

CITY OF LICENSE
CALL LETTERS
FACILITY ID
PREPARED FOR
VERSION
JOB

Turner, OR
KMUZ
172599
Willamette Information, News, and Entertainment Service
3.0
111038

CONSOLIDATED

ENGINEERING EXHIBIT

FCC Form 340 - Section VII - FM Engineering

ENGINEERING STATEMENT
MINOR-MODIFICATION OF CONSTRUCTION PERMIT
BMPEd-20110609AAA
KMUZ, TURNER, OR

Willamette Information, News and Entertainment Service, Salem, OR

Willamette Information, News and Entertainment Service (WINES) hereby submits this minor-modification of Construction Permit, BMPEd-20110609AAA, KMUZ, Turner, OR. This minor-modification proposes to modify the antenna height, antenna pattern, and ERP of the CP. WINES is the assignee of this CP (BAPED-20110510ABK). The assignment consummation notice was filed 07/28/2011.

§73.7005(b) “HOLDING PERIOD” COMPLIANCE

WINES was granted an original CP on the basis of superior 307b qualifications, BNPED-20071015AHX, and is therefore constrained by the Holding Period provisions of §73.7005(b). This proposal is in full compliance with this Section. **As shown by Exhibits E-1 and E-2**, 100% of the census block centroids that were provided first or second NCE 60dBu service by the original Construction Permit, are also provided 60dBu service by this amended proposal.¹ In these exhibits, the census block centroids which would be provided first NCE service are color-coded green, while the centroids which would be provided second NCE service are blue.

The red centroids would not have first or second NCE service. As shown by the exhibits, all areas where the 60dBu contour of the CP extends farther than the 60dBu contour of this proposal, are uninhabited.

The population receiving first or second NCE service would increase from 8,703 to 14,321 with this proposal, an increase of 61%. The total population would increase from 16,253 to 22,338 - a 73% increase.

¹ The areas of first and second NCE service were determined using the “frozen” database of October 11, 2007- issued just prior to the 2007 NCE filing window.

BROWN BROADCAST SERVICES
INCORPORATED

Michael D. Brown

3740 S.W. Comus St.

Portland, Oregon 97219-7418

503-245-6065

Exhibit E1 - Fair Distribution of Service - Proposed vs. Original CP

Brown Broadcast Services, Inc.
Job: KMUZ 07052011db.fmj
Master Database: 2011_Jul_05.fmd
Lat: N44:47:00 Lon: W122:59:44 NAD-27
Scale: 1:166667
Channel: 203 Class: A

rfInvestigator Version 3.4.27
by rfSoftware, Inc.
Date: 7/26/2011 8:52:06 PM
Key:

Green = First Service
Blue = 2nd Service
Red = 3rd or Greater Service

The proposed KMUZ CP Modification covers 100% of the first and second service populated areas that were covered by the original Construction Permit, in compliance with §73.7005(b).

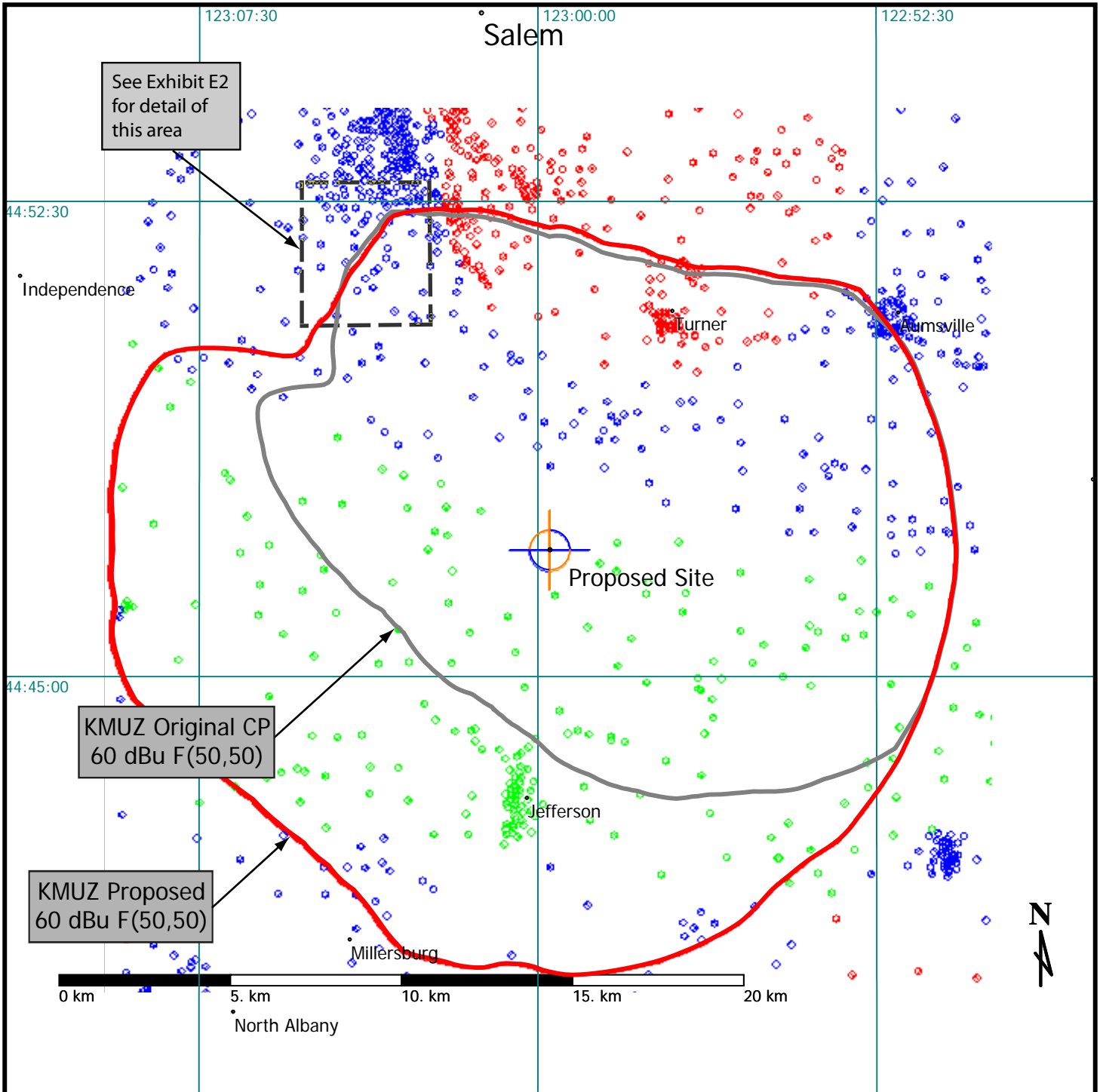


Exhibit E2 - Fair Distribution of Service Prop. vs. Original CP - Detail

Brown Broadcast Services, Inc.
Job: KMUZ 07052011db.fmj
Master Database: 2011_Jul_05.fmd
Lat: N44:51:56 Lon: W123:03:38 NAD-27
Scale: 1:20833
Channel: 203 Class: A

rfInvestigator Version 3.4.27
by rfSoftware, Inc.
Date: 7/26/2011 9:26:30 PM
Key:

Green = First Service
Blue = 2nd Service
Red = 3rd or Greater Service

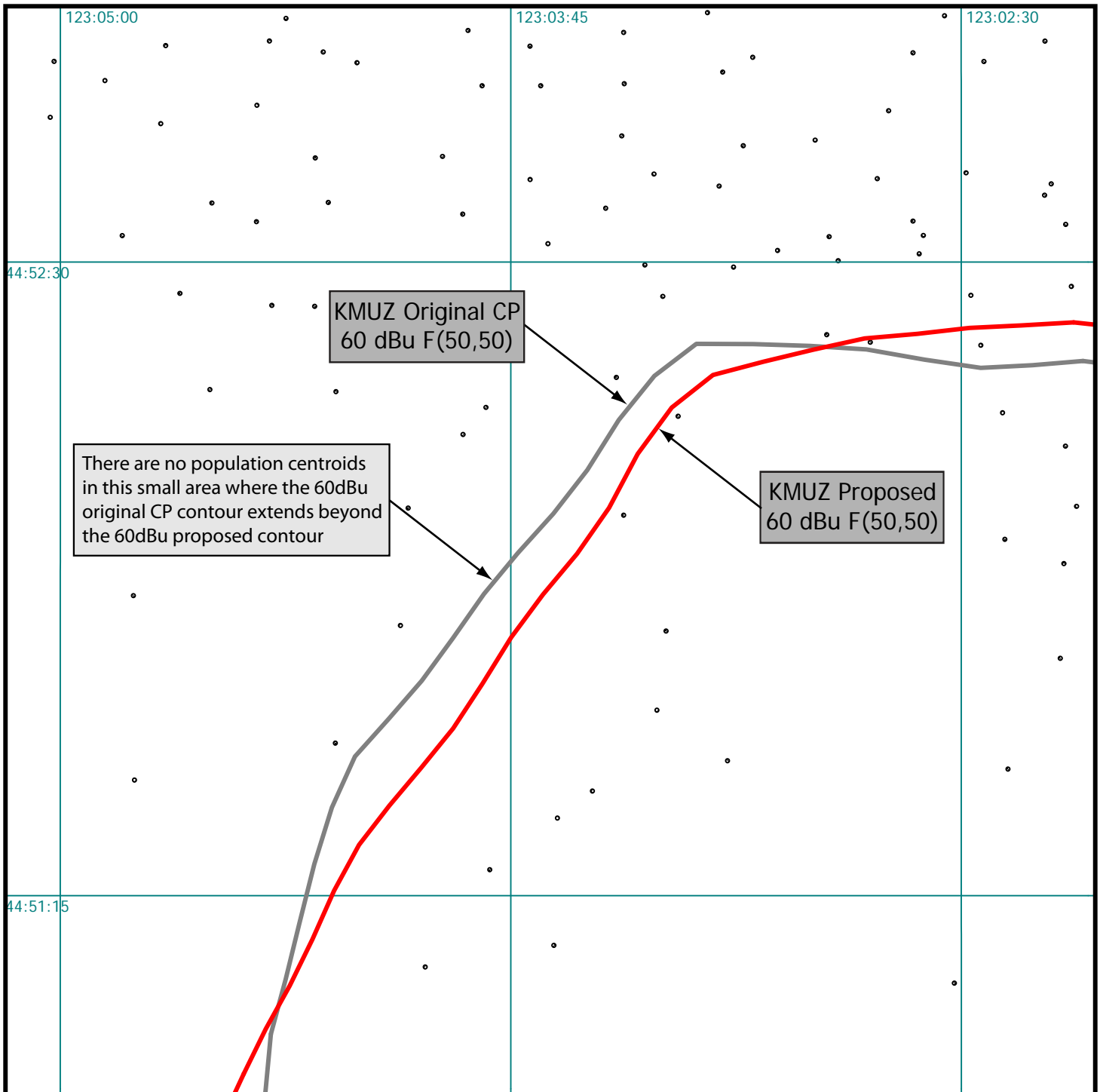


EXHIBIT 16

COMMUNITY COVERAGE

The proposed facility complies with the community coverage requirements of §73.515, as shown by the data below and Exhibit 16a. This Rule requires that at least 50% of the area **or** population of the community of license must be covered by a 60dBu signal.

Total Population of Community of License	1,199
Population within 60dBu	1,189
Population within 60dBu %	99.17%
Total Area of Community of License - km ²	4.1
Area within 60dBu - km ²	3.7
Area within 60dBu%	90.24%

BROWN BROADCAST SERVICES

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INCORPORATED
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503-245-6065

Exhibit 16a - Community of License Coverage

Brown Broadcast Services, Inc.
Job: KMUZ 07052011db.fmj
Master Database: 2011_Jul_05.fmd
Lat: N44:47:00 Lon: W122:59:44 NAD-27
Scale: 1:150000
Channel: 203 Class: A

rfInvestigator Version 3.4.27
by rfSoftware, Inc.
Date: 7/26/2011 6:38:36 PM
Key:
City Grade
Protected
Co-Channel
1st Adj
2nd/3rd Adj

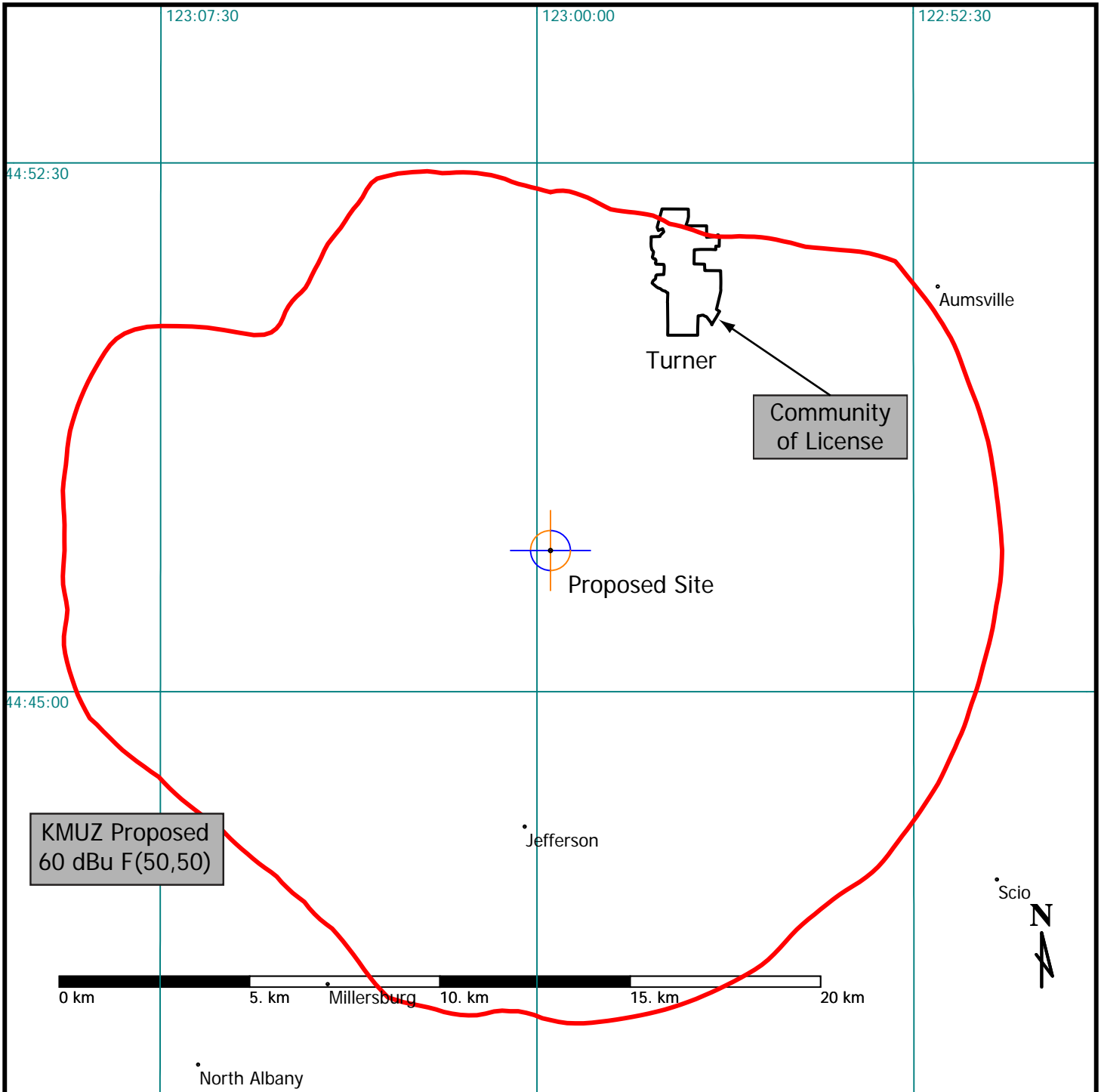


EXHIBIT 18
CONTOUR OVERLAP PROTECTION
TO OTHER RESERVED-BAND STATIONS
& SPACING REQUIREMENTS
TO NON-RESERVED BAND STATIONS

This proposed minor-change meets the contour overlap requirements of §73.509 with respect to all other reserved-band stations.

Domestic reserved-band stations considered:

ID	City	St	Chan	CL	Stat	Prefix	ARN	Dist	Min 207	Clear 207
Co-channel										
KPIJ	JUNCTION CITY	OR	203	C2	LIC	BLED	20080626ABB	73.5	166	-92.5
KAIK	TILLAMOOK	OR	203	A	LIC	BMLD	20060428ACI	105.1	115	-9.9
KWRX	REDMOND	OR	203	C2	LIC	BLED	20070613ACV	166.6	166	0.6
KAVE	OAKRIDGE	OR	203	A	LIC	BLED	20040220AAO	123.8	115	8.8
1st Adjacent channel										
KBVR	CORVALLIS	OR	204	A	LIC	BLED	19810209AS	33.0	72	-39.1
KBVM	PORTLAND	OR	202	C2	LIC	BLED	20060221ADR	84.0	106	-22.0
KLVP CP	SANDY	OR	204	C1	CP	BPED	20091125AGF	118.1	133	-14.9
KLVP	SANDY	OR	204	C1	LIC	BLED	20080409ACI	118.1	133	-14.9
2nd & 3rd Adjacent channel										
KGRI	LEBANON	OR	201	C3	LIC	BMLD	20081007ALM	46.8	42	4.8
KMHD	GRESHAM	OR	206	C1	LIC	BLED	20050603ABW	84.0	75	9.0
KMHD App	GRESHAM	OR	206	C1	APP	BSTA	20091208ACD	84.0	75	9.0

All contour calculations were made using the methods and procedures described in 47 CFR §73.313(c). Areas were calculated using a spline integration in one-degree increments. Population totals were calculated by testing each U.S. Census-defined block-centroid population point in the region with a point-in-polygon method. The population was summed for each point within the polygon using data from the 2000 Census.

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Exhibit 18a - Co-channel Contour Protection

Brown Broadcast Services, Inc.
Job: KMUZ 07052011db.fmj
Master Database: 2011_Jul_05.fmd
Lat: N44:47:00 Lon: W122:59:44 NAD-27
Scale: 1:1750000
Channel: 203 Class: A

rfInvestigator Version 3.4.27
by rfSoftware, Inc.
Date: 7/26/2011 5:51:04 PM

PROPOSED Protected: 60dBu F(50,50) Interfering: 40dBu F(50,10)
AFFECTED Protected: 60dBu F(50,50) Interfering: 40dBu F(50,10)

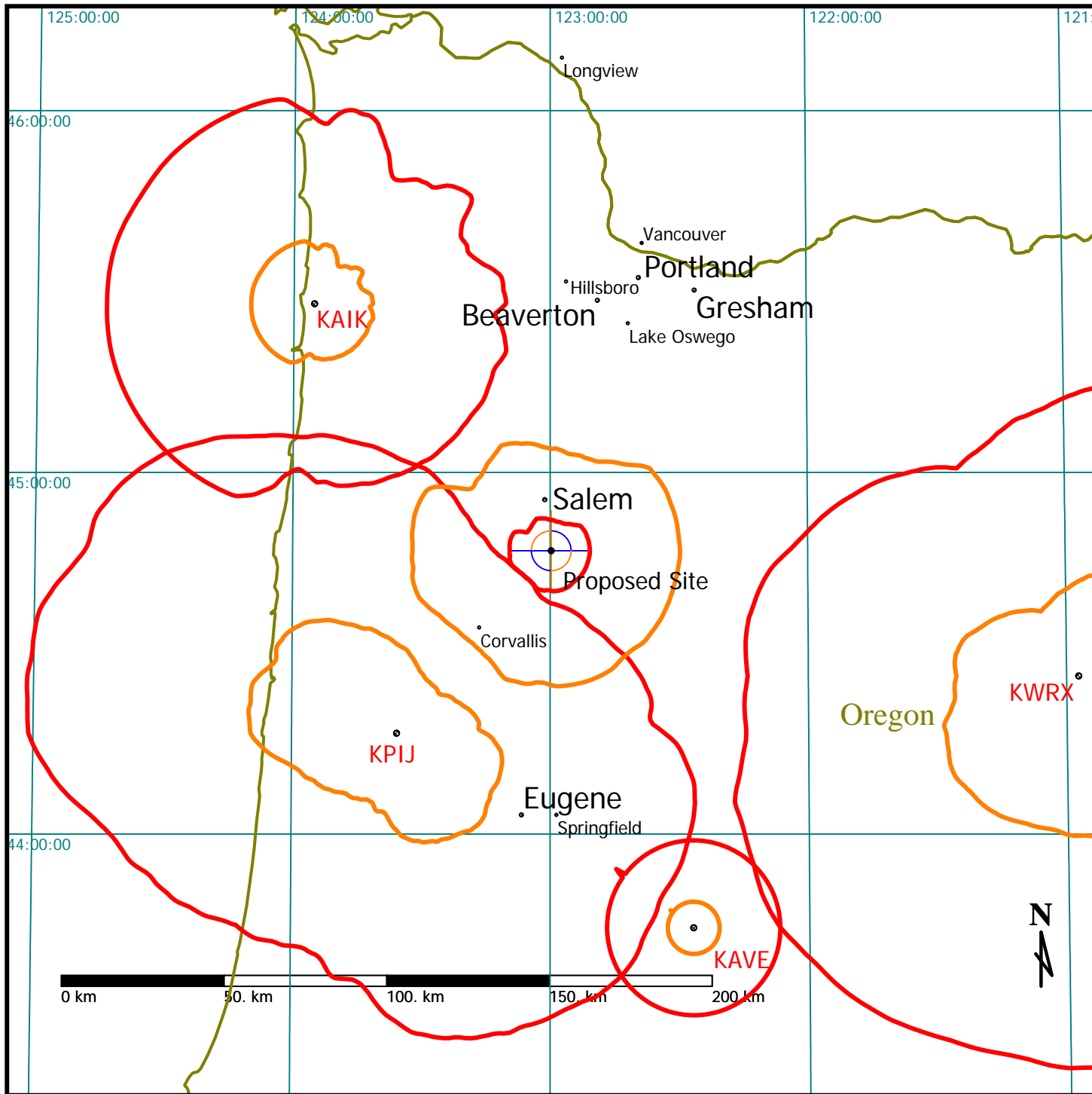


EXHIBIT 18b

FMOver Analysis -

KMUZ (CP) Proposed Minor Mod. vs. KPIJ, Junction City, OR

07-25-2011 Terrain Data: FCC NGDC 30 Sec FMOver Analysis

KMUZ (CP) Prop Minor Mod.

KPIJ BLED20080626ABB

Channel = 203A
 Max ERP = 0.036 kW
 RCAMSL = 333 M
 N. Lat. 44 47 00.0
 W. Lng. 122 59 44.0
 Protected
 60 dBu

Channel = 203C2
 Max ERP = 0.55 kW
 RCAMSL = 1041 M
 N. Lat. 44 16 44.0
 W. Lng. 123 35 38.0
 Interfering
 40 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
175.0	000.0360	0242.6	012.5	047.8	000.0258	0579.2	065.4	38.60	
176.0	000.0360	0242.5	012.5	047.7	000.0257	0578.9	065.2	38.65	
177.0	000.0360	0242.2	012.5	047.6	000.0257	0578.6	065.1	38.69	
178.0	000.0360	0241.5	012.4	047.4	000.0256	0578.2	064.9	38.73	
179.0	000.0360	0240.0	012.4	047.3	000.0256	0578.0	064.8	38.76	
180.0	000.0360	0238.0	012.3	047.1	000.0255	0578.0	064.6	38.80	
181.0	000.0360	0236.1	012.3	047.0	000.0255	0578.1	064.5	38.83	
182.0	000.0360	0232.9	012.2	046.8	000.0254	0578.3	064.4	38.85	
183.0	000.0360	0230.8	012.2	046.6	000.0253	0578.8	064.3	38.89	
184.0	000.0360	0229.5	012.1	046.5	000.0253	0579.4	064.2	38.92	
185.0	000.0360	0229.8	012.1	046.3	000.0252	0580.3	064.0	38.98	
186.0	000.0360	0229.9	012.1	046.2	000.0252	0581.3	063.9	39.03	
187.0	000.0360	0231.6	012.2	046.1	000.0251	0582.2	063.7	39.09	
188.0	000.0360	0235.1	012.3	046.0	000.0251	0583.0	063.5	39.16	
189.0	000.0360	0238.4	012.4	045.9	000.0250	0583.8	063.3	39.23	
190.0	000.0360	0240.2	012.4	045.7	000.0250	0585.0	063.2	39.29	
191.0	000.0359	0241.6	012.4	045.6	000.0249	0586.4	063.0	39.34	
192.0	000.0358	0242.7	012.4	045.4	000.0249	0588.2	062.9	39.40	
193.0	000.0357	0243.2	012.5	045.3	000.0248	0590.2	062.7	39.46	
194.0	000.0356	0243.2	012.4	045.1	000.0248	0592.6	062.6	39.51	
195.0	000.0355	0243.4	012.4	044.9	000.0247	0595.0	062.5	39.56	
196.0	000.0354	0244.2	012.5	044.8	000.0246	0597.3	062.4	39.62	
197.0	000.0353	0245.6	012.5	044.6	000.0246	0599.7	062.3	39.68	
198.0	000.0352	0247.0	012.5	044.4	000.0245	0602.2	062.2	39.74	
199.0	000.0351	0247.8	012.5	044.3	000.0244	0604.9	062.1	39.80	
200.0	000.0350	0248.4	012.5	044.1	000.0244	0607.5	062.0	39.85	
201.0	000.0336	0249.0	012.4	043.9	000.0243	0610.6	062.0	39.87	
202.0	000.0322	0249.7	012.3	043.6	000.0242	0613.9	062.0	39.90	
203.0	000.0309	0250.4	012.2	043.4	000.0241	0617.2	062.0	39.92	
204.0	000.0296	0250.7	012.1	043.2	000.0240	0620.2	062.0	39.93	
205.0	000.0283	0250.9	012.0	043.0	000.0240	0622.9	062.1	39.94	
206.0	000.0271	0251.3	011.8	042.8	000.0239	0625.4	062.1	39.94	
207.0	000.0258	0252.2	011.7	042.5	000.0238	0627.7	062.2	39.94	
208.0	000.0247	0253.6	011.6	042.3	000.0237	0630.0	062.2	39.94	
209.0	000.0235	0255.6	011.5	042.1	000.0237	0632.2	062.3	39.94	
210.0	000.0224	0258.1	011.5	041.9	000.0236	0634.0	062.3	39.94	
211.0	000.0219	0260.7	011.5	041.8	000.0235	0635.4	062.2	39.96	
212.0	000.0215	0263.1	011.5	041.6	000.0235	0636.7	062.2	39.98	

BROWN BROADCAST SERVICES
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Portland, Oregon 97219-7418

503-245-6065

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
213.0	000.0211	0265.0	011.5	041.4	000.0234	0637.8	062.2	39.99	
214.0	000.0207	0266.4	011.4	041.2	000.0233	0638.9	062.2	39.99	
215.0	000.0202	0267.2	011.4	041.0	000.0233	0640.0	062.2	39.99	
216.0	000.0200	0267.7	011.4	040.8	000.0232	0640.8	062.2	39.98	
217.0	000.0197	0267.8	011.3	040.7	000.0231	0641.4	062.2	39.97	
218.0	000.0194	0267.5	011.3	040.5	000.0231	0641.9	062.3	39.96	
219.0	000.0192	0266.7	011.2	040.3	000.0230	0642.4	062.3	39.94	
220.0	000.0189	0265.5	011.2	040.1	000.0229	0642.6	062.4	39.91	
221.0	000.0190	0265.3	011.2	039.9	000.0229	0642.8	062.4	39.90	
222.0	000.0190	0266.1	011.2	039.8	000.0229	0643.0	062.3	39.91	
223.0	000.0191	0266.9	011.2	039.6	000.0229	0643.2	062.3	39.92	
224.0	000.0191	0267.2	011.2	039.4	000.0229	0643.5	062.3	39.92	
225.0	000.0192	0267.4	011.3	039.2	000.0229	0643.7	062.3	39.93	
226.0	000.0192	0267.8	011.3	039.0	000.0229	0643.9	062.3	39.93	
227.0	000.0193	0268.2	011.3	038.9	000.0229	0644.2	062.3	39.93	
228.0	000.0194	0268.5	011.3	038.7	000.0229	0644.4	062.3	39.93	
229.0	000.0194	0268.7	011.3	038.5	000.0229	0644.6	062.4	39.92	
230.0	000.0195	0268.8	011.3	038.3	000.0229	0644.8	062.4	39.92	
231.0	000.0199	0268.8	011.4	038.1	000.0229	0645.1	062.4	39.93	
232.0	000.0204	0268.9	011.4	037.9	000.0229	0645.4	062.4	39.93	
233.0	000.0208	0269.0	011.5	037.7	000.0229	0645.7	062.4	39.94	
234.0	000.0212	0269.1	011.6	037.6	000.0229	0645.9	062.4	39.95	
235.0	000.0217	0269.1	011.6	037.4	000.0229	0646.1	062.4	39.95	
236.0	000.0221	0269.0	011.7	037.2	000.0229	0646.3	062.4	39.95	
237.0	000.0226	0268.8	011.7	037.0	000.0229	0646.5	062.4	39.94	
238.0	000.0231	0268.5	011.8	036.8	000.0229	0646.5	062.4	39.94	
239.0	000.0236	0268.1	011.8	036.6	000.0229	0646.5	062.4	39.93	
240.0	000.0240	0267.7	011.9	036.4	000.0229	0646.4	062.5	39.91	
241.0	000.0250	0267.3	012.0	036.2	000.0229	0646.3	062.5	39.91	
242.0	000.0259	0266.9	012.1	036.0	000.0229	0646.2	062.5	39.91	
243.0	000.0270	0266.7	012.2	035.8	000.0229	0646.3	062.5	39.92	
244.0	000.0280	0266.5	012.3	035.5	000.0229	0646.7	062.5	39.92	
245.0	000.0290	0266.5	012.4	035.3	000.0229	0647.1	062.5	39.92	
246.0	000.0301	0266.1	012.5	035.1	000.0229	0647.6	062.5	39.92	
247.0	000.0311	0265.4	012.6	034.9	000.0229	0648.4	062.5	39.91	
248.0	000.0323	0264.6	012.7	034.7	000.0229	0649.2	062.6	39.91	
249.0	000.0334	0264.0	012.8	034.5	000.0229	0650.2	062.6	39.91	
250.0	000.0345	0264.3	012.9	034.2	000.0229	0651.3	062.7	39.91	
251.0	000.0346	0265.2	012.9	034.1	000.0229	0652.4	062.8	39.89	
252.0	000.0348	0266.1	012.9	033.9	000.0229	0653.4	062.9	39.86	
253.0	000.0349	0267.0	013.0	033.7	000.0229	0654.4	063.0	39.84	
254.0	000.0351	0267.3	013.0	033.5	000.0229	0655.3	063.1	39.81	
255.0	000.0352	0267.2	013.0	033.4	000.0229	0656.3	063.3	39.77	
256.0	000.0354	0267.1	013.0	033.2	000.0229	0657.1	063.4	39.74	
257.0	000.0355	0266.9	013.0	033.1	000.0229	0657.8	063.6	39.70	
258.0	000.0357	0266.5	013.0	032.9	000.0229	0658.4	063.7	39.66	
259.0	000.0359	0265.7	013.0	032.8	000.0229	0659.0	063.9	39.61	
260.0	000.0360	0263.9	013.0	032.6	000.0229	0659.4	064.1	39.55	
261.0	000.0360	0261.1	012.9	032.6	000.0229	0659.6	064.3	39.49	
262.0	000.0360	0258.2	012.8	032.5	000.0229	0659.8	064.5	39.42	
263.0	000.0360	0255.9	012.8	032.4	000.0229	0660.1	064.7	39.35	
264.0	000.0360	0255.8	012.8	032.3	000.0229	0660.4	064.9	39.30	

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Portland, Oregon 97219-7418

503-245-6065

07-25-2011 Terrain Data: FCC NGDC 30 Sec FMOver Analysis

KPIJ BLED20080626ABB

KMUZ (CP) Prop Minor Mod.

Channel = 203C2
 Max ERP = 0.55 kW
 RCAMSL = 1041 M
 N. Lat. 44 16 44.0
 W. Lng. 123 35 38.0
 Protected
 60 dBu

Channel = 203A
 Max ERP = 0.036 kW
 RCAMSL = 333 M
 N. Lat. 44 47 00.0
 W. Lng. 122 59 44.0
 Interfering
 40 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
355.0	000.0884	0822.5	029.4	241.9	000.0259	0267.0	056.7	33.22	
356.0	000.0844	0821.2	029.0	241.4	000.0253	0267.2	056.4	33.26	
357.0	000.0805	0818.2	028.6	240.8	000.0248	0267.4	056.2	33.28	
358.0	000.0767	0816.3	028.2	240.2	000.0242	0267.6	055.9	33.30	
359.0	000.0730	0812.9	027.8	239.6	000.0238	0267.9	055.7	33.33	
000.0	000.0693	0809.1	027.4	239.0	000.0235	0268.1	055.5	33.36	
001.0	000.0665	0807.5	027.0	238.4	000.0233	0268.3	055.2	33.42	
002.0	000.0637	0811.0	026.8	238.0	000.0231	0268.5	055.0	33.49	
003.0	000.0610	0813.8	026.6	237.5	000.0228	0268.7	054.7	33.54	
004.0	000.0584	0819.7	026.4	237.0	000.0226	0268.8	054.5	33.60	
005.0	000.0558	0827.7	026.2	236.6	000.0224	0268.9	054.2	33.67	
006.0	000.0533	0833.6	026.0	236.1	000.0222	0269.0	054.0	33.71	
007.0	000.0508	0830.5	025.6	235.5	000.0219	0269.0	053.9	33.70	
008.0	000.0484	0822.4	025.2	234.8	000.0216	0269.1	053.9	33.66	
009.0	000.0460	0814.0	024.7	234.2	000.0213	0269.1	053.9	33.61	
010.0	000.0437	0803.4	024.3	233.5	000.0210	0269.0	053.9	33.53	
011.0	000.0420	0795.8	023.9	232.9	000.0207	0269.0	053.9	33.48	
012.0	000.0402	0789.0	023.6	232.3	000.0205	0268.9	053.9	33.43	
013.0	000.0385	0782.7	023.2	231.7	000.0202	0268.9	053.9	33.37	
014.0	000.0368	0771.1	022.8	231.1	000.0200	0268.8	054.0	33.28	
015.0	000.0352	0756.7	022.4	230.5	000.0197	0268.9	054.1	33.17	
016.0	000.0336	0746.3	022.0	229.9	000.0195	0268.8	054.2	33.07	
017.0	000.0321	0740.3	021.6	229.4	000.0195	0268.8	054.3	33.03	
018.0	000.0305	0737.2	021.3	228.9	000.0194	0268.7	054.4	32.99	
019.0	000.0290	0730.6	020.9	228.4	000.0194	0268.6	054.5	32.92	
020.0	000.0276	0720.7	020.5	227.8	000.0194	0268.4	054.7	32.83	
021.0	000.0271	0709.2	020.3	227.4	000.0193	0268.3	054.8	32.79	
022.0	000.0266	0700.9	020.0	226.9	000.0193	0268.2	054.8	32.76	
023.0	000.0261	0697.6	019.9	226.5	000.0193	0268.0	054.8	32.76	
024.0	000.0257	0695.1	019.8	226.2	000.0192	0267.8	054.8	32.75	
025.0	000.0252	0686.9	019.5	225.7	000.0192	0267.7	054.9	32.71	
026.0	000.0247	0675.0	019.3	225.3	000.0192	0267.5	055.0	32.64	
027.0	000.0243	0666.4	019.1	224.9	000.0192	0267.4	055.1	32.59	
028.0	000.0238	0662.9	018.9	224.5	000.0192	0267.3	055.2	32.56	
029.0	000.0233	0662.1	018.8	224.2	000.0191	0267.3	055.2	32.55	
030.0	000.0229	0662.0	018.7	223.8	000.0191	0267.2	055.2	32.53	
031.0	000.0229	0662.1	018.7	223.5	000.0191	0267.1	055.1	32.56	
032.0	000.0229	0661.0	018.7	223.1	000.0191	0267.0	055.1	32.57	
033.0	000.0229	0658.0	018.6	222.8	000.0191	0266.8	055.1	32.56	
034.0	000.0229	0652.7	018.5	222.5	000.0191	0266.5	055.1	32.54	
035.0	000.0229	0648.0	018.5	222.1	000.0190	0266.2	055.1	32.51	
036.0	000.0229	0646.2	018.4	221.8	000.0190	0265.9	055.1	32.50	
037.0	000.0229	0646.5	018.4	221.4	000.0190	0265.5	055.1	32.50	

BROWN BROADCAST SERVICES
 INCORPORATED

Michael D. Brown 3740 S.W. Comus St. Portland, Oregon 97219-7418 503-245-6065

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
038.0	000.0229	0645.3	018.4	221.1	000.0190	0265.3	055.1	32.49	
039.0	000.0229	0644.0	018.4	220.8	000.0190	0265.2	055.1	32.48	
040.0	000.0229	0642.7	018.4	220.4	000.0189	0265.3	055.1	32.47	
041.0	000.0232	0640.2	018.4	220.1	000.0189	0265.4	055.1	32.49	
042.0	000.0236	0633.5	018.4	219.8	000.0190	0265.8	055.1	32.50	
043.0	000.0240	0622.6	018.3	219.4	000.0191	0266.2	055.2	32.48	
044.0	000.0243	0608.6	018.2	219.1	000.0192	0266.5	055.4	32.44	
045.0	000.0247	0594.0	018.0	218.8	000.0192	0266.9	055.6	32.39	
046.0	000.0251	0582.8	017.8	218.5	000.0193	0267.2	055.8	32.35	
047.0	000.0255	0578.0	017.8	218.2	000.0194	0267.4	055.8	32.35	
048.0	000.0259	0579.8	017.9	217.9	000.0195	0267.6	055.8	32.40	
049.0	000.0262	0585.4	018.1	217.5	000.0196	0267.7	055.6	32.47	
050.0	000.0266	0591.0	018.3	217.2	000.0197	0267.8	055.5	32.54	
051.0	000.0280	0595.9	018.7	216.7	000.0198	0267.8	055.3	32.67	
052.0	000.0295	0599.3	019.0	216.3	000.0199	0267.8	055.0	32.78	
053.0	000.0309	0601.5	019.3	215.9	000.0200	0267.7	054.9	32.88	
054.0	000.0324	0602.5	019.5	215.5	000.0201	0267.5	054.7	32.96	
055.0	000.0340	0603.0	019.8	215.1	000.0202	0267.2	054.6	33.03	
056.0	000.0355	0602.6	020.0	214.6	000.0204	0267.0	054.5	33.09	
057.0	000.0372	0600.6	020.2	214.2	000.0206	0266.6	054.4	33.14	
058.0	000.0388	0595.7	020.3	213.8	000.0208	0266.2	054.5	33.15	
059.0	000.0405	0588.1	020.4	213.4	000.0209	0265.7	054.5	33.13	
060.0	000.0422	0579.8	020.5	213.1	000.0210	0265.1	054.7	33.09	
061.0	000.0444	0574.2	020.6	212.7	000.0212	0264.5	054.7	33.10	
062.0	000.0467	0572.2	020.9	212.2	000.0214	0263.6	054.7	33.11	
063.0	000.0490	0573.0	021.1	211.7	000.0216	0262.5	054.6	33.14	
064.0	000.0514	0574.4	021.4	211.2	000.0218	0261.3	054.6	33.15	
065.0	000.0539	0574.2	021.7	210.8	000.0220	0260.1	054.6	33.15	
066.0	000.0564	0572.7	021.9	210.3	000.0222	0258.9	054.6	33.13	
067.0	000.0590	0570.7	022.1	209.9	000.0225	0257.8	054.7	33.12	
068.0	000.0616	0569.8	022.3	209.4	000.0230	0256.6	054.7	33.16	
069.0	000.0643	0571.6	022.6	208.9	000.0236	0255.4	054.8	33.21	
070.0	000.0670	0575.5	022.9	208.4	000.0242	0254.3	054.8	33.28	
071.0	000.0705	0579.2	023.3	207.8	000.0249	0253.3	054.8	33.36	
072.0	000.0742	0579.5	023.6	207.3	000.0255	0252.5	054.9	33.41	
073.0	000.0779	0577.6	023.8	206.8	000.0261	0252.0	055.0	33.43	
074.0	000.0817	0573.8	024.0	206.4	000.0266	0251.6	055.2	33.43	
075.0	000.0856	0570.5	024.2	205.9	000.0272	0251.3	055.4	33.44	
076.0	000.0896	0569.4	024.4	205.4	000.0278	0251.1	055.5	33.46	
077.0	000.0937	0567.7	024.7	205.0	000.0283	0250.9	055.7	33.46	
078.0	000.0979	0565.0	024.9	204.6	000.0289	0250.8	055.9	33.45	
079.0	000.1021	0560.7	025.0	204.2	000.0294	0250.8	056.2	33.42	
080.0	000.1065	0557.1	025.2	203.8	000.0299	0250.7	056.5	33.38	
081.0	000.1120	0554.1	025.4	203.4	000.0305	0250.5	056.7	33.36	
082.0	000.1177	0547.9	025.5	203.0	000.0309	0250.4	057.0	33.30	
083.0	000.1235	0539.7	025.6	202.7	000.0313	0250.2	057.4	33.21	
084.0	000.1295	0529.1	025.6	202.5	000.0316	0250.1	057.8	33.08	

BROWN BROADCAST SERVICES
INCORPORATED

Michael D. Brown

3740 S.W. Comus St.

Portland, Oregon 97219-7418

503-245-6065

Exhibit 18c - 1st Adjacent Channel Contour Protection

Brown Broadcast Services, Inc.
Job: KMUZ 07052011db.fmj
Master Database: 2011_Jul_05.fmd
Lat: N44:47:00 Lon: W122:59:44 NAD-27
Scale: 1:1250000
Channel: 203 Class: A

rfInvestigator Version 3.4.27
by rfSoftware, Inc.
Date: 7/26/2011 5:52:50 PM

PROPOSED Protected: 60dBu F(50,50) Interfering: 54dBu F(50,10)
AFFECTED Protected: 60dBu F(50,50) Interfering: 54dBu F(50,10)

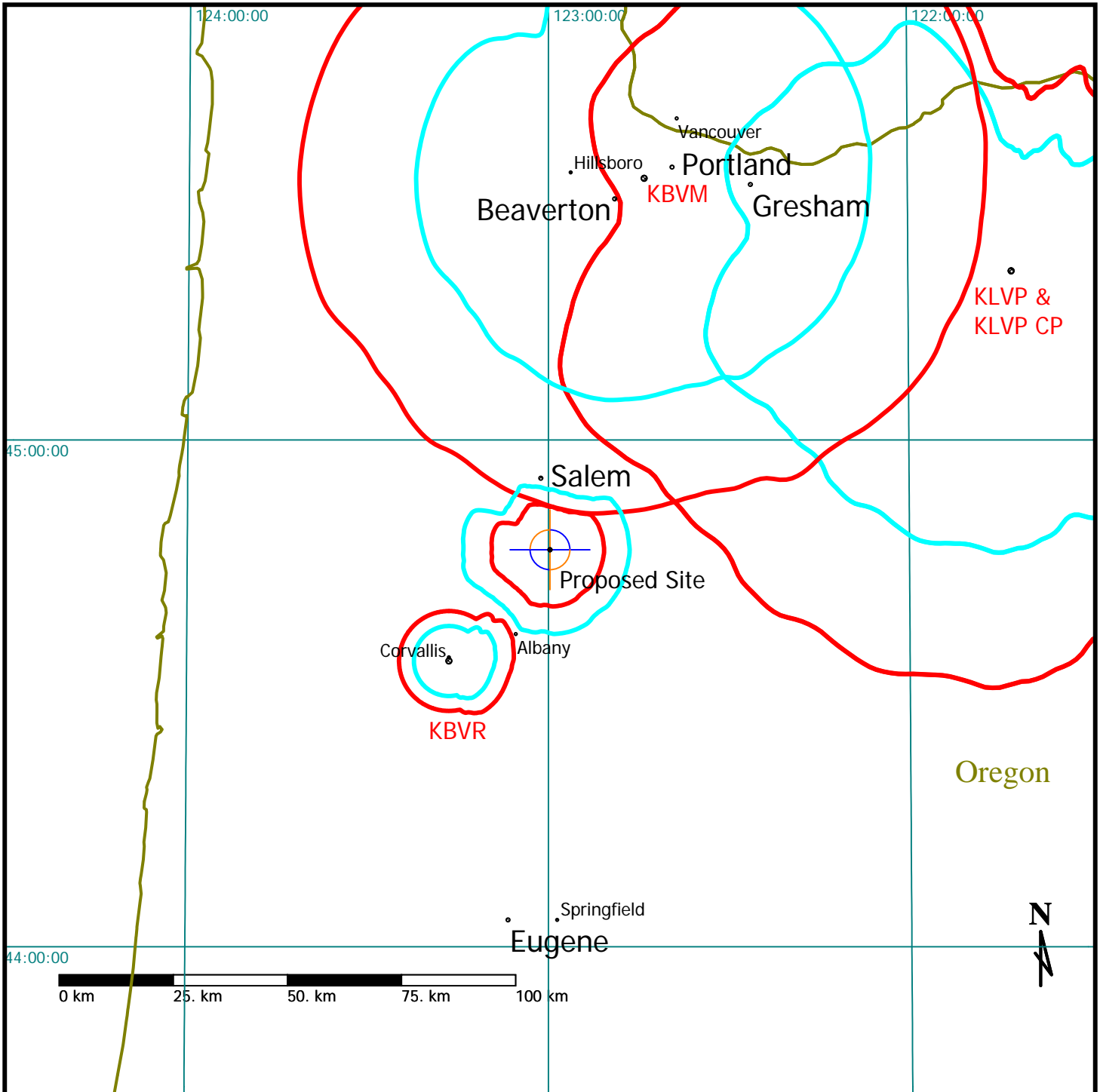


EXHIBIT 18d

FMOver Analysis -

KMUZ (CP) Proposed Minor Mod. vs. KBVM, Portland, OR

07-25-2011 Terrain Data: FCC NGDC 30 Sec FMOver Analysis

KMUZ (CP) Prop Minor Mod.

KBVM BLED20060221ADR

Channel = 203A
 Max ERP = 0.036 kW
 RCAMSL = 333 M
 N. Lat. 44 47 00.0
 W. Lng. 122 59 44.0
 Protected
 60 dBu

Channel = 202C2
 Max ERP = 3.5 kW
 RCAMSL = 528 M
 N. Lat. 45 30 58.0
 W. Lng. 122 43 59.0
 Interfering
 54 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
329.0	000.0360	0163.6	010.3	199.7	003.5000	0454.5	077.1	53.16	
330.0	000.0360	0165.8	010.4	199.7	003.5000	0454.4	076.9	53.22	
331.0	000.0360	0167.8	010.4	199.6	003.5000	0454.4	076.7	53.28	
332.0	000.0360	0170.5	010.5	199.6	003.5000	0454.4	076.5	53.34	
333.0	000.0360	0174.2	010.6	199.5	003.5000	0454.4	076.3	53.41	
334.0	000.0360	0177.3	010.7	199.5	003.5000	0454.4	076.1	53.47	
335.0	000.0360	0178.6	010.8	199.4	003.5000	0454.4	076.0	53.53	
336.0	000.0354	0179.0	010.7	199.3	003.5000	0454.4	075.9	53.56	
337.0	000.0347	0179.5	010.7	199.2	003.5000	0454.4	075.8	53.59	
338.0	000.0341	0180.0	010.7	199.0	003.5000	0454.4	075.7	53.63	
339.0	000.0335	0179.7	010.6	198.9	003.5000	0454.4	075.6	53.65	
340.0	000.0329	0179.7	010.6	198.8	003.5000	0454.5	075.5	53.68	
341.0	000.0315	0181.7	010.5	198.6	003.5000	0454.5	075.4	53.71	
342.0	000.0301	0184.1	010.5	198.5	003.5000	0454.6	075.4	53.73	
343.0	000.0288	0185.1	010.4	198.4	003.5000	0454.7	075.3	53.75	
344.0	000.0276	0186.2	010.3	198.2	003.5000	0454.8	075.3	53.76	
345.0	000.0263	0189.0	010.3	198.1	003.5000	0454.9	075.2	53.78	
346.0	000.0252	0191.9	010.2	197.9	003.5000	0455.0	075.2	53.81	
347.0	000.0241	0194.7	010.2	197.8	003.5000	0455.1	075.1	53.83	
348.0	000.0230	0197.6	010.1	197.7	003.5000	0455.3	075.0	53.85	
349.0	000.0220	0200.2	010.1	197.5	003.5000	0455.4	075.0	53.87	
350.0	000.0210	0202.5	010.0	197.4	003.5000	0455.5	075.0	53.88	
351.0	000.0201	0204.4	010.0	197.3	003.5000	0455.7	075.0	53.89	
352.0	000.0192	0205.9	009.9	197.1	003.5000	0455.8	074.9	53.90	
353.0	000.0184	0207.3	009.8	197.0	003.5000	0455.9	074.9	53.91	
354.0	000.0176	0208.5	009.7	196.8	003.5000	0456.1	074.9	53.91	
355.0	000.0168	0210.3	009.7	196.7	003.5000	0456.2	074.9	53.91	
356.0	000.0161	0212.5	009.6	196.6	003.5000	0456.3	074.9	53.91	
357.0	000.0154	0215.2	009.6	196.4	003.5000	0456.4	074.9	53.92	
358.0	000.0147	0217.8	009.5	196.3	003.5000	0456.4	074.9	53.92	
359.0	000.0141	0220.8	009.5	196.2	003.5000	0456.5	074.9	53.93	
000.0	000.0134	0223.8	009.4	196.0	003.5000	0456.6	074.9	53.93	
001.0	000.0132	0226.7	009.5	195.9	003.5000	0456.6	074.8	53.96	
002.0	000.0130	0228.7	009.5	195.8	003.5000	0456.6	074.8	53.97	
003.0	000.0129	0229.4	009.5	195.7	003.5000	0456.7	074.8	53.98	
004.0	000.0127	0229.1	009.4	195.5	003.5000	0456.7	074.8	53.98	
005.0	000.0126	0228.8	009.4	195.4	003.5000	0456.7	074.8	53.98	

BROWN BROADCAST SERVICES
 INCORPORATED

Michael D. Brown 3740 S.W. Comus St. Portland, Oregon 97219-7418 503-245-6065

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
006.0	000.0124	0227.9	009.3	195.3	003.5000	0456.7	074.8	53.97	
007.0	000.0122	0226.6	009.3	195.1	003.5000	0456.7	074.8	53.96	
008.0	000.0121	0225.5	009.2	195.0	003.5000	0456.7	074.9	53.95	
009.0	000.0119	0224.6	009.2	194.9	003.5000	0456.7	074.9	53.94	
010.0	000.0117	0223.8	009.1	194.8	003.5000	0456.7	074.9	53.93	
011.0	000.0118	0223.1	009.1	194.6	003.5000	0456.7	074.9	53.93	
012.0	000.0119	0223.0	009.1	194.5	003.5000	0456.7	074.9	53.94	
013.0	000.0119	0223.3	009.1	194.4	003.5000	0456.7	074.9	53.95	
014.0	000.0120	0223.4	009.2	194.3	003.5000	0456.7	074.9	53.95	
015.0	000.0121	0223.5	009.2	194.2	003.5000	0456.6	074.8	53.96	
016.0	000.0122	0223.7	009.2	194.0	003.5000	0456.6	074.8	53.96	
017.0	000.0123	0223.3	009.2	193.9	003.5000	0456.6	074.8	53.96	
018.0	000.0123	0222.2	009.2	193.8	003.5000	0456.6	074.8	53.95	
019.0	000.0124	0220.3	009.2	193.7	003.5000	0456.5	074.9	53.94	
020.0	000.0125	0218.1	009.1	193.5	003.5000	0456.5	074.9	53.92	
021.0	000.0129	0215.9	009.2	193.4	003.5000	0456.5	074.9	53.92	
022.0	000.0133	0213.6	009.2	193.3	003.5000	0456.4	074.9	53.92	
023.0	000.0136	0211.3	009.2	193.2	003.5000	0456.4	074.9	53.92	
024.0	000.0140	0208.8	009.2	193.1	003.5000	0456.4	075.0	53.91	
025.0	000.0144	0206.3	009.2	192.9	003.5000	0456.3	075.0	53.90	
026.0	000.0148	0204.2	009.2	192.8	003.5000	0456.3	075.0	53.89	
027.0	000.0153	0203.4	009.3	192.7	003.5000	0456.2	075.0	53.89	
028.0	000.0156	0203.7	009.3	192.5	003.5000	0456.1	075.0	53.90	
029.0	000.0161	0204.9	009.4	192.4	003.5000	0456.0	074.9	53.91	
030.0	000.0165	0206.1	009.5	192.3	003.5000	0456.0	074.9	53.92	
031.0	000.0171	0206.9	009.6	192.1	003.5000	0455.9	074.8	53.94	
032.0	000.0176	0207.6	009.7	192.0	003.5000	0455.8	074.8	53.94	
033.0	000.0182	0208.3	009.8	191.8	003.5000	0455.7	074.8	53.95	
034.0	000.0188	0208.9	009.9	191.7	003.5000	0455.6	074.8	53.95	
035.0	000.0194	0209.2	010.0	191.5	003.5000	0455.4	074.7	53.96	
036.0	000.0201	0209.2	010.1	191.4	003.5000	0455.3	074.7	53.95	
037.0	000.0207	0209.3	010.2	191.2	003.5000	0455.2	074.7	53.95	
038.0	000.0213	0209.5	010.2	191.1	003.5000	0455.1	074.8	53.94	
039.0	000.0220	0209.7	010.3	190.9	003.5000	0454.9	074.8	53.93	
040.0	000.0226	0209.9	010.4	190.8	003.5000	0454.8	074.8	53.93	
041.0	000.0238	0210.2	010.5	190.6	003.5000	0454.6	074.8	53.93	
042.0	000.0250	0210.7	010.7	190.4	003.5000	0454.5	074.7	53.93	
043.0	000.0261	0211.9	010.8	190.2	003.5000	0454.3	074.7	53.93	
044.0	000.0274	0213.6	011.0	190.1	003.5000	0454.0	074.7	53.94	
045.0	000.0286	0215.5	011.2	189.9	003.5000	0453.8	074.6	53.94	
046.0	000.0299	0217.1	011.3	189.7	003.5000	0453.5	074.6	53.94	
047.0	000.0313	0218.1	011.5	189.5	003.5000	0453.2	074.6	53.93	
048.0	000.0326	0218.4	011.6	189.3	003.5000	0452.9	074.7	53.91	
049.0	000.0339	0218.4	011.7	189.1	003.5000	0452.6	074.7	53.89	
050.0	000.0354	0218.2	011.8	188.9	003.5000	0452.3	074.8	53.86	
051.0	000.0354	0218.0	011.8	188.8	003.5000	0452.1	074.9	53.81	
052.0	000.0355	0217.7	011.8	188.7	003.5000	0451.8	075.0	53.76	
053.0	000.0355	0217.7	011.8	188.6	003.5000	0451.6	075.2	53.71	
054.0	000.0356	0218.1	011.8	188.5	003.5000	0451.3	075.3	53.66	
055.0	000.0356	0218.5	011.8	188.4	003.5000	0451.1	075.5	53.60	
056.0	000.0357	0219.0	011.8	188.2	003.5000	0450.8	075.6	53.55	
057.0	000.0358	0219.3	011.9	188.1	003.5000	0450.5	075.7	53.50	
058.0	000.0359	0219.4	011.9	188.0	003.5000	0450.2	075.9	53.44	

BROWN BROADCAST SERVICES
INCORPORATED

Michael D. Brown

3740 S.W. Comus St.

Portland, Oregon 97219-7418

503-245-6065

07-25-2011 Terrain Data: FCC NGDC 30 Sec FMOver Analysis

KBVM BLED20060221ADR

KMUZ (CP) Prop Minor Mod.

Channel = 202C2
 Max ERP = 3.5 kW
 RCAMSL = 528 M
 N. Lat. 45 30 58.0
 W. Lng. 122 43 59.0
 Protected
 60 dBu

Channel = 203A
 Max ERP = 0.036 kW
 RCAMSL = 333 M
 N. Lat. 44 47 00.0
 W. Lng. 122 59 44.0
 Interfering
 54 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
149.0	003.5000	0428.7	047.9	048.1	000.0327	0218.5	060.8	30.88	
150.0	003.5000	0432.2	048.1	048.1	000.0327	0218.5	059.9	31.22	
151.0	003.5000	0435.5	048.3	048.1	000.0327	0218.5	059.0	31.55	
152.0	003.5000	0437.7	048.4	048.0	000.0326	0218.4	058.2	31.86	
153.0	003.5000	0438.6	048.4	047.9	000.0324	0218.4	057.3	32.15	
154.0	003.5000	0437.5	048.4	047.6	000.0320	0218.4	056.5	32.41	
155.0	003.5000	0434.0	048.2	047.1	000.0314	0218.2	055.8	32.62	
156.0	003.5000	0426.7	047.8	046.5	000.0306	0217.7	055.1	32.75	
157.0	003.5000	0417.6	047.3	045.7	000.0296	0216.7	054.5	32.80	
158.0	003.5000	0410.1	046.9	045.0	000.0287	0215.5	053.9	32.86	
159.0	003.5000	0406.3	046.7	044.5	000.0280	0214.5	053.2	32.98	
160.0	003.5000	0405.1	046.7	044.0	000.0274	0213.7	052.5	33.14	
161.0	003.5000	0405.5	046.7	043.7	000.0270	0213.0	051.8	33.33	
162.0	003.5000	0407.2	046.8	043.3	000.0265	0212.4	051.0	33.54	
163.0	003.5000	0408.9	046.9	043.0	000.0261	0211.8	050.3	33.74	
164.0	003.5000	0409.1	046.9	042.5	000.0256	0211.3	049.5	33.91	
165.0	003.5000	0408.0	046.8	042.0	000.0249	0210.7	048.9	34.03	
166.0	003.5000	0406.5	046.7	041.4	000.0242	0210.3	048.2	34.14	
167.0	003.5000	0404.7	046.6	040.7	000.0234	0210.1	047.6	34.23	
168.0	003.5000	0403.7	046.6	040.1	000.0227	0209.9	047.0	34.34	
169.0	003.5000	0403.5	046.6	039.4	000.0223	0209.8	046.4	34.50	
170.0	003.5000	0405.4	046.7	038.9	000.0219	0209.6	045.7	34.71	
171.0	003.5000	0407.1	046.8	038.3	000.0215	0209.5	045.0	34.91	
172.0	003.5000	0408.3	046.8	037.6	000.0211	0209.4	044.4	35.09	
173.0	003.5000	0410.1	046.9	037.0	000.0207	0209.3	043.7	35.27	
174.0	003.5000	0413.1	047.1	036.3	000.0203	0209.2	043.1	35.48	
175.0	003.5000	0416.0	047.2	035.6	000.0199	0209.2	042.4	35.68	
176.0	003.5000	0419.1	047.4	034.9	000.0194	0209.2	041.8	35.87	
177.0	003.5000	0422.3	047.6	034.2	000.0189	0209.0	041.1	36.05	
178.0	003.5000	0425.2	047.7	033.4	000.0185	0208.6	040.5	36.21	
179.0	003.5000	0428.1	047.9	032.5	000.0180	0208.0	039.9	36.34	
180.0	003.5000	0431.1	048.0	031.6	000.0174	0207.4	039.3	36.46	
181.0	003.5000	0433.4	048.2	030.7	000.0169	0206.7	038.8	36.54	
182.0	003.5000	0435.7	048.3	029.7	000.0164	0205.7	038.2	36.60	
183.0	003.5000	0437.9	048.4	028.6	000.0159	0204.4	037.8	36.65	
184.0	003.5000	0440.1	048.5	027.5	000.0155	0203.5	037.3	36.71	
185.0	003.5000	0442.0	048.6	026.4	000.0150	0203.7	036.9	36.80	
186.0	003.5000	0444.5	048.8	025.2	000.0145	0205.7	036.5	36.95	
187.0	003.5000	0447.4	048.9	024.0	000.0140	0208.7	036.0	37.15	
188.0	003.5000	0450.2	049.1	022.8	000.0135	0211.8	035.7	37.32	
189.0	003.5000	0452.4	049.2	021.5	000.0131	0214.7	035.3	37.46	
190.0	003.5000	0454.0	049.3	020.2	000.0126	0217.7	035.1	37.54	
191.0	003.5000	0455.0	049.3	018.8	000.0124	0220.7	034.9	37.71	

BROWN BROADCAST SERVICES
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Michael D. Brown 3740 S.W. Comus St. Portland, Oregon 97219-7418 503-245-6065

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
192.0	003.5000	0455.8	049.4	017.4	000.0123	0223.0	034.7	37.84	
193.0	003.5000	0456.3	049.4	016.0	000.0122	0223.7	034.6	37.88	
194.0	003.5000	0456.6	049.4	014.6	000.0121	0223.5	034.6	37.85	
195.0	003.5000	0456.7	049.4	013.2	000.0120	0223.3	034.6	37.80	
196.0	003.5000	0456.6	049.4	011.7	000.0119	0223.0	034.7	37.73	
197.0	003.5000	0455.9	049.4	010.3	000.0118	0223.5	034.8	37.66	
198.0	003.5000	0455.0	049.3	009.0	000.0119	0224.6	034.9	37.67	
199.0	003.5000	0454.4	049.3	007.6	000.0121	0225.9	035.1	37.72	
200.0	003.5000	0454.6	049.3	006.2	000.0124	0227.6	035.3	37.78	
201.0	003.5000	0455.1	049.3	004.9	000.0126	0228.9	035.5	37.81	
202.0	003.5000	0455.4	049.4	003.6	000.0128	0229.2	035.7	37.79	
203.0	003.5000	0455.3	049.4	002.3	000.0130	0229.0	036.0	37.70	
204.0	003.5000	0454.4	049.3	001.0	000.0132	0226.8	036.4	37.50	
205.0	003.5000	0452.9	049.2	359.9	000.0135	0223.4	036.8	37.24	
206.0	003.5000	0451.1	049.1	358.7	000.0142	0220.0	037.3	37.10	
207.0	003.5000	0449.5	049.0	357.7	000.0149	0217.1	037.8	36.95	
208.0	003.5000	0447.6	048.9	356.6	000.0156	0214.1	038.3	36.77	
209.0	003.5000	0445.3	048.8	355.7	000.0163	0211.7	038.9	36.58	
210.0	003.5000	0443.1	048.7	354.7	000.0170	0209.9	039.4	36.40	
211.0	003.5000	0441.0	048.6	353.9	000.0177	0208.3	040.0	36.22	
212.0	003.5000	0439.3	048.5	353.0	000.0184	0207.3	040.6	36.07	
213.0	003.5000	0438.0	048.4	352.2	000.0191	0206.1	041.2	35.90	
214.0	003.5000	0437.8	048.4	351.3	000.0198	0204.9	041.8	35.75	
215.0	003.5000	0438.9	048.5	350.4	000.0206	0203.4	042.3	35.60	
216.0	003.5000	0441.5	048.6	349.5	000.0215	0201.4	042.8	35.47	
217.0	003.5000	0445.0	048.8	348.6	000.0225	0199.1	043.3	35.33	
218.0	003.5000	0447.9	049.0	347.7	000.0234	0196.7	043.9	35.14	
219.0	003.5000	0449.4	049.0	346.9	000.0242	0194.4	044.5	34.92	
220.0	003.5000	0449.5	049.0	346.2	000.0249	0192.6	045.2	34.67	
221.0	003.5000	0448.6	049.0	345.7	000.0255	0190.9	045.9	34.39	
222.0	003.5000	0446.8	048.9	345.2	000.0260	0189.5	046.7	34.11	
223.0	003.5000	0444.6	048.8	344.8	000.0266	0188.3	047.5	33.82	
224.0	003.5000	0441.9	048.6	344.4	000.0271	0187.2	048.3	33.53	
225.0	003.5000	0438.7	048.5	344.1	000.0275	0186.4	049.1	33.24	
226.0	003.5000	0435.1	048.3	343.8	000.0278	0185.9	049.9	32.94	
227.0	003.5000	0431.3	048.1	343.6	000.0281	0185.5	050.8	32.65	
228.0	003.5000	0427.9	047.9	343.4	000.0284	0185.4	051.6	32.36	
229.0	003.5000	0425.3	047.7	343.1	000.0287	0185.2	052.4	32.08	
230.0	003.5000	0423.7	047.6	342.8	000.0290	0185.0	053.2	31.82	
231.0	003.5000	0423.1	047.6	342.5	000.0294	0184.8	054.0	31.56	
232.0	003.5000	0423.6	047.6	342.2	000.0299	0184.4	054.8	31.32	
233.0	003.5000	0424.3	047.7	341.9	000.0303	0183.9	055.5	31.06	
234.0	003.5000	0424.4	047.7	341.6	000.0306	0183.4	056.3	30.79	
235.0	003.5000	0423.6	047.6	341.4	000.0309	0182.9	057.1	30.50	
236.0	003.5000	0422.0	047.6	341.3	000.0311	0182.6	058.0	30.20	
237.0	003.5000	0420.8	047.5	341.1	000.0313	0182.1	058.8	29.91	
238.0	003.5000	0420.7	047.5	341.0	000.0315	0181.6	059.6	29.62	

BROWN BROADCAST SERVICES
INCORPORATED

Michael D. Brown

3740 S.W. Comus St.

Portland, Oregon 97219-7418

503-245-6065

Exhibit 18e - 2nd & 3rd Adjacent Channel Contour Protection

Brown Broadcast Services, Inc.
Job: KMUZ 07052011db.fmj
Master Database: 2011_Jul_05.fmd
Lat: N44:47:00 Lon: W122:59:44 NAD-27
Scale: 1:1000000
Channel: 203 Class: A

PROPOSED
Protected: 60dBu F(50,50)
Interfering: 100dBu F(50,10)
AFFECTED
Protected: 60dBu F(50,50)
Interfering: 100dBu F(50,10)

rfInvestigator Version 3.4.27
by rfSoftware, Inc.
Date: 7/26/2011 5:54:59 PM

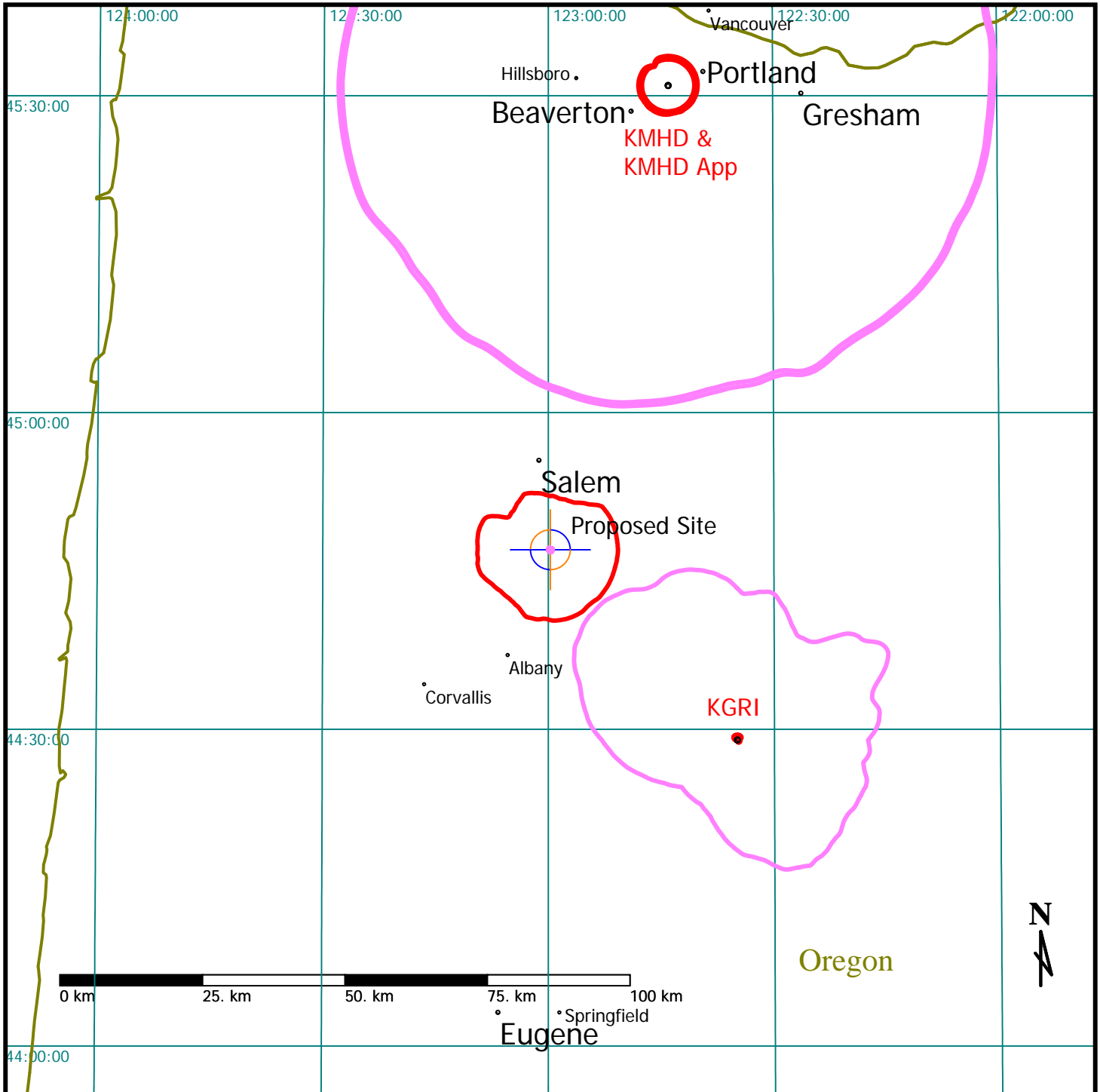


EXHIBIT 24

ENVIRONMENTAL PROTECTION ACT / NIER ANALYSIS

The applicant proposes mounting a new antenna on a 12 meter structure. The proposed center of radiation is 10m AGL. A 1 bay Shively 6810 circularly-polarized antenna will be used. Calculations were made using FM Model for Windows, version 2.10. FM Model predicted a peak exposure of $7.8\mu\text{w}/\text{cm}^2$, at 8.4 meters from the tower. This represents 3.9% of the Maximum Permissible Exposure (MPE) of $200\mu\text{w}/\text{cm}^2$ for uncontrolled environments. 47 CFR §1.1307(b)(3) exempts applicants from preparing an Environmental Assessment when the predicted exposure levels would be less than 5% of the FCC limits.

The applicant will ensure that public access to the tower is restricted by fencing, anti-climb devices, or other appropriate measures. The site will be posted with appropriate RF exposure warning signs. If tower climbing by authorized personnel becomes necessary, transmitter power will be reduced or operation will cease, as necessary, so as to not exceed the RF exposure limits.