

Implementation of Channel Change Order

The applicant hereby requests a construction permit for station KKMV(FM) Rupert, ID to implement a change as ordered by MB Docket No. 02-14¹. It is proposed to change the KKMV operating channel from 223C to 291C0, and install a directional antenna on a new tower adjacent to its existing tower. The proposed antenna site is located at the following coordinates:

N 42-20-06
W 113-36-15
(NAD 27)

In order to locate the KKMV antenna at this tower on the channel as so ordered by MB Docket No. 02-14, section 73.215 contour protection processing is requested towards KBJX 292C1 Shelley, ID, the vacant allotment ALLO 290C1 Thayne, WY, and the pending application for KOTB 291C Evanston, WY. Since Section 73.215 processing is requested, the applicant has proposed One-Step Allotment Coordinates described as follows:

N 42-23-04
W 113-41-31
(NAD 27)

At the above Allotment Coordinates, KKMV 291C0 would be fully spaced under Section 73.207 of the Rules with respect to all other authorizations. The results of the One-Step Allotment Coordinates Channel Study follow.

¹ See MB Docket No. 02-14, Report and Order in Amendment of Section 73.202(b), Table of Allotments, FM Broadcast Stations, Ketchum, Jerome and Rupert, Idaho, and Coalville, Naples, Huntsville, South Jordan, Tooele, Wellington, Castle Dale, Salina, Parowan and Payson, Utah. Adopted January 14, 2004, released January 16, 2004.

FM Channel Spacings Study

KKMV One-Step Allotment Coordinates

REFERENCE

42 23 04 N

113 41 31 W

CLASS = C0

Current Spacings

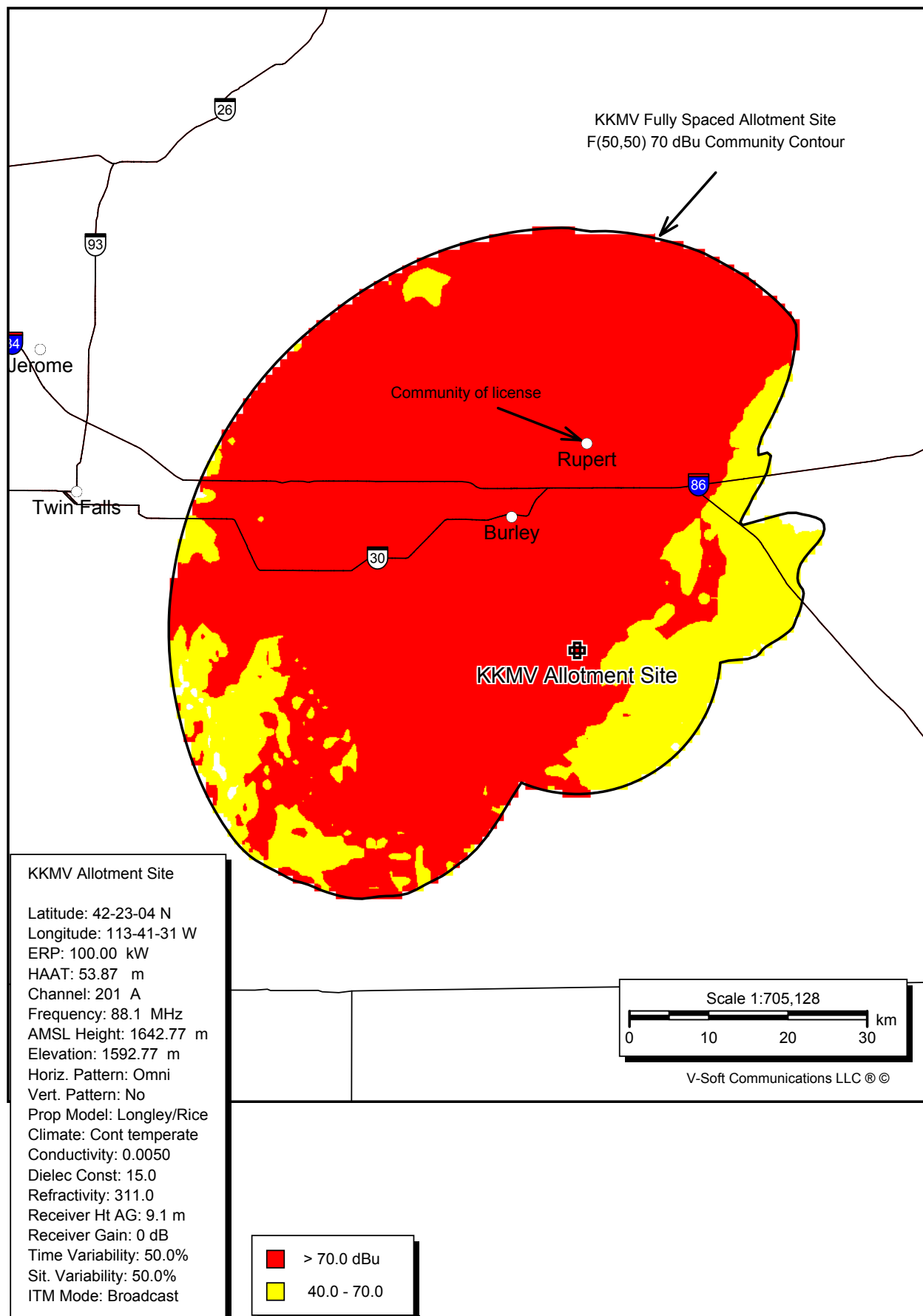
DISPLAY DATES

DATA 02-19-04

SEARCH 02-20-04

Channel 291 - 106.1 MHz

Call	Channel	Location	Dist	Azi	FCC	Margin
KOTB.A	APP 291C	Evanston	WY 280.63	126.0	281.0	-0.37
KBJX	LIC 292C1	Shelley	ID 195.67	48.2	196.0	-0.33
ALLO	VAC 290C1	Thayne	WY 195.70	76.4	196.0	-0.30
ALLO	VAC 294C	Hailey	ID 117.07	339.1	105.0	12.07
KCIX	LIC 290C	Garden City	ID 248.16	308.8	220.0	28.16
KOTB	LIC 291C3	Evanston	WY 257.98	115.5	226.0	31.98



KKMV Section 73.215 Contour Protection Study

As can be shown in the accompanying Antenna Site Channel Study, Channel 291C0 at the proposed site will satisfy the Commission's minimum separation distance requirements, specified in Section 73.207(b) of the Rules, to all assignments except to KBJX(FM) on Channel 292C1 at Shelley, ID, a Vacant Allotment ALLO 290C1 at Thayne, WY, and a **recently granted License for** KOTB(FM) on Channel 291C at Evanston, WY. The applicant respectfully requests Section 73.215 Contour Protection Processing towards these three stations.

For the purposes of the attached 73.215 Contour Protection Study, all three stations were treated as "Maximum Class" facilities at their respective coordinates. KBJX 292C1 and ALLO 290C1 were studied using Maximum Class C1 facilities with a Height Above Average Terrain of 299 meters and an Effective Radiated Power of 100 kilowatts. The KOTB pending application was studied using Maximum Class C facilities with a Height Above Average Terrain of 600 meters and an Effective Radiated Power of 100 kilowatts.

In order to protect the Maximum Class facilities of KBJX 292C1, ALLO 290C1, and KOTB 291C, KKMV proposes the use of a directional antenna. This exhibit contains a plot of the proposed directional antenna radiation pattern envelope relative field, calculated in accordance with Section 73.316(c)(2-3) of the Commission's Rules. The actual directional antenna to be used will be designed to optimally meet this pattern envelope. The ratio of the pattern envelope maximum to minimum radiation does not exceed 15 dB nor does the radiation vary more than 2 dB per 10° of azimuth, in accordance with Section 73.316(b). The antenna will be mounted on the proposed tower in accordance with the specific instructions of the antenna manufacturer. No other antennas will be mounted on the tower at the same level as the proposed directional antenna, nor will the proposed directional antenna be mounted on the tower at a distance from any other antenna such that proper operation of the directional antenna would be hindered. Any additional information required by Section 73.316 will be supplied with the application for license.

FM Channel Spacings Study

KKMV Proposed Antenna Site Requests Section 73.215 Contour Protection

REFERENCE

42 20 06 N

113 36 15 W

CLASS = C0

Current Spacings

DISPLAY DATES

DATA 02-19-04

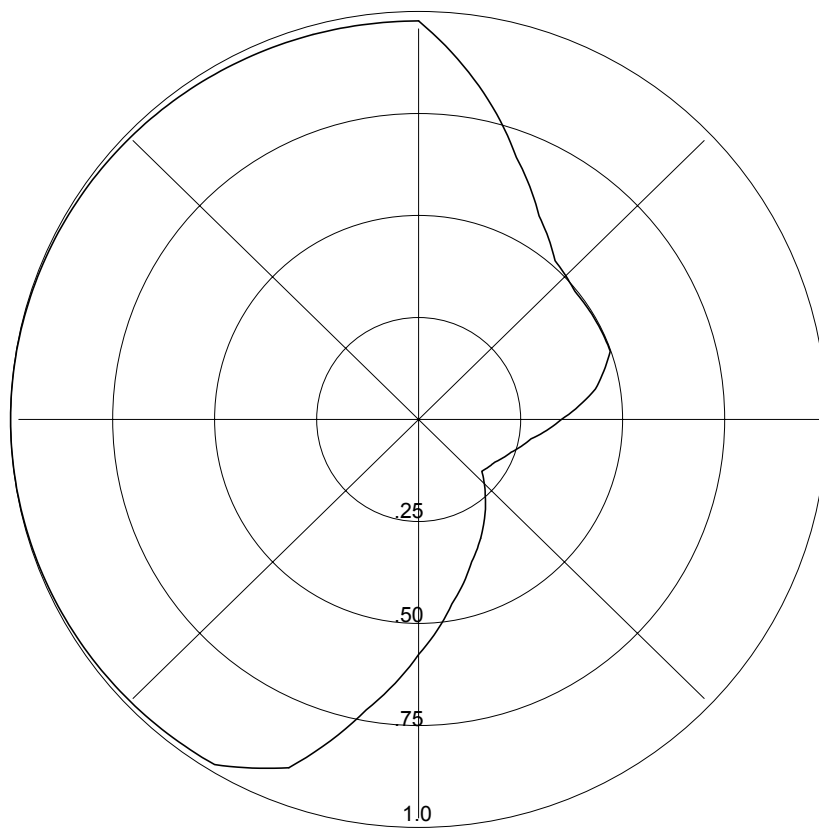
SEARCH 02-20-04

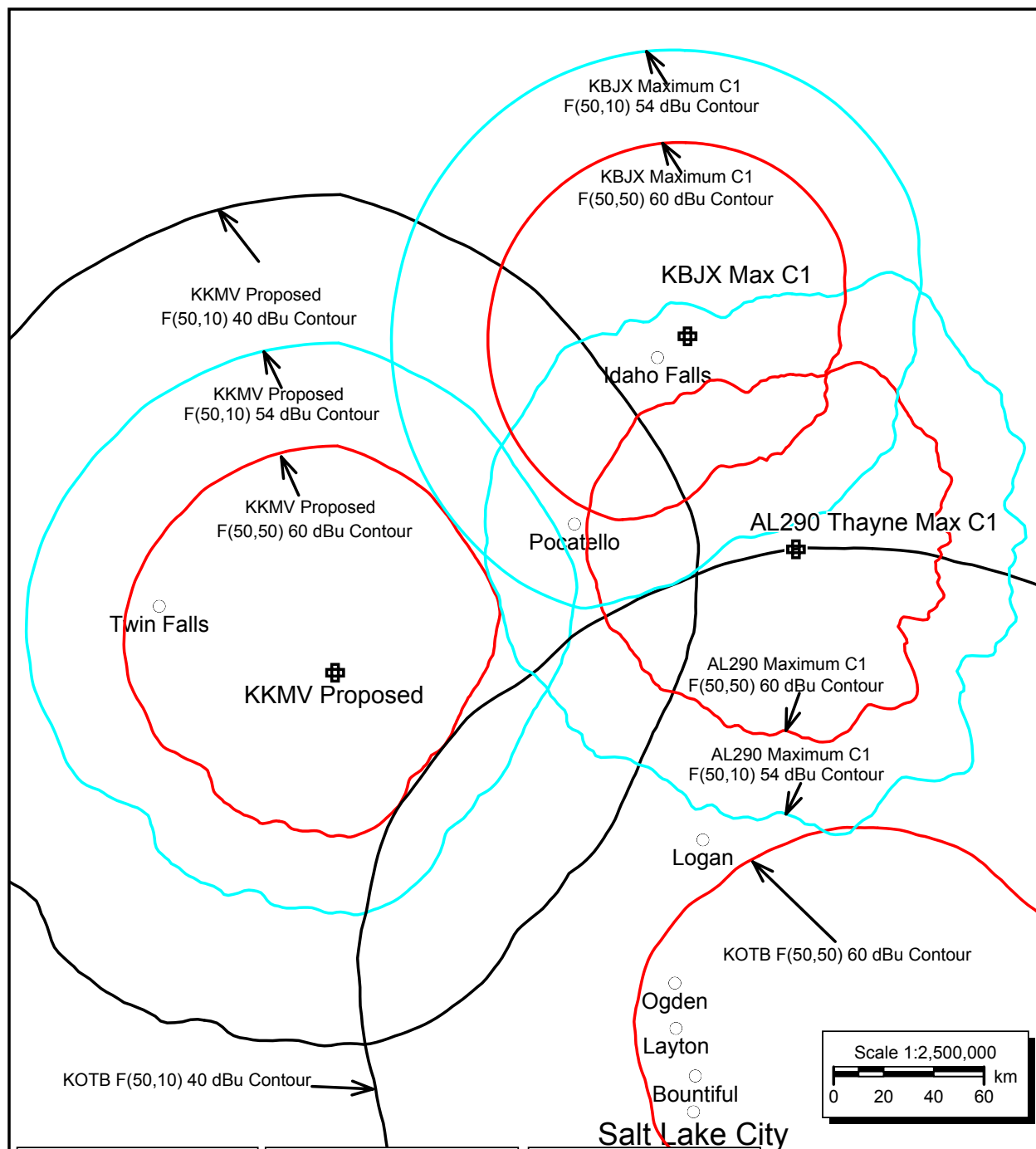
Channel 291 - 106.1 MHz

Call	Channel	Location	Dist	Azi	FCC	Margin
KOTB	LIC	291C Evanston	WY 271.55	126.0	281.0	-9.45
ALLO	VAC	290C1 Thayne	WY 190.09	74.3	196.0	-5.91
KBJX	LIC	292C1 Shelley	ID 194.13	45.6	196.0	-1.87
ALLO	VAC	294C Hailey	ID 124.88	337.0	105.0	19.88
KCIX	LIC	290C Garden City	ID 257.24	308.8	220.0	37.24

06-17-2004
InterDLG (C)

Bearing	Field Value
000	1.000
010	0.850
020	0.700
030	0.590
040	0.520
050	0.500
060	0.500
070	0.500
080	0.440
090	0.350
100	0.280
110	0.241
120	0.215
130	0.202
140	0.254
150	0.315
160	0.380
170	0.470
180	0.590
190	0.740
200	0.930
210	1.000
220	1.000
230	1.000
240	1.000
250	1.000
260	1.000
270	1.000
280	1.000
290	1.000
300	1.000
310	1.000
320	1.000
330	1.000
340	1.000
350	1.000



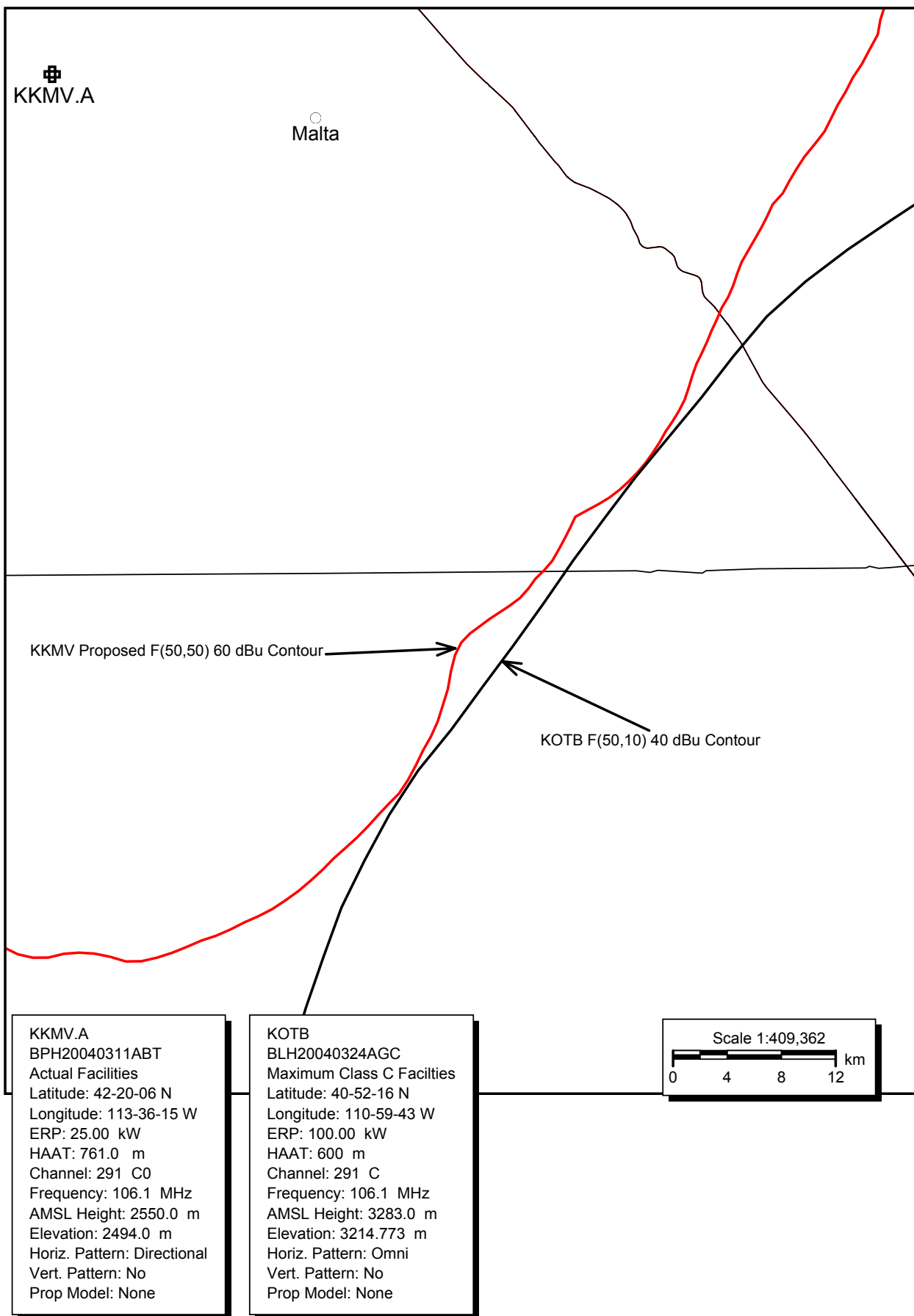


KKMV Proposed
BPH20040311ABT
Actual Facilities
Latitude: 42-20-06 N
Longitude: 113-36-15 W
ERP: 25.00 kW
HAAT: 761.0 m
Channel: 291 C0
Frequency: 106.1 MHz
AMSL Height: 2550.0 m
Elevation: 2494.0 m
Horiz. Pattern: Directional
Vert. Pattern: No
Prop Model: None

KOTB
BLH20040324AGC
Maximum Class C Facilities
Latitude: 40-52-16 N
Longitude: 110-59-43 W
ERP: 100.00 kW
HAAT: 600 m
Channel: 291 C
Frequency: 106.1 MHz
AMSL Height: 3283.0 m
Elevation: 3214.773 m
Horiz. Pattern: Omni
Vert. Pattern: No
Prop Model: None

KBJX Max C1
BLH19991215ABL
Latitude: 43-32-34 N
Longitude: 111-53-07 W
ERP: 100.00 kW
HAAT: 299.0 m
Channel: 292 C1
Frequency: 106.3 MHz
AMSL Height: 1848.7 m
Elevation: 1692.0 m
Horiz. Pattern: Omni
Vert. Pattern: No
Prop Model: None

AL290 Thayne Max C1
RM9458
Latitude: 42-46-27 N
Longitude: 111-22-02 W
ERP: 100.00 kW
HAAT: 299.0 m
Channel: 290 C1
Frequency: 105.9 MHz
AMSL Height: 2391.94 m
Elevation: 1950.57 m
Horiz. Pattern: Omni
Vert. Pattern: No
Prop Model: None



06-17-2004 30 Sec. Terrain Data

KKMV.A Proposed
Channel = 291C0
Max ERP = 25 kW
RCAMSL = 2550 M
HAAT = 761 M
N. Lat = 42 20 06
W. Lng = 113 36 15

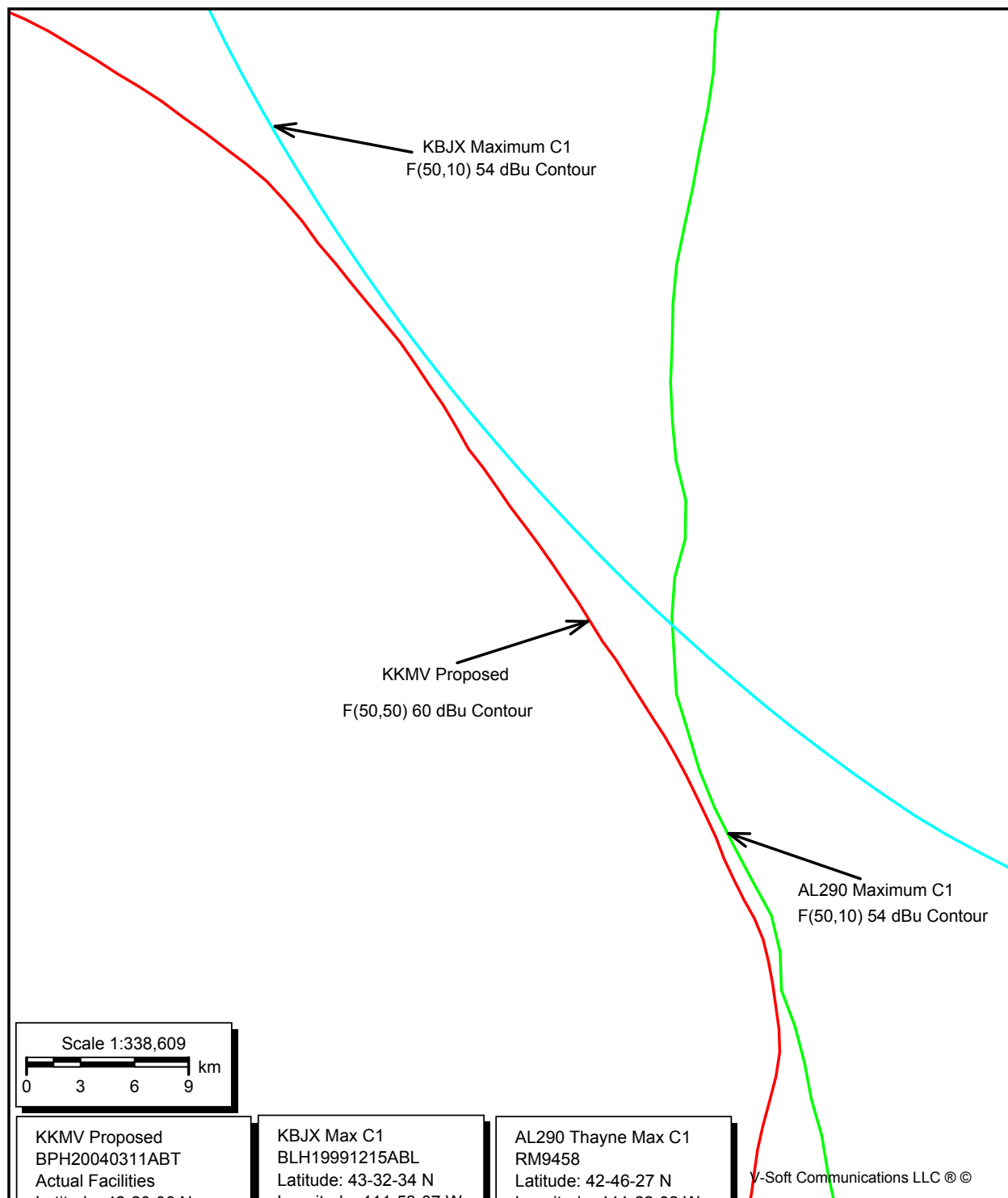
KOTB BLH20040324AGC
Channel = 291C
Max ERP = 100 kW
RCAMSL = 3283 M
HAAT = 600 M
N. Lat = 40 52 16
W. Lng = 110 59 43

Protected
60 dBu

Interfering
40 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
070.0	006.2500	0801.7	069.7	321.6	100.0000	0841.0	240.4	35.3
071.0	006.1009	0786.8	068.9	321.3	100.0000	0840.7	239.4	35.5
072.0	005.9536	0771.4	068.2	321.0	100.0000	0840.7	238.6	35.7
073.0	005.8081	0757.9	067.5	320.8	100.0000	0840.7	237.8	35.8
074.0	005.6644	0748.4	066.9	320.5	100.0000	0840.7	236.9	36.0
075.0	005.5225	0741.8	066.4	320.3	100.0000	0841.4	236.1	36.1
076.0	005.3824	0735.1	065.9	320.1	100.0000	0841.4	235.3	36.3
077.0	005.2441	0728.8	065.5	319.8	100.0000	0841.4	234.5	36.4
078.0	005.1076	0723.3	065.0	319.6	100.0000	0841.4	233.7	36.6
079.0	004.9729	0720.2	064.6	319.4	100.0000	0844.5	233.0	36.8
080.0	004.8400	0718.9	064.3	319.2	100.0000	0844.5	232.2	36.9
081.0	004.6440	0718.6	063.8	318.9	100.0000	0844.5	231.5	37.1
082.0	004.4521	0718.9	063.4	318.7	100.0000	0844.5	230.8	37.2
083.0	004.2642	0718.8	063.0	318.4	100.0000	0851.3	230.2	37.4
084.0	004.0804	0715.2	062.4	318.2	100.0000	0851.3	229.6	37.5
085.0	003.9006	0710.6	061.8	317.9	100.0000	0851.3	229.1	37.6
086.0	003.7249	0707.3	061.2	317.6	100.0000	0851.3	228.7	37.7
087.0	003.5532	0704.8	060.7	317.3	100.0000	0862.0	228.2	37.8
088.0	003.3856	0702.4	060.1	317.0	100.0000	0862.0	227.8	37.9
089.0	003.2220	0700.0	059.5	316.7	100.0000	0862.0	227.4	38.0
090.0	003.0625	0697.5	058.9	316.5	100.0000	0875.2	227.1	38.2
091.0	002.9412	0695.8	058.5	316.2	100.0000	0875.2	226.7	38.3
092.0	002.8224	0695.4	058.1	315.9	100.0000	0875.2	226.3	38.3
093.0	002.7060	0693.6	057.6	315.7	100.0000	0875.2	226.0	38.4
094.0	002.5921	0691.0	057.1	315.4	100.0000	0888.6	225.7	38.6
095.0	002.4806	0689.2	056.6	315.1	100.0000	0888.6	225.5	38.6
096.0	002.3716	0686.0	056.1	314.8	100.0000	0888.6	225.3	38.6
097.0	002.2650	0682.5	055.5	314.5	100.0000	0888.6	225.1	38.7
098.0	002.1609	0680.4	055.0	314.3	100.0000	0900.6	225.0	38.8
099.0	002.0592	0679.8	054.5	314.0	100.0000	0900.6	224.9	38.8
100.0	001.9600	0680.4	054.0	313.7	100.0000	0900.6	224.7	38.9
101.0	001.9058	0684.4	053.9	313.5	100.0000	0900.6	224.4	38.9
102.0	001.8523	0688.0	053.7	313.3	100.0000	0910.2	224.0	39.1
103.0	001.7996	0689.8	053.5	313.0	100.0000	0910.2	223.8	39.1
104.0	001.7477	0691.9	053.3	312.8	100.0000	0910.2	223.5	39.2
105.0	001.6965	0693.6	053.1	312.6	100.0000	0910.2	223.3	39.2
106.0	001.6461	0694.7	052.8	312.3	100.0000	0914.7	223.1	39.3
107.0	001.5964	0698.0	052.6	312.1	100.0000	0914.7	222.9	39.3
108.0	001.5475	0702.6	052.5	311.9	100.0000	0914.7	222.7	39.3
109.0	001.4994	0707.9	052.3	311.6	100.0000	0914.7	222.5	39.4
110.0	001.4520	0715.3	052.3	311.4	100.0000	0915.2	222.2	39.4
111.0	001.4209	0722.9	052.3	311.2	100.0000	0915.2	221.9	39.5
112.0	001.3900	0730.1	052.3	311.0	100.0000	0915.2	221.6	39.5
113.0	001.3596	0737.0	052.3	310.7	100.0000	0915.2	221.3	39.6
114.0	001.3294	0743.2	052.3	310.5	100.0000	0915.2	221.1	39.6
115.0	001.2996	0750.6	052.3	310.3	100.0000	0914.9	220.9	39.7
116.0	001.2701	0759.5	052.3	310.1	100.0000	0914.9	220.6	39.7
117.0	001.2410	0769.3	052.4	309.8	100.0000	0914.9	220.4	39.7
118.0	001.2122	0779.0	052.5	309.6	100.0000	0914.9	220.1	39.8

119.0	001.1837	0787.1	052.5		309.4	100.0000	0916.1	220.0	39.8
120.0	001.1556	0793.6	052.4		309.1	100.0000	0916.1	219.9	39.8
121.0	001.1417	0798.9	052.5		308.9	100.0000	0916.1	219.7	39.9
122.0	001.1278	0803.0	052.4		308.6	100.0000	0916.1	219.7	39.9
123.0	001.1141	0805.4	052.4		308.4	100.0000	0918.6	219.6	39.9
124.0	001.1004	0805.6	052.3		308.2	100.0000	0918.6	219.7	39.9
125.0	001.0868	0803.4	052.1		307.9	100.0000	0918.6	219.8	39.9
126.0	001.0733	0799.3	051.9		307.7	100.0000	0918.6	220.0	39.8
127.0	001.0599	0793.5	051.6		307.5	100.0000	0921.3	220.3	39.8
128.0	001.0465	0786.6	051.3		307.2	100.0000	0921.3	220.7	39.8
129.0	001.0333	0778.6	050.9		307.0	100.0000	0921.3	221.1	39.7
130.0	001.0201	0769.7	050.5		306.8	100.0000	0921.3	221.5	39.6
131.0	001.0733	0760.6	050.7		306.5	100.0000	0921.3	221.4	39.6
132.0	001.1278	0751.9	051.0		306.3	100.0000	0924.0	221.3	39.7
133.0	001.1837	0743.5	051.2		306.1	100.0000	0924.0	221.2	39.7
134.0	001.2410	0734.7	051.4		305.8	100.0000	0924.0	221.1	39.7
135.0	001.2996	0724.9	051.5		305.6	100.0000	0924.0	221.1	39.7
136.0	001.3596	0714.4	051.6		305.4	100.0000	0927.1	221.2	39.7
137.0	001.4209	0703.6	051.7		305.1	100.0000	0927.1	221.4	39.7
138.0	001.4835	0692.5	051.7		304.9	100.0000	0927.1	221.5	39.7
139.0	001.5475	0679.6	051.7		304.7	100.0000	0927.1	221.8	39.6
140.0	001.6129	0665.3	051.6		304.5	100.0000	0930.9	222.1	39.6
141.0	001.6913	0651.4	051.6		304.3	100.0000	0930.9	222.4	39.6
142.0	001.7716	0640.2	051.6		304.0	100.0000	0930.9	222.6	39.5
143.0	001.8537	0632.0	051.8		303.8	100.0000	0930.9	222.8	39.5
144.0	001.9377	0628.2	052.1		303.6	100.0000	0930.9	222.9	39.5
145.0	002.0235	0629.5	052.5		303.3	100.0000	0935.6	222.8	39.5
146.0	002.1112	0635.5	053.2		303.0	100.0000	0935.6	222.6	39.6
147.0	002.2008	0644.9	053.9		302.7	100.0000	0935.6	222.3	39.6
148.0	002.2922	0656.8	054.7		302.4	100.0000	0940.2	222.0	39.7
149.0	002.3855	0669.4	055.6		302.1	100.0000	0940.2	221.7	39.8
150.0	002.4806	0680.7	056.3		301.8	100.0000	0940.2	221.5	39.8
151.0	002.5841	0689.9	057.0		301.4	100.0000	0943.9	221.4	39.8
152.0	002.6896	0698.1	057.7		301.1	100.0000	0943.9	221.4	39.9
153.0	002.7973	0704.1	058.3		300.8	100.0000	0943.9	221.5	39.8
154.0	002.9070	0707.6	058.8		300.5	100.0000	0943.9	221.6	39.8
155.0	003.0189	0710.0	059.2		300.3	100.0000	0946.0	221.9	39.8
156.0	003.1329	0712.9	059.7		300.0	100.0000	0946.0	222.1	39.8
157.0	003.2490	0715.7	060.1		299.7	100.0000	0946.0	222.4	39.7
158.0	003.3672	0718.2	060.6		299.4	100.0000	0946.3	222.7	39.7
159.0	003.4876	0720.8	061.0		299.1	100.0000	0946.3	223.1	39.6
160.0	003.6100	0723.3	061.4		298.8	100.0000	0946.3	223.5	39.5
161.0	003.7830	0724.7	061.9		298.6	100.0000	0946.3	223.8	39.5
162.0	003.9601	0724.8	062.4		298.3	100.0000	0945.2	224.3	39.4
163.0	004.1412	0724.4	062.9		298.0	100.0000	0945.2	224.7	39.3
164.0	004.3264	0722.6	063.2		297.7	100.0000	0945.2	225.3	39.2
165.0	004.5156	0718.6	063.6		297.5	100.0000	0942.7	225.9	39.1
166.0	004.7089	0713.3	063.8		297.3	100.0000	0942.7	226.6	39.0
167.0	004.9062	0708.5	064.1		297.0	100.0000	0942.7	227.3	38.8
168.0	005.1076	0705.0	064.4		296.8	100.0000	0942.7	228.0	38.7
169.0	005.3130	0701.3	064.7		296.6	100.0000	0942.7	228.7	38.6
170.0	005.5225	0697.1	064.9		296.4	100.0000	0937.7	229.5	38.4
171.0	005.8081	0692.0	065.3		296.1	100.0000	0937.7	230.2	38.3
172.0	006.1009	0684.3	065.5		295.9	100.0000	0937.7	231.0	38.1
173.0	006.4009	0673.5	065.7		295.7	100.0000	0937.7	231.9	38.0
174.0	006.7081	0660.3	065.7		295.6	100.0000	0937.7	232.9	37.8
175.0	007.0225	0643.9	065.6		295.5	100.0000	0930.1	233.9	37.5
176.0	007.3441	0627.4	065.4		295.4	100.0000	0930.1	235.0	37.3
177.0	007.6729	0610.7	065.3		295.3	100.0000	0930.1	236.1	37.1
178.0	008.0089	0597.6	065.2		295.2	100.0000	0930.1	237.1	36.9
179.0	008.3521	0587.4	065.2		295.1	100.0000	0930.1	238.1	36.7
180.0	008.7025	0577.6	065.3		294.9	100.0000	0930.1	239.2	36.6



KKMV Proposed
BPH20040311ABT
Actual Facilities
Latitude: 42-20-06 N
Longitude: 113-36-15 W
ERP: 25.00 kW
HAAT: 761.0 m
Channel: 291 C0
Frequency: 106.1 MHz
AMSL Height: 2550.0 m
Elevation: 2494.0 m
Horiz. Pattern: Directional
Vert. Pattern: No
Prop Model: None

KBJX Max C1
BLH19991215ABL
Latitude: 43-32-34 N
Longitude: 111-53-07 W
ERP: 100.00 kW
HAAT: 299.0 m
Channel: 292 C1
Frequency: 106.3 MHz
AMSL Height: 1848.7 m
Elevation: 1692.0 m
Horiz. Pattern: Omni
Vert. Pattern: No
Prop Model: None

AL290 Thayne Max C1
RM9458
Latitude: 42-46-27 N
Longitude: 111-22-02 W
ERP: 100.00 kW
HAAT: 299.0 m
Channel: 290 C1
Frequency: 105.9 MHz
AMSL Height: 2391.94 m
Elevation: 1950.57 m
Horiz. Pattern: Omni
Vert. Pattern: No
Prop Model: None

06-17-2004 30 Sec. Terrain Data

KKMV.A
Channel = 291C0
Max ERP = 25 kW
RCAMSL = 2550 M
HAAT = 761 M
N. Lat = 42 20 06
W. Lng = 113 36 15

KBJX BLH19991215ABL
Channel = 292C1
Max ERP = 100 kW
RCAMSL = 1846.25 M
HAAT = 299 M
N. Lat = 43 32 34
W. Lng = 111 53 07

Protected
60 dBu

Interfering
54 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
009.0	018.7056	1017.4	086.7	249.4	100.0000	0401.7	135.0	49.8
010.0	018.0625	1014.1	086.2	248.9	100.0000	0401.7	133.8	50.1
011.0	017.4306	1011.9	085.8	248.4	100.0000	0401.9	132.8	50.4
012.0	016.8100	1010.5	085.4	247.8	100.0000	0401.9	131.8	50.6
013.0	016.2006	1009.9	085.0	247.3	100.0000	0402.2	130.9	50.9
014.0	015.6025	1012.1	084.6	246.8	100.0000	0402.2	129.9	51.1
015.0	015.0156	1017.5	084.3	246.3	100.0000	0402.6	128.9	51.4
016.0	014.4400	1025.3	084.0	245.7	100.0000	0402.6	128.0	51.6
017.0	013.8756	1034.0	083.7	245.2	100.0000	0403.0	127.1	51.9
018.0	013.3225	1041.5	083.4	244.7	100.0000	0403.0	126.2	52.1
019.0	012.7806	1047.6	083.1	244.1	100.0000	0403.3	125.4	52.3
020.0	012.2500	1053.0	082.8	243.5	100.0000	0403.5	124.7	52.5
021.0	011.8680	1057.6	082.5	242.9	100.0000	0403.5	123.9	52.7
022.0	011.4921	1061.5	082.2	242.3	100.0000	0403.7	123.2	52.9
023.0	011.1222	1065.1	081.9	241.7	100.0000	0403.7	122.5	53.0
024.0	010.7584	1068.4	081.6	241.1	100.0000	0403.9	121.9	53.2
025.0	010.4006	1071.4	081.3	240.5	100.0000	0404.0	121.3	53.4
026.0	010.0489	1073.8	081.0	239.8	100.0000	0404.0	120.8	53.5
027.0	009.7032	1074.9	080.6	239.2	100.0000	0403.9	120.4	53.6
028.0	009.3636	1072.4	080.2	238.5	100.0000	0403.9	120.0	53.7
029.0	009.0300	1066.6	079.7	237.8	100.0000	0403.9	119.8	53.7
030.0	008.7025	1058.7	079.1	237.1	100.0000	0403.9	119.6	53.8
031.0	008.4972	1049.7	078.7	236.4	100.0000	0403.9	119.4	53.8
032.0	008.2944	1040.6	078.3	235.7	100.0000	0403.9	119.3	53.9
033.0	008.0940	1031.9	077.8	235.0	100.0000	0403.9	119.2	53.9
034.0	007.8961	1022.9	077.4	234.3	100.0000	0403.8	119.1	53.9
035.0	007.7006	1013.2	076.9	233.6	100.0000	0403.8	119.1	53.9
036.0	007.5076	1003.7	076.5	232.9	100.0000	0403.7	119.2	53.9
037.0	007.3170	0994.8	076.0	232.3	100.0000	0403.5	119.3	53.9
038.0	007.1289	0986.0	075.5	231.6	100.0000	0403.5	119.4	53.8
039.0	006.9432	0976.9	075.1	230.9	100.0000	0403.3	119.6	53.8
040.0	006.7600	0967.8	074.6	230.3	100.0000	0403.2	119.8	53.7
041.0	006.7081	0959.0	074.3	229.6	100.0000	0403.2	119.9	53.7
042.0	006.6564	0950.7	074.1	229.0	100.0000	0403.2	120.0	53.7
043.0	006.6049	0943.4	073.8	228.4	100.0000	0403.3	120.1	53.6
044.0	006.5536	0937.5	073.6	227.8	100.0000	0403.3	120.2	53.6
045.0	006.5025	0933.2	073.4	227.1	100.0000	0403.3	120.3	53.6
046.0	006.4516	0928.8	073.3	226.5	100.0000	0403.3	120.5	53.5
047.0	006.4009	0923.3	073.1	225.9	100.0000	0403.2	120.7	53.5
048.0	006.3504	0917.2	072.8	225.3	100.0000	0403.1	121.0	53.4
049.0	006.3001	0911.6	072.6	224.7	100.0000	0403.1	121.3	53.3
050.0	006.2500	0906.0	072.4	224.2	100.0000	0403.2	121.6	53.3
051.0	006.2500	0900.1	072.3	223.6	100.0000	0403.2	121.9	53.2
052.0	006.2500	0894.7	072.2	223.0	100.0000	0403.3	122.2	53.1
053.0	006.2500	0890.7	072.1	222.4	100.0000	0403.4	122.6	53.0
054.0	006.2500	0887.6	072.0	221.9	100.0000	0403.4	122.9	52.9
055.0	006.2500	0884.2	071.9	221.3	100.0000	0403.6	123.3	52.9
056.0	006.2500	0879.5	071.8	220.8	100.0000	0403.6	123.7	52.7
057.0	006.2500	0873.8	071.7	220.2	100.0000	0403.9	124.2	52.6

058.0	006.2500	0868.3	071.5		219.7	100.0000	0403.9	124.7	52.5
059.0	006.2500	0863.5	071.4		219.2	100.0000	0404.1	125.2	52.4
060.0	006.2500	0859.4	071.3		218.7	100.0000	0404.1	125.8	52.2
061.0	006.2500	0856.4	071.2		218.2	100.0000	0404.0	126.3	52.1
062.0	006.2500	0854.5	071.2		217.7	100.0000	0404.0	126.9	51.9
063.0	006.2500	0853.4	071.1		217.2	100.0000	0403.7	127.5	51.8
064.0	006.2500	0851.3	071.1		216.7	100.0000	0403.7	128.1	51.6
065.0	006.2500	0847.6	071.0		216.2	100.0000	0403.4	128.8	51.5
066.0	006.2500	0841.7	070.8		215.8	100.0000	0403.4	129.5	51.3
067.0	006.2500	0833.8	070.6		215.4	100.0000	0402.9	130.4	51.0
068.0	006.2500	0824.0	070.3		215.0	100.0000	0402.9	131.3	50.8
069.0	006.2500	0813.6	070.0		214.6	100.0000	0402.9	132.2	50.6
070.0	006.2500	0801.7	069.7		214.3	100.0000	0402.1	133.2	50.3
071.0	006.1009	0786.8	068.9		214.0	100.0000	0402.1	134.5	50.0
072.0	005.9536	0771.4	068.2		213.8	100.0000	0402.1	135.8	49.6
073.0	005.8081	0757.9	067.5		213.7	100.0000	0402.1	137.1	49.3
074.0	005.6644	0748.4	066.9		213.4	100.0000	0401.0	138.3	49.0
075.0	005.5225	0741.8	066.4		213.2	100.0000	0401.0	139.5	48.7
076.0	005.3824	0735.1	065.9		213.0	100.0000	0401.0	140.6	48.4
077.0	005.2441	0728.8	065.5		212.8	100.0000	0401.0	141.8	48.2
078.0	005.1076	0723.3	065.0		212.6	100.0000	0401.0	142.9	47.9
079.0	004.9729	0720.2	064.6		212.4	100.0000	0399.8	144.0	47.7
080.0	004.8400	0718.9	064.3		212.2	100.0000	0399.8	145.1	47.4
081.0	004.6440	0718.6	063.8		212.1	100.0000	0399.8	146.2	47.2
082.0	004.4521	0718.9	063.4		211.9	100.0000	0399.8	147.3	47.0
083.0	004.2642	0718.8	063.0		211.8	100.0000	0399.8	148.5	46.8

06-17-2004 30 Sec. Terrain Data

KKMV.A
Channel = 291C0
Max ERP = 25 kW
RCAMSL = 2550 M
HAAT = 761 M
N. Lat = 42 20 06
W. Lng = 113 36 15

Protected
60 dBu

AL290 Thayne, WY RM9458
Channel = 290C1
Max ERP = 100 kW
RCAMSL = 2389.81 M
HAAT = 299 M
N. Lat = 42 46 27
W. Lng = 111 22 02

Interfering
54 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
044.0	006.5536	0937.5	073.6	272.4	100.0000	0447.2	132.1	51.8
045.0	006.5025	0933.2	073.4	271.9	100.0000	0447.2	131.1	52.1
046.0	006.4516	0928.8	073.3	271.5	100.0000	0446.2	130.4	52.3
047.0	006.4009	0923.3	073.1	271.0	100.0000	0446.2	129.6	52.5
048.0	006.3504	0917.2	072.8	270.5	100.0000	0446.2	128.9	52.6
049.0	006.3001	0911.6	072.6	270.0	100.0000	0444.0	128.3	52.7
050.0	006.2500	0906.0	072.4	269.5	100.0000	0444.0	127.6	52.9
051.0	006.2500	0900.1	072.3	269.0	100.0000	0441.5	127.0	53.0
052.0	006.2500	0894.7	072.2	268.5	100.0000	0441.5	126.3	53.2
053.0	006.2500	0890.7	072.1	268.0	100.0000	0439.0	125.7	53.3
054.0	006.2500	0887.6	072.0	267.5	100.0000	0439.0	125.1	53.4
055.0	006.2500	0884.2	071.9	267.0	100.0000	0436.5	124.5	53.5
056.0	006.2500	0879.5	071.8	266.5	100.0000	0436.5	124.0	53.6
057.0	006.2500	0873.8	071.7	266.0	100.0000	0433.4	123.5	53.6
058.0	006.2500	0868.3	071.5	265.4	100.0000	0428.0	123.0	53.6
059.0	006.2500	0863.5	071.4	264.9	100.0000	0428.0	122.6	53.7
060.0	006.2500	0859.4	071.3	264.3	100.0000	0422.5	122.2	53.7
061.0	006.2500	0856.4	071.2	263.8	100.0000	0422.5	121.8	53.8
062.0	006.2500	0854.5	071.2	263.2	100.0000	0416.9	121.4	53.7
063.0	006.2500	0853.4	071.1	262.6	100.0000	0416.9	121.0	53.8
064.0	006.2500	0851.3	071.1	262.1	100.0000	0412.4	120.7	53.8
065.0	006.2500	0847.6	071.0	261.5	100.0000	0411.9	120.5	53.8
066.0	006.2500	0841.7	070.8	260.9	100.0000	0411.9	120.3	53.8
067.0	006.2500	0833.8	070.6	260.3	100.0000	0411.9	120.3	53.9
068.0	006.2500	0824.0	070.3	259.7	100.0000	0411.9	120.3	53.8
069.0	006.2500	0813.6	070.0	259.1	100.0000	0411.8	120.4	53.8
070.0	006.2500	0801.7	069.7	258.5	100.0000	0411.4	120.6	53.8
071.0	006.1009	0786.8	068.9	257.9	100.0000	0411.4	121.1	53.6
072.0	005.9536	0771.4	068.2	257.3	100.0000	0412.8	121.8	53.5
073.0	005.8081	0757.9	067.5	256.7	100.0000	0412.8	122.4	53.3
074.0	005.6644	0748.4	066.9	256.2	100.0000	0414.7	122.9	53.3
075.0	005.5225	0741.8	066.4	255.6	100.0000	0414.7	123.4	53.1
076.0	005.3824	0735.1	065.9	255.1	100.0000	0416.4	123.9	53.0
077.0	005.2441	0728.8	065.5	254.6	100.0000	0416.4	124.5	52.9
078.0	005.1076	0723.3	065.0	254.1	100.0000	0417.5	125.0	52.8
079.0	004.9729	0720.2	064.6	253.6	100.0000	0417.5	125.5	52.7
080.0	004.8400	0718.9	064.3	253.1	100.0000	0417.1	126.0	52.5
081.0	004.6440	0718.6	063.8	252.6	100.0000	0417.1	126.6	52.4
082.0	004.4521	0718.9	063.4	252.1	100.0000	0416.1	127.2	52.2
083.0	004.2642	0718.8	063.0	251.7	100.0000	0416.1	127.9	52.0
084.0	004.0804	0715.2	062.4	251.3	100.0000	0413.9	128.7	51.8
085.0	003.9006	0710.6	061.8	250.9	100.0000	0413.9	129.6	51.6
086.0	003.7249	0707.3	061.2	250.5	100.0000	0410.1	130.4	51.2
087.0	003.5532	0704.8	060.7	250.1	100.0000	0410.1	131.3	51.0
088.0	003.3856	0702.4	060.1	249.8	100.0000	0410.1	132.1	50.8
089.0	003.2220	0700.0	059.5	249.4	100.0000	0403.6	133.0	50.4
090.0	003.0625	0697.5	058.9	249.1	100.0000	0403.6	134.0	50.1
091.0	002.9412	0695.8	058.5	248.8	100.0000	0403.6	134.8	49.9
092.0	002.8224	0695.4	058.1	248.4	100.0000	0394.9	135.6	49.5

093.0	002.7060	0693.6	057.6		248.1	100.0000	0394.9	136.5	49.3
094.0	002.5921	0691.0	057.1		247.9	100.0000	0394.9	137.4	49.0
095.0	002.4806	0689.2	056.6		247.6	100.0000	0394.9	138.3	48.8
096.0	002.3716	0686.0	056.1		247.3	100.0000	0385.8	139.2	48.3
097.0	002.2650	0682.5	055.5		247.1	100.0000	0385.8	140.2	48.1
098.0	002.1609	0680.4	055.0		246.9	100.0000	0385.8	141.2	47.9
099.0	002.0592	0679.8	054.5		246.7	100.0000	0385.8	142.1	47.7
100.0	001.9600	0680.4	054.0		246.5	100.0000	0377.3	143.0	47.3
101.0	001.9058	0684.4	053.9		246.2	100.0000	0377.3	143.7	47.1
102.0	001.8523	0688.0	053.7		245.9	100.0000	0377.3	144.4	47.0
103.0	001.7996	0689.8	053.5		245.7	100.0000	0377.3	145.1	46.9
104.0	001.7477	0691.9	053.3		245.4	100.0000	0370.7	145.9	46.5