.5	005.6	060.6	000.0368	0240.3	043.9	39.05
294.0	000.1000	-0155.2	005.6	060.5	000.0368	0240.4	044.0	39.03
295.0	000.1000	-0166.7	005.6	060.4	000.0369	0240.6	044.1	39.01
296.0	000.1000	-0193.7	005.6	060.4	000.0369	0240.8	044.1	38.99
297.0	000.1000	-0209.7	005.6	060.3	000.0370	0240.9	044.2	38.96
298.0	000.1000	-0216.7	005.6	060.2	000.0370	0241.0	044.3	38.94
299.0	000.1000	-0217.2	005.6	060.2	000.0371	0241.1	044.4	38.91
300.0	000.1000	-0211.2	005.6	060.1	000.0371	0241.1	044.5	38.88
301.0	000.1000	-0205.4	005.6	060.0	000.0372	0241.2	044.5	38.85
302.0	000.1000	-0202.9	005.6	060.0	000.0372	0241.3	044.6	38.82
303.0	000.1000	-0198.1	005.6	059.9	000.0372	0241.4	044.7	38.79
304.0	000.1000	-0188.0	005.6	059.9	000.0372	0241.5	044.8	38.76
305.0	000.1000	-0172.9	005.6	059.8	000.0373	0241.6	044.9	38.73

Figure 2

K244DY Spokane, WA
74.1204(d) Showing
Translator or LPFM Maximum Licensed ERP = 0.075
Translator or LPFM Antenna Height AG = 170 Meters
K244DY Antenna Model = BKG77

Protected Station's Contour = 108.7874 dBu
Translator's or LPFM's full Interference contour 148.7874

Review Azimuth = 0 Degrees True
Relative Field on the horizon at Review Azimuth = 0.995
Translator/LPFM ERP on the horizon at Review Azimuth = 0.074 kW
Distance between stations = 6.7 km
Protected Station= KZBD, 100 kW, 1304 M Meters COR AMSL

Depression Angle From Horizon(Deg)	Vertical Relative Field	Horizontal Relative Field	ERP (kw)	Dist to IX Contour Along Dep. Angle(m)	Dist to IX Contour From Tower Base(m)	Height IX Above Ground (m)
00.00	1.0	1.0	0.0746	002.2033	002.2033	170.000
01.00	1.0	1.0	0.0746	002.2033	002.2030	169.962
02.00	1.0	1.0	0.0746	002.2033	002.2020	169.923
03.00	0.999	1.0	0.0745	002.2011	002.1981	169.885
04.00	0.999	1.0	0.0745	002.2011	002.1957	169.846
05.00	0.999	1.0	0.0745	002.2011	002.1927	169.808
06.00	0.999	1.0	0.0745	002.2011	002.1890	169.770
07.00	0.995	1.0	0.0739	002.1923	002.1759	169.733
08.00	0.991	1.0	0.0733	002.1835	002.1622	169.696
09.00	0.987	1.0	0.0727	002.1746	002.1479	169.660
10.00	0.982	1.0	0.0720	002.1636	002.1308	169.624
11.00	0.977	1.0	0.0712	002.1526	002.1131	169.589
12.00	0.972	1.0	0.0705	002.1416	002.0948	169.555
13.00	0.966	1.0	0.0696	002.1284	002.0738	169.521
14.00	0.96	1.0	0.0688	002.1152	002.0523	169.488
15.00	0.954	1.0	0.0679	002.1019	002.0303	169.456
16.00	0.947	1.0	0.0669	002.0865	002.0057	169.425
17.00	0.941	1.0	0.0661	002.0733	001.9827	169.394
18.00	0.934	1.0	0.0651	002.0579	001.9572	169.364
19.00	0.926	1.0	0.0640	002.0402	001.9291	169.336
20.00	0.918	1.0	0.0629	002.0226	001.9006	169.308
21.00	0.91	1.0	0.0618	002.0050	001.8718	169.281
22.00	0.9	1.0	0.0604	001.9830	001.8386	169.257
23.00	0.891	1.0	0.0592	001.9631	001.8071	169.233
24.00	0.881	1.0	0.0579	001.9411	001.7733	169.210

25.00	0.872	1.0	0.0567	001.9213	001.7413	169.188
26.00	0.862	1.0	0.0554	001.8992	001.7070	169.167
27.00	0.852	1.0	0.0542	001.8772	001.6726	169.148
28.00	0.84	1.0	0.0527	001.8508	001.6341	169.131
29.00	0.829	1.0	0.0513	001.8265	001.5975	169.114
30.00	0.818	1.0	0.0499	001.8023	001.5608	169.099
31.00	0.806	1.0	0.0485	001.7759	001.5222	169.085
32.00	0.795	1.0	0.0472	001.7516	001.4855	169.072
33.00	0.783	1.0	0.0458	001.7252	001.4469	169.060
34.00	0.771	1.0	0.0444	001.6987	001.4083	169.050
35.00	0.758	1.0	0.0429	001.6701	001.3681	169.042
36.00	0.745	1.0	0.0414	001.6415	001.3280	169.035
37.00	0.732	1.0	0.0400	001.6128	001.2880	169.029
38.00	0.719	1.0	0.0386	001.5842	001.2483	169.025
39.00	0.706	1.0	0.0372	001.5555	001.2089	169.021
40.00	0.691	1.0	0.0356	001.5225	001.1663	169.021
41.00	0.676	1.0	0.0341	001.4894	001.1241	169.023
42.00	0.661	1.0	0.0326	001.4564	001.0823	169.025
43.00	0.646	1.0	0.0311	001.4233	001.0410	169.029
44.00	0.631	1.0	0.0297	001.3903	001.0001	169.034
45.00	0.616	1.0	0.0283	001.3572	000.9597	169.040
46.00	0.6	1.0	0.0269	001.3220	000.9183	169.049
47.00	0.584	1.0	0.0255	001.2867	000.8775	169.059
48.00	0.568	1.0	0.0241	001.2515	000.8374	169.070
49.00	0.553	1.0	0.0228	001.2184	000.7994	169.080
50.00	0.538	1.0	0.0216	001.1854	000.7619	169.092
51.00	0.523	1.0	0.0204	001.1523	000.7252	169.104
52.00	0.508	1.0	0.0193	001.1193	000.6891	169.118
53.00	0.494	1.0	0.0182	001.0884	000.6550	169.131
54.00	0.479	1.0	0.0171	001.0554	000.6203	169.146
55.00	0.465	1.0	0.0161	001.0245	000.5876	169.161
56.00	0.45	1.0	0.0151	000.9915	000.5544	169.178
57.00	0.436	1.0	0.0142	000.9606	000.5232	169.194
58.00	0.421	1.0	0.0132	000.9276	000.4915	169.213
59.00	0.406	1.0	0.0123	000.8945	000.4607	169.233
60.00	0.391	1.0	0.0114	000.8615	000.4307	169.254
61.00	0.376	1.0	0.0106	000.8284	000.4016	169.275
62.00	0.361	1.0	0.0097	000.7954	000.3734	169.298
63.00	0.345	1.0	0.0089	000.7601	000.3451	169.323
64.00	0.329	1.0	0.0081	000.7249	000.3178	169.348
65.00	0.313	1.0	0.0073	000.6896	000.2915	169.375
66.00	0.297	1.0	0.0066	000.6544	000.2662	169.402
67.00	0.282	1.0	0.0059	000.6213	000.2428	169.428
68.00	0.268	1.0	0.0054	000.5905	000.2212	169.453
69.00	0.246	1.0	0.0045	000.5420	000.1942	169.494
70.00	0.239	1.0	0.0043	000.5266	000.1801	169.505

71.00	0.225	1.0	0.0038	000.4957	000.1614	169.531
72.00	0.225	1.0	0.0038	000.4957	000.1532	169.529
73.00	0.199	1.0	0.0030	000.4385	000.1282	169.581
74.00	0.188	1.0	0.0026	000.4142	000.1142	169.602
75.00	0.176	1.0	0.0023	000.3878	000.1004	169.625
76.00	0.166	1.0	0.0021	000.3657	000.0885	169.645
77.00	0.155	1.0	0.0018	000.3415	000.0768	169.667
78.00	0.145	1.0	0.0016	000.3195	000.0664	169.688
79.00	0.137	1.0	0.0014	000.3019	000.0576	169.704
80.00	0.129	1.0	0.0012	000.2842	000.0494	169.720
81.00	0.12	1.0	0.0011	000.2644	000.0414	169.739
82.00	0.115	1.0	0.0010	000.2534	000.0353	169.749
83.00	0.11	1.0	0.0009	000.2424	000.0295	169.759
84.00	0.105	1.0	0.0008	000.2313	000.0242	169.770
85.00	0.103	1.0	0.0008	000.2269	000.0198	169.774
86.00	0.102	1.0	0.0008	000.2247	000.0157	169.776
87.00	0.1	1.0	0.0007	000.2203	000.0115	169.780
88.00	0.102	1.0	0.0008	000.2247	000.0078	169.775
89.00	0.104	1.0	0.0008	000.2291	000.0040	169.771
90.00	0.105	1.0	0.0008	000.2313	000.0000	169.769

Figure 2-1

K244DY Spokane, WA
74.1204(d) Showing
Translator or LPFM Maximum Licensed ERP = 0.075
Translator or LPFM Antenna Height AG = 170 Meters
K244DY Antenna Model = BKG77

Protected Station's Contour = 78.98211 dBu
Translator's or LPFM's full Interference contour 118.98211

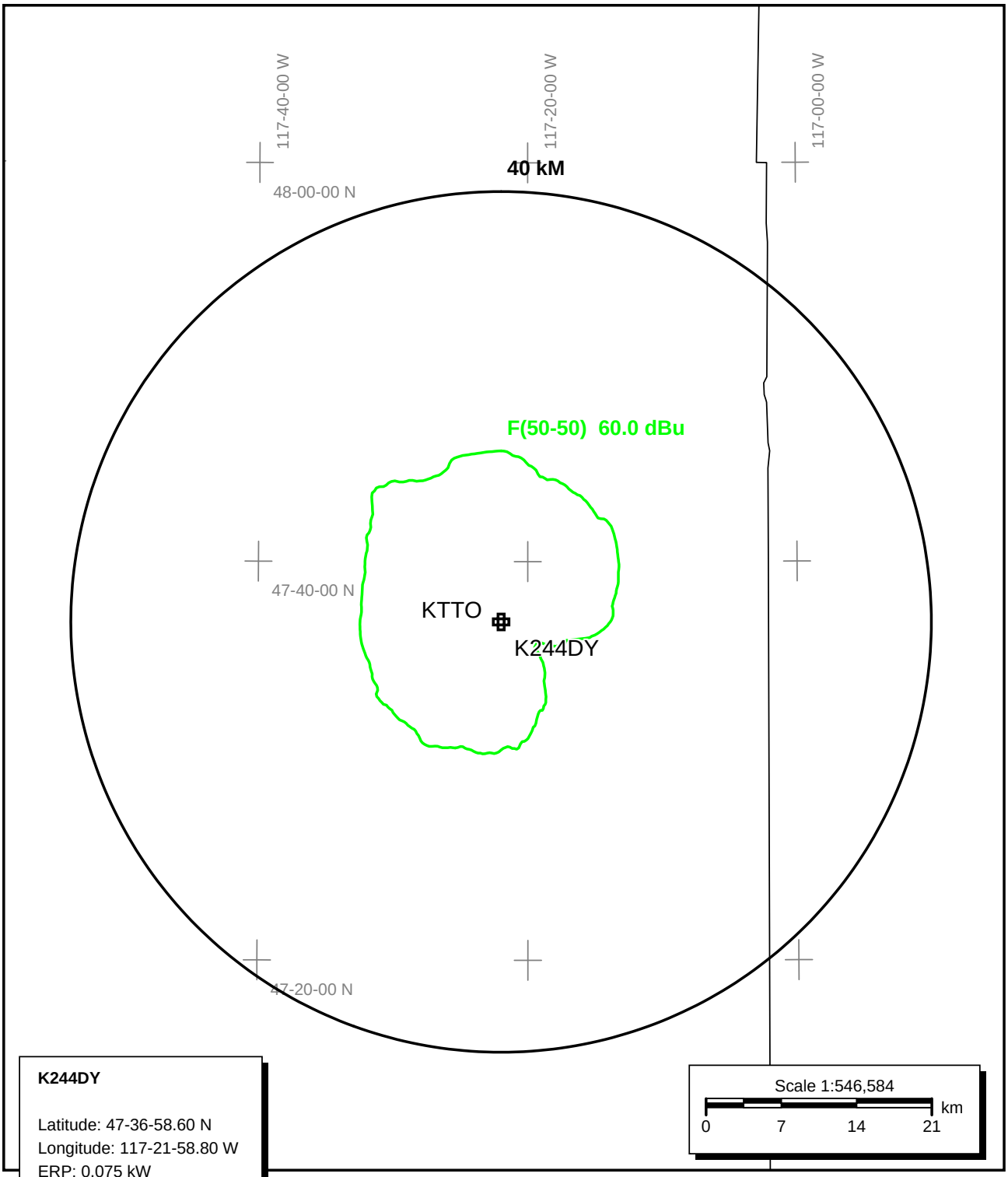
Review Azimuth = 0 Degrees True
Relative Field on the horizon at Review Azimuth = 0.995
Translator/LPFM ERP on the horizon at Review Azimuth = 0.074 kW
Distance between stations = 9.0 km
Protected Station= KSPO, 2.25 kW, 802 M Meters COR AMSL

Depression Angle From Horizon(Deg)	Vertical Relative Field	Horizontal Relative Field	ERP (kw)	Dist to IX Contour Along Dep. Angle(m)	Dist to IX Contour From Tower Base(m)	Height IX Above Ground (m)
00.00	1.0	1.0	0.0746	068.1297	068.1297	170.000
01.00	1.0	1.0	0.0746	068.1297	068.1194	168.811
02.00	1.0	1.0	0.0746	068.1297	068.0882	167.622
03.00	0.999	1.0	0.0745	068.0616	067.9683	166.438
04.00	0.999	1.0	0.0745	068.0616	067.8958	165.252
05.00	0.999	1.0	0.0745	068.0616	067.8026	164.068
06.00	0.999	1.0	0.0745	068.0616	067.6888	162.886
07.00	0.995	1.0	0.0739	067.7891	067.2838	161.739
08.00	0.991	1.0	0.0733	067.5166	066.8595	160.604
09.00	0.987	1.0	0.0727	067.2440	066.4162	159.481
10.00	0.982	1.0	0.0720	066.9034	065.8870	158.382
11.00	0.977	1.0	0.0712	066.5627	065.3398	157.299
12.00	0.972	1.0	0.0705	066.2221	064.7750	156.232
13.00	0.966	1.0	0.0696	065.8133	064.1265	155.195
14.00	0.96	1.0	0.0688	065.4045	063.4617	154.177
15.00	0.954	1.0	0.0679	064.9958	062.7811	153.178
16.00	0.947	1.0	0.0669	064.5189	062.0195	152.216
17.00	0.941	1.0	0.0661	064.1101	061.3088	151.256
18.00	0.934	1.0	0.0651	063.6332	060.5187	150.336
19.00	0.926	1.0	0.0640	063.0881	059.6510	149.461
20.00	0.918	1.0	0.0629	062.5431	058.7713	148.609
21.00	0.91	1.0	0.0618	061.9981	057.8802	147.782
22.00	0.9	1.0	0.0604	061.3168	056.8519	147.030
23.00	0.891	1.0	0.0592	060.7036	055.8779	146.281
24.00	0.881	1.0	0.0579	060.0223	054.8331	145.587

25.00	0.872	1.0	0.0567	059.4091	053.8430	144.893
26.00	0.862	1.0	0.0554	058.7278	052.7842	144.255
27.00	0.852	1.0	0.0542	058.0465	051.7198	143.647
28.00	0.84	1.0	0.0527	057.2290	050.5302	143.133
29.00	0.829	1.0	0.0513	056.4795	049.3981	142.618
30.00	0.818	1.0	0.0499	055.7301	048.2637	142.135
31.00	0.806	1.0	0.0485	054.9126	047.0693	141.718
32.00	0.795	1.0	0.0472	054.1631	045.9329	141.298
33.00	0.783	1.0	0.0458	053.3456	044.7394	140.946
34.00	0.771	1.0	0.0444	052.5280	043.5477	140.627
35.00	0.758	1.0	0.0429	051.6423	042.3029	140.379
36.00	0.745	1.0	0.0414	050.7566	041.0630	140.166
37.00	0.732	1.0	0.0400	049.8710	039.8287	139.987
38.00	0.719	1.0	0.0386	048.9853	038.6009	139.842
39.00	0.706	1.0	0.0372	048.0996	037.3804	139.730
40.00	0.691	1.0	0.0356	047.0776	036.0636	139.739
41.00	0.676	1.0	0.0341	046.0557	034.7587	139.785
42.00	0.661	1.0	0.0326	045.0338	033.4666	139.867
43.00	0.646	1.0	0.0311	044.0118	032.1882	139.984
44.00	0.631	1.0	0.0297	042.9899	030.9243	140.137
45.00	0.616	1.0	0.0283	041.9679	029.6758	140.324
46.00	0.6	1.0	0.0269	040.8778	028.3961	140.595
47.00	0.584	1.0	0.0255	039.7878	027.1352	140.901
48.00	0.568	1.0	0.0241	038.6977	025.8938	141.242
49.00	0.553	1.0	0.0228	037.6757	024.7175	141.566
50.00	0.538	1.0	0.0216	036.6538	023.5606	141.922
51.00	0.523	1.0	0.0204	035.6318	022.4238	142.309
52.00	0.508	1.0	0.0193	034.6099	021.3080	142.727
53.00	0.494	1.0	0.0182	033.6561	020.2547	143.121
54.00	0.479	1.0	0.0171	032.6341	019.1819	143.598
55.00	0.465	1.0	0.0161	031.6803	018.1711	144.049
56.00	0.45	1.0	0.0151	030.6584	017.1439	144.583
57.00	0.436	1.0	0.0142	029.7046	016.1783	145.088
58.00	0.421	1.0	0.0132	028.6826	015.1995	145.676
59.00	0.406	1.0	0.0123	027.6607	014.2463	146.290
60.00	0.391	1.0	0.0114	026.6387	013.3194	146.930
61.00	0.376	1.0	0.0106	025.6168	012.4193	147.595
62.00	0.361	1.0	0.0097	024.5948	011.5466	148.284
63.00	0.345	1.0	0.0089	023.5048	010.6709	149.057
64.00	0.329	1.0	0.0081	022.4147	009.8259	149.854
65.00	0.313	1.0	0.0073	021.3246	009.0122	150.673
66.00	0.297	1.0	0.0066	020.2345	008.2301	151.515
67.00	0.282	1.0	0.0059	019.2126	007.5070	152.315
68.00	0.268	1.0	0.0054	018.2588	006.8399	153.071
69.00	0.246	1.0	0.0045	016.7599	006.0062	154.353
70.00	0.239	1.0	0.0043	016.2830	005.5691	154.699

71.00	0.225	1.0	0.0038	015.3292	004.9907	155.506
72.00	0.225	1.0	0.0038	015.3292	004.7370	155.421
73.00	0.199	1.0	0.0030	013.5578	003.9639	157.035
74.00	0.188	1.0	0.0026	012.8084	003.5305	157.688
75.00	0.176	1.0	0.0023	011.9908	003.1035	158.418
76.00	0.166	1.0	0.0021	011.3095	002.7360	159.026
77.00	0.155	1.0	0.0018	010.5601	002.3755	159.711
78.00	0.145	1.0	0.0016	009.8788	002.0539	160.337
79.00	0.137	1.0	0.0014	009.3338	001.7810	160.838
80.00	0.129	1.0	0.0012	008.7887	001.5261	161.345
81.00	0.12	1.0	0.0011	008.1756	001.2789	161.925
82.00	0.115	1.0	0.0010	007.8349	001.0904	162.241
83.00	0.11	1.0	0.0009	007.4943	000.9133	162.562
84.00	0.105	1.0	0.0008	007.1536	000.7478	162.886
85.00	0.103	1.0	0.0008	007.0174	000.6116	163.009
86.00	0.102	1.0	0.0008	006.9492	000.4848	163.068
87.00	0.1	1.0	0.0007	006.8130	000.3566	163.196
88.00	0.102	1.0	0.0008	006.9492	000.2425	163.055
89.00	0.104	1.0	0.0008	007.0855	000.1237	162.916
90.00	0.105	1.0	0.0008	007.1536	000.0000	162.846

Figure 3



K244DY

Latitude: 47-36-58.60 N
Longitude: 117-21-58.80 W
ERP: 0.075 kW
Channel: 291
Frequency: 106.1 MHz
AMSL Height: 878.0 m
Horiz. Pattern: Directional
Vert. Pattern: No
Prop Model: None

K244DY 07-25-2016 RMS(V)= .853

Graph is Relative Field

Azi	Field	dBk	kW
000	0.995	-11.293	0.074
010	0.977	-11.451	0.072
020	0.943	-11.759	0.067
030	0.892	-12.242	0.060
040	0.829	-12.878	0.052
050	0.764	-13.588	0.044
060	0.704	-14.298	0.037
070	0.652	-14.964	0.032
080	0.611	-15.529	0.028
090	0.582	-15.951	0.025
100	0.564	-16.224	0.024
110	0.556	-16.348	0.023
120	0.556	-16.348	0.023
130	0.564	-16.224	0.024
140	0.582	-15.951	0.025
150	0.611	-15.529	0.028
160	0.655	-14.925	0.032
170	0.710	-14.224	0.038
180	0.776	-13.452	0.045
190	0.856	-12.600	0.055
200	0.925	-11.927	0.064
210	0.963	-11.577	0.070
220	0.978	-11.443	0.072
230	0.992	-11.319	0.074
240	0.996	-11.284	0.074
250	0.990	-11.337	0.074
260	0.988	-11.354	0.073
270	0.985	-11.381	0.073
280	0.983	-11.398	0.072
290	0.983	-11.398	0.072
300	0.983	-11.398	0.072
310	0.983	-11.398	0.072
320	0.985	-11.381	0.073
330	0.988	-11.354	0.073
340	0.990	-11.337	0.074
350	0.996	-11.284	0.074