

KRFD(FM)
South Park, WY
Proposed Minor Modification
Of Permitted Facility

CONTINGENT Application Overview:

The instant Application is being filed contingently and contemporaneously with the proposed one-step upgrade of station KRID(FM) (FCC Facility ID# 164126) Ashton, ID, to Channel 283C1. It should be noted that both facilities are co-owned and, therefore, a contingent application agreement is unnecessary. KRFD(FM) (FCC Facility ID# 164154) proposes to change its Community of License from Thayne, WY, to South Park, WY, and modify its currently Permitted Facilities using the following parameters:

Tech Box:

Channel:	286
Class:	C2
Antenna Coordinates:	N43-27-39, W110-45-09 (NAD 27)
Allotment Ref. Coordinates:	N43-23-42, W110-45-27(NAD 27)
ASRN:	N/A
Tower Height AMSL:	60.6 m
COR AMSL:	2479 m
COR AGL:	48 m
COR HAAT:	320 m
ERP:	11 kW
Directional Antenna:	No

Allotment Modifications:

Exhibit 1 is an allotment reference site channel spacings study for KRFD(FM) on Channel 286C2 at South Park, WY, demonstrating that the proposed facility is fully spaced pursuant to Section 73.207 towards all other authorizations, allotments, and proposals with the exception of the currently proposed application for FCC Facility ID# 166043 to conduct a Community of License Change from Dubois, WY, to Teton Village, WY (see BMPH-20080201BPB) from the following location:

Allotment Reference Coordinates: N43-23-42, W110-45-27 (NAD 27)

If the Commission determines that the Teton Village application is grantable, the Applicant respectfully requests that Channel 265A be involuntarily substituted for Channel 284A at the proposed Antenna Site at Teton Village. Exhibit 6 is a channel spacings study demonstrating that the Channel 265A would be fully spaced pursuant to Section 73.207 towards all other authorizations, allotments, and proposals and the Applicant respectfully requests that the Commission issue an Order to Show Cause to Lorenz E. Proietti (“Proiette”), permittee of FCC Facility #166043, as to why its licensed channel should not be substituted with Channel 265A at its proposed site. Applicant hereby states that it will reimburse Proiette for his reasonable expenses in changing his station to Channel 265A in accordance with *Circleville, Ohio*, 8 FCC 2d 159 (1967).

Allotment Site City-Grade Coverage:

In accordance with the city grade coverage requirements of Section 73.315, Exhibit 2 demonstrates that the proposed allotment site provides requisite coverage of KRFD(FM)’s

community of license – South Park, WY. As can be seen in the Exhibit, 100% of South Park’s community boundaries are encompassed by the theoretical 70 dBu, circle contour. Also, no terrain obstructions are located between the antenna site and the community.

Suitable Allotment Reference Site:

In accordance with Note 1 to Section 73.3573, Exhibit 3 is a site map showing that the allotment reference site is located at a suitable location and is not offshore, in a national or state park, on an airport or otherwise in an area which would necessarily present a hazard to air navigation.

Antenna Site City-Grade Coverage:

Exhibit 4 demonstrates that the proposed facility’s antenna site provides city grade coverage of KRFD(FM)’s community of license – South Park, WY. As can be seen in the Exhibit, 100% of South Park’s community boundaries are encompassed by the F(50,50) 70 dBu contour of the proposed facility.

Interference Study (Requesting Section 73.215 Contour Protection):

Exhibit 5 is a channel spacings study from the proposed KRFD(FM) antenna site. It notes that since the shortspacings to the proposed facilities for FCC Facility ID# 166043 were addressed in the allotment stage hereto, the proposed KRFD(FM) antenna site would otherwise be slightly shortspaced to:

-RADD Ashton, ID 283C1 (Allotment Site in Contingently Proposed KRID Application)

Therefore, the applicant requests Section 73.215 contour protection processing.

KRFD(FM) is eligible to request 73.215 Contour Protection towards RADD as it complies with the minimum separation requirements on its third adjacent channel at its proposed antenna site. The channel spacings study in Exhibit 5 shows that the proposed KRFD(FM) 286C2 antenna location is spaced 76.25 kilometers from the RADD site. In order to be eligible for 73.215 Contour Protection, the minimum “C2 to C1” spacing for third adjacent channel stations must be at least 70 kilometers. The proposed KRFD(FM) 286C2 antenna site satisfies this requirement by 6.25 kilometers.

Using the facilities proposed herein, KRFD(FM) 286C2 complies with the contour protection requirements of Section 73.215 towards RADD. The attached overlap tabulation studies and overlap map in Exhibit 5A demonstrates that this application complies with the contour protection requirements of Section 73.215.

It should be noted that the following overlap studies were conducted assuming “Maximized” Class C1 Facilities for RADD (100 kW at an HAAT of 299 meters).

Using the KRFD(FM) 286C2 technical parameters proposed in this application, Exhibit 5A demonstrates that the proposed KRFD(FM) F(50,50) 60 dBu Protected Contour does not overlap the F(50,10) 100 dBu Interfering Contour of RADD operations on Channel 283C1. Likewise, Exhibit 5A demonstrates that the F(50,50) 60 dBu Protected Contour for RADD does not overlap the proposed F(50,10) 100 dBu Interfering Contour of the instant KRFD(FM)

application on 286C2. Therefore, it appears as though the instant application meets the requirements of Section 73.215 towards RADD.

Downward Radiation Study (Measure Upon Construction)

Due to the fact that several existing and proposed emitters are located at or near the site, the applicant agrees to conduct a Radiofrequency Electromagnetic Field survey at the site upon construction of the proposed facility to ensure that any areas at ground level that exceed the Commission's exposure guideline values are appropriately marked and fenced. The results of the survey will be provided with the application for license.

Even though the site will fully comply with the Site Standards, access to the transmitting site will be restricted and appropriately marked with warning signs. When it becomes necessary for workers to ascend the tower, appropriate measures, such as reduction or shut down of power if necessary, shall be taken to ensure that the human exposure to radiofrequency radiation will not exceed the FCC guidelines.

Existing Tower:

The proposed facility is exempt from environmental processing because the facility is not located at a location specified in Section 1.1307(a)(1)-(8) of the Commission's Rules and since the tower in question already exists.

Exhibit 1

Allotment Reference Site Channel Spacings Study

RADD 286C2 South Park, WY
Section 73.207 Allotment Site Channel Study

REFERENCE
43 23 42.0 N.
110 45 27.0 W.

CLASS = C2
Current Spacings

DISPLAY DATES
DATA 04-03-08
SEARCH 04-03-08

----- Channel 286 - 105.1 MHz -----

Call	Channel	Location	Azi	Dist	FCC	Margin
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RADD	ADD	286C1	Thayne	WY	203.2	56.85	223.5	-166.65
KRFD	CP	286C3	Thayne	WY	222.6	43.71	176.5	-132.79

Of Note:

Mutually Exclusive current authorization as ordered in MB Docket 05-243.

1231733	RSV	284A	Teton Village	WY	337.8	16.44	54.5	-38.06
1230828	APP-N	284A	Teton Village	WY	346.3	24.49	54.5	-30.01

Of Concern:

If the Commission determines that the Application for Channel 284A at Teton Village in BMPH-20080201BPB is grantable, the Applicant proposes an Involuntary Channel Substitution of Channel 249A at Teton Village for use by Facility ID 166043 in place of Channel 284A and agrees to reimburse applicant in accordance with with Circleville, Ohio, 8 FCC 2d 159 (1967).

RDEL	DEL	286A	Dubois	ID	306.8	146.90	165.5	-18.60
AL3583	VAC	286A	Dubois	ID	306.8	146.90	165.5	-18.60

Of No Concern:

Channel 243A substituted for Channel 286A at Dubois, ID, in MB Docket 05-243.

RADD	ADD	283C1	Ashton	ID	295.5	78.71	78.5	0.21
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Of Note:

Contingently proposed Allotment Site for Channel 283C1 at Ashton, ID.

RDEL	DEL	284C2	Dubois	WY	61.9	66.44	57.5	8.94
NEW	CP -N	284C2	Dubois	WY	61.9	66.44	57.5	8.94
KTUG	CP	286C3	Hudson	WY	106.2	199.26	176.5	22.76
KTHK	LIC-D	288C1	Idaho Falls	ID	267.7	101.31	78.5	22.81
RADD	ADD	283A	Ashton	ID	314.7	92.38	54.5	37.88
KDWY	LIC	287C2	Di amondville	WY	173.1	174.17	129.5	44.67
RDEL	DEL	287C2	Di amondville	WY	173.1	174.17	129.5	44.67

Exhibit 1B

**Proposed Involuntary Channel Substitution
Channel Spacings Study
Channel 265A Teton Village, WY
(Antenna Site – BMPH-20080201BPB)**

Facility 166043 Teton Village, WY
Section 73.207 Antenna Site Channel Study

REFERENCE
43 36 33.0 N.
110 49 46.0 W.

CLASS = A
Current Spacings

DISPLAY DATES
DATA 04-03-08
SEARCH 04-03-08

----- Channel 265 - 100.9 MHz -----

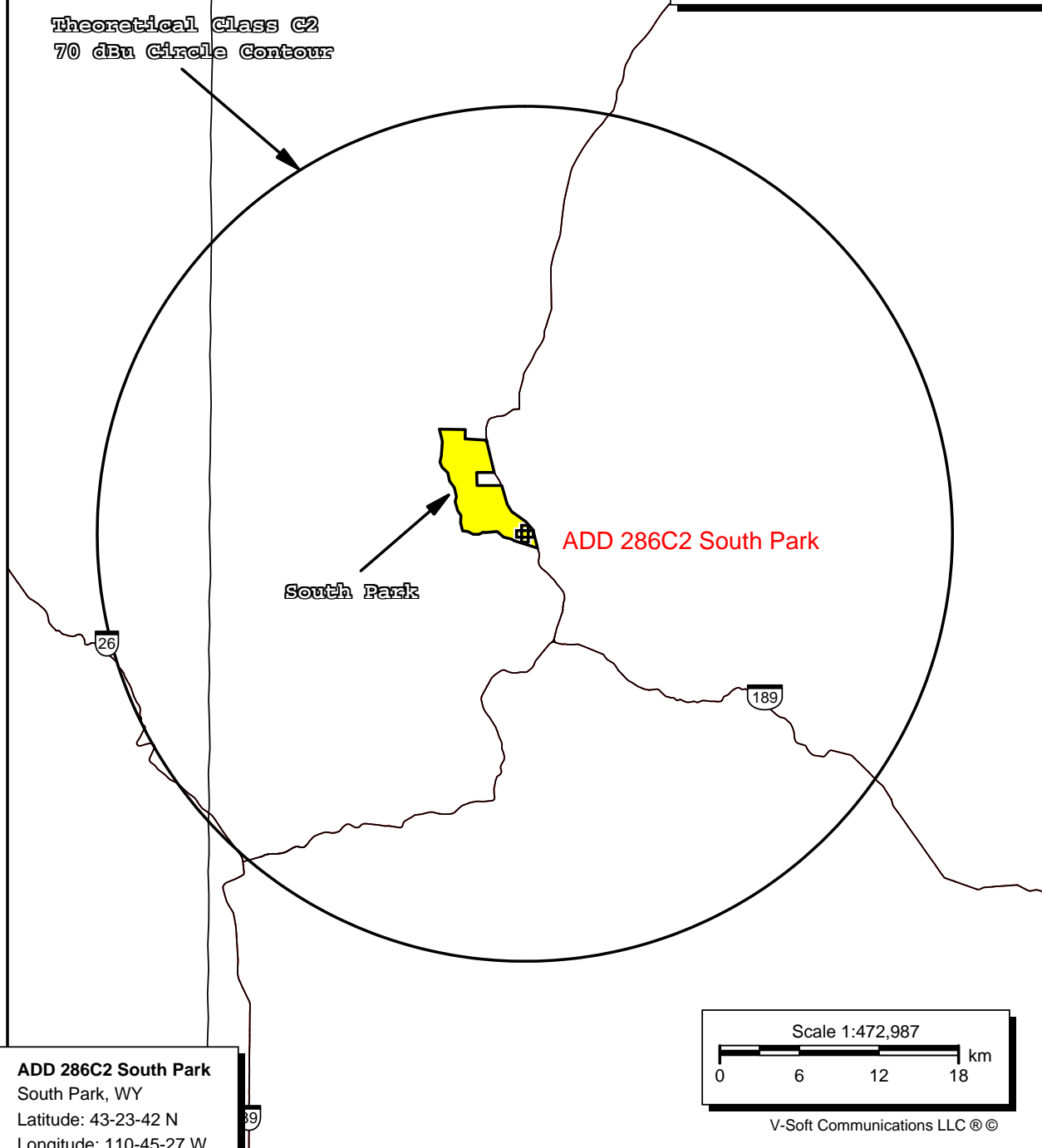
Call		Channel	Location		Azi	Dist	FCC	Margin
KUWJ	LIC	212C2	Jackson	WY	159.3	17.58	14.5	3.08
KBYI	LIC	263C1	Rexburg	ID	281.0	92.59	74.5	18.09
RDEL	DEL	263C1	Rexburg	ID	281.0	92.59	74.5	18.09
RADD	ADD	263C1	Idaho Falls	ID	249.1	93.01	74.5	18.51
KPIN	LIC	266C3	Pinedale	WY	138.9	112.45	88.5	23.95
RADD	ADD	263C1	Idaho Falls	ID	253.6	99.40	74.5	24.90
RADD	ADD	265C2	Lima	MT	310.5	192.32	165.5	26.82
KCVI	LIC	268C	Blackfoot	ID	266.0	148.56	94.5	54.06

Exhibit 2

Allotment Reference Site City-Grade Coverage Map

ADD 286C2 South Park, WY
Allotment Site City-Grade
Coverage Map

Theoretical Class C2
70 dBu Circle Contour

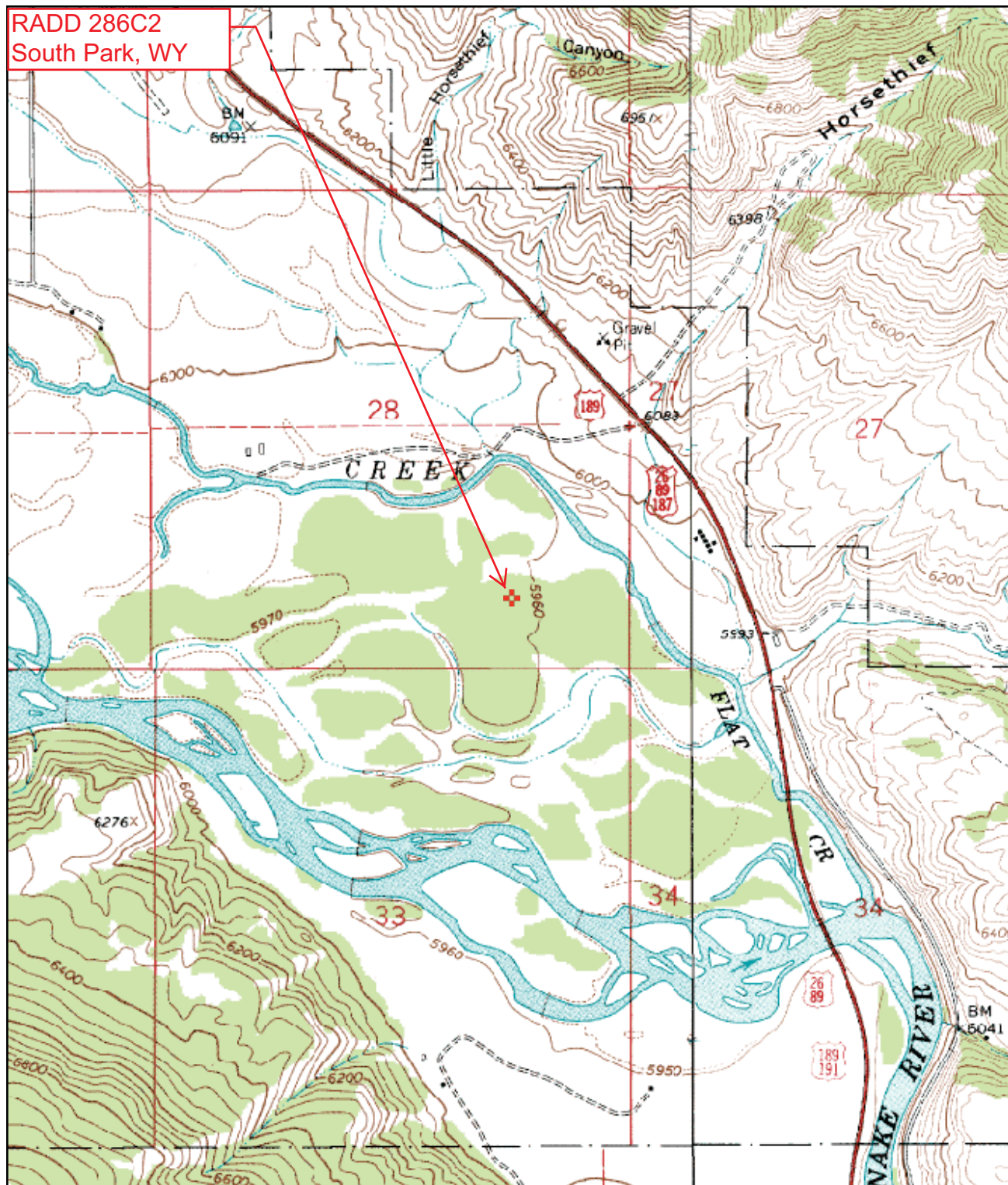


ADD 286C2 South Park
South Park, WY
Latitude: 43-23-42 N
Longitude: 110-45-27 W
ERP: 50.00 kW
HAAT: 150.0 m
Channel: 286 C2
Frequency: 105.1 MHz
AMSL Height: 2324.7 m
Elevation: 1823.0 m
Horiz. Pattern: Omni
Vert. Pattern: No
Prop Model: None

Exhibit 3

Allotment Reference Site Topographic Map

RADD 286C2
South Park, WY



0 0.3 0.6 0.9 1.2 1.5 km
0 0.2 0.4 0.6 0.8 1 mi

43° 23' 42"N, 110° 45' 27"W (NAD27)
USGS Jackson (WY) Quadrangle
Projection is UTM Zone 12 NAD83 Datum

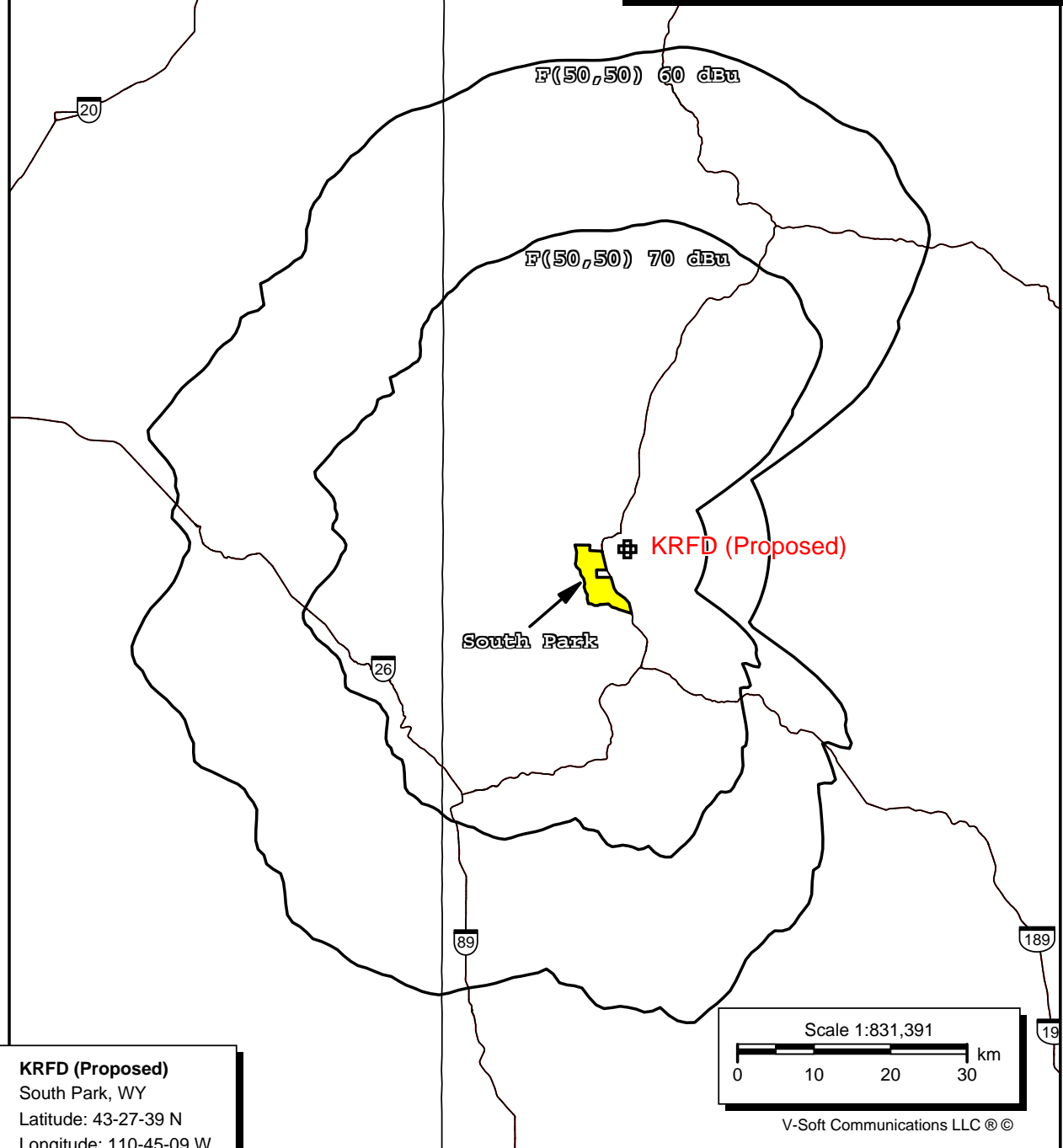
* M
G
M=12.674
G=0.166

Exhibit 4

Proposed Antenna Site Contour Map:

**F(50,50) Protected Contour
F(50,50) City-Grade Contour**

KRFD(FM) 286C2 South Park, WY
Community Coverage and
Contour Map



KRFD (Proposed)

South Park, WY
Latitude: 43-27-39 N
Longitude: 110-45-09 W
ERP: 11.00 kW
HAAT: 320.25 m
Channel: 286 C2
Frequency: 105.1 MHz
AMSL Height: 2479.0 m
Elevation: 2431.0 m
Horiz. Pattern: Omni
Vert. Pattern: No
Prop Model: None

Exhibit 5

Proposed Antenna Site Channel Spacings Study

KRFDFM) 286C2 South Park, WY
Section 73.207 Antenna Site Channel Study

REFERENCE	CLASS = C2	DISPLAY DATES
43 27 39.0 N.	Current	DATA 04-03-08
110 45 09.0 W.	Spacings	SEARCH 04-03-08
----- Channel 286 - 105.1 MHz -----		

Call	Channel	Location	Azi	Dist	FCC	Margin
RADD	ADD	286C2 South Park	WY	183.2	7.32	189.5 -182.18
Of Note: Instantly proposed Allotment Site for Channel 286C2 at South Park.						
RADD	ADD	286C1 Thayne	WY	200.9	63.78	223.5 -159.72
KRFD	CP	286C3 Thayne	WY	217.2	49.59	176.5 -126.91
Of Note: Mutually Exclusive current authorization as ordered in MB Docket 05-243.						
1231733	RSV	284A Teton Village	WY	320.0	10.32	54.5 -44.18
1230828	APP-N	284A Teton Village	WY	339.4	17.61	54.5 -36.89
Of Concern: If the Commission determines that the Application for Channel 284A at Teton Village in BMPH-20080201BPB is grantable, the Applicant proposes an Involuntary Channel Substitution of Channel 249A at Teton Village for use by Facility ID 166043 in place of Channel 284A and agrees to reimburse applicant in accordance with with Circleville, Ohio, 8 FCC 2d 159 (1967).						
AL3583	VAC	286A Dubois	ID	304.4	142.98	165.5 -22.52
RDEL	DEL	286A Dubois	ID	304.4	142.98	165.5 -22.52
Of No Concern: Channel 243A substituted for Channel 286A at Dubois, ID, in MB Docket 05-243.						
RADD	ADD	283C1 Ashton	ID	290.3	76.25	78.5 -2.25
Of Concern: Applicant requests Section 73.215 Contour protection processing towards the Contingently proposed Allotment Site for Channel 283C1 at Ashton, ID.						
NEW	CP -N	284C2 Dubois	WY	67.6	62.96	57.5 5.46
RDEL	DEL	284C2 Dubois	WY	67.6	62.96	57.5 5.46
KRID	APP	283C1 Ashton	ID	294.9	90.73	78.5 12.23
Of Note: Contingently proposed Antenna Site for KRID 283C1 Ashton, ID.						
KTHK	LIC-D	288C1 Idaho Falls	ID	263.6	102.26	78.5 23.76
KTUG	CP	286C3 Hudson	WY	108.3	201.03	176.5 24.53
RADD	ADD	283A Ashton	ID	311.1	87.71	54.5 33.21
KDWY	LIC	287C2 Diamondville	WY	173.5	181.39	129.5 51.89
RDEL	DEL	287C2 Diamondville	WY	173.5	181.39	129.5 51.89

Exhibit 5A

Section 73.215 Contour Overlap Tabulations and Contour Overlap Map

**KRFD(FM) 286C2
vs:
RADD 283C1 Ashton, ID**

04-04-2008

NGDC 30 SEC Terrain Data

FMOver Analysis

KRFD

Channel = 286C2

Max ERP = 11 kW

RCAMSL = 2479 M

N. Lat. 43 27 39.0

W. Lng. 110 45 09.0

Protected

60 dBu

RADD

Channel = 283C1

Max ERP = 100 kW

RCAMSL = 2017 M

N. Lat. 43 41 43.0

W. Lng. 111 38 23.0

Interfering

100 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
230.0	011.0000	0481.3	061.9	159.7	100.0000	0221.6	070.2	62.60
231.0	011.0000	0477.1	061.7	159.7	100.0000	0221.6	069.1	62.95
232.0	011.0000	0470.9	061.3	159.7	100.0000	0221.6	068.0	63.34
233.0	011.0000	0461.9	060.7	159.5	100.0000	0221.5	066.8	63.74
234.0	011.0000	0451.8	060.1	159.2	100.0000	0221.3	065.6	64.13
235.0	011.0000	0444.5	059.7	159.1	100.0000	0221.1	064.5	64.52
236.0	011.0000	0441.1	059.5	159.2	100.0000	0221.2	063.4	64.89
237.0	011.0000	0441.4	059.5	159.4	100.0000	0221.4	062.4	65.26
238.0	011.0000	0444.9	059.7	159.8	100.0000	0221.6	061.5	65.62
239.0	011.0000	0450.9	060.1	160.3	100.0000	0221.4	060.5	65.97
240.0	011.0000	0460.0	060.6	161.0	100.0000	0220.5	059.6	66.28
241.0	011.0000	0470.3	061.2	161.8	100.0000	0218.1	058.7	66.54
242.0	011.0000	0480.2	061.9	162.7	100.0000	0215.0	057.7	66.77
243.0	011.0000	0487.2	062.3	163.3	100.0000	0212.7	056.7	67.05
244.0	011.0000	0489.5	062.5	163.7	100.0000	0211.6	055.7	67.41
245.0	011.0000	0488.2	062.4	163.8	100.0000	0211.3	054.6	67.83
246.0	011.0000	0485.6	062.2	163.7	100.0000	0211.4	053.5	68.27
247.0	011.0000	0484.3	062.1	163.8	100.0000	0211.2	052.4	68.69
248.0	011.0000	0485.1	062.2	164.0	100.0000	0210.8	051.3	69.10
249.0	011.0000	0487.6	062.4	164.3	100.0000	0210.3	050.3	69.50
250.0	011.0000	0491.9	062.6	164.8	100.0000	0210.1	049.2	69.91
251.0	011.0000	0496.9	063.0	165.3	100.0000	0210.4	048.1	70.35
252.0	011.0000	0503.7	063.4	165.9	100.0000	0211.1	047.1	70.81
253.0	011.0000	0510.7	063.9	166.6	100.0000	0211.7	046.0	71.28
254.0	011.0000	0517.0	064.3	167.2	100.0000	0212.0	044.9	71.75
255.0	011.0000	0522.9	064.7	167.8	100.0000	0211.9	043.8	72.23
256.0	011.0000	0530.6	065.2	168.5	100.0000	0211.5	042.7	72.69
257.0	011.0000	0537.1	065.6	169.2	100.0000	0210.8	041.5	73.16
258.0	011.0000	0540.6	065.8	169.5	100.0000	0210.6	040.4	73.68
259.0	011.0000	0538.5	065.7	169.4	100.0000	0210.7	039.3	74.21
260.0	011.0000	0530.6	065.2	168.6	100.0000	0211.3	038.1	74.78
261.0	011.0000	0520.2	064.5	167.5	100.0000	0212.0	037.0	75.35
262.0	011.0000	0506.5	063.6	166.0	100.0000	0211.1	036.0	75.82
263.0	011.0000	0488.3	062.4	163.8	100.0000	0211.2	035.0	76.28
264.0	011.0000	0469.8	061.2	161.6	100.0000	0219.1	034.2	77.05
265.0	011.0000	0456.7	060.4	159.8	100.0000	0221.6	033.4	77.58
266.0	011.0000	0444.9	059.7	158.2	100.0000	0220.3	032.6	77.93

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
267.0	011.0000	0431.9	059.0	156.3	100.0000	0220.0	031.8	78.30
268.0	011.0000	0418.8	058.2	154.4	100.0000	0222.6	031.2	78.77
269.0	011.0000	0407.1	057.6	152.5	100.0000	0228.3	030.5	79.34
270.0	011.0000	0408.8	057.7	151.7	100.0000	0231.2	029.6	79.99
271.0	011.0000	0410.5	057.8	151.0	100.0000	0234.0	028.6	80.66
272.0	011.0000	0412.6	057.9	150.1	100.0000	0235.4	027.7	81.30
273.0	011.0000	0414.9	058.0	149.2	100.0000	0234.5	026.8	81.88
274.0	011.0000	0416.7	058.1	148.1	100.0000	0231.0	025.9	82.36
275.0	011.0000	0419.0	058.2	147.0	100.0000	0226.8	025.0	82.84
276.0	011.0000	0422.1	058.4	145.9	100.0000	0223.4	024.1	83.36
277.0	011.0000	0428.6	058.8	144.9	100.0000	0221.2	023.1	84.04
278.0	011.0000	0435.6	059.2	143.9	100.0000	0219.0	022.1	84.74
279.0	011.0000	0443.8	059.7	142.8	100.0000	0216.4	021.0	85.47
280.0	011.0000	0455.0	060.3	141.9	100.0000	0213.7	019.8	86.31
281.0	011.0000	0473.0	061.4	141.7	100.0000	0213.1	018.3	87.54
282.0	011.0000	0490.1	062.5	141.4	100.0000	0212.1	016.7	88.78
283.0	011.0000	0504.1	063.4	140.4	100.0000	0210.1	015.3	89.89
284.0	011.0000	0509.0	063.8	137.6	100.0000	0211.7	014.4	90.65
285.0	011.0000	0506.3	063.6	133.4	100.0000	0216.4	014.0	91.37
286.0	011.0000	0500.3	063.2	128.6	100.0000	0172.4	013.9	89.60
287.0	011.0000	0492.5	062.7	123.6	100.0000	0083.9	014.0	83.02
288.0	011.0000	0484.9	062.2	118.8	100.0000	0001.9	014.2	73.96
289.0	011.0000	0478.6	061.8	114.3	100.0000	0019.7	014.4	73.67
290.0	011.0000	0470.6	061.3	110.0	100.0000	-0009.0	014.9	73.14
291.0	011.0000	0460.9	060.7	106.1	100.0000	-0010.8	015.5	72.56
292.0	011.0000	0451.8	060.1	102.6	100.0000	0000.2	016.2	71.99
293.0	011.0000	0446.1	059.8	099.2	100.0000	0018.8	016.7	71.54
294.0	011.0000	0444.3	059.7	095.9	100.0000	0039.4	017.1	73.52
295.0	011.0000	0440.3	059.4	092.9	100.0000	0062.4	017.7	77.21
296.0	011.0000	0432.5	059.0	090.5	100.0000	0077.9	018.5	78.34
297.0	011.0000	0423.2	058.5	088.4	100.0000	0088.5	019.4	78.71
298.0	011.0000	0418.1	058.2	086.3	100.0000	0098.9	020.2	79.11
299.0	011.0000	0421.1	058.4	083.6	100.0000	0108.5	020.6	79.63
300.0	011.0000	0426.3	058.6	080.9	100.0000	0113.5	021.0	79.74
301.0	011.0000	0426.7	058.7	078.8	100.0000	0120.9	021.6	79.78
302.0	011.0000	0416.8	058.1	077.8	100.0000	0124.2	022.7	79.16
303.0	011.0000	0405.4	057.5	077.2	100.0000	0125.9	023.9	78.42
304.0	011.0000	0403.6	057.4	075.7	100.0000	0129.6	024.7	78.09
305.0	011.0000	0412.9	057.9	073.3	100.0000	0135.3	025.1	78.17
306.0	011.0000	0423.8	058.5	070.8	100.0000	0138.3	025.6	78.06
307.0	011.0000	0428.6	058.8	069.0	100.0000	0138.3	026.2	77.58
308.0	011.0000	0425.3	058.6	068.2	100.0000	0137.6	027.2	76.89
309.0	011.0000	0415.5	058.0	068.1	100.0000	0137.6	028.4	76.15
310.0	011.0000	0405.5	057.5	068.2	100.0000	0137.6	029.5	75.46
311.0	011.0000	0400.7	057.2	067.7	100.0000	0137.1	030.5	74.85
312.0	011.0000	0403.8	057.4	066.6	100.0000	0135.7	031.4	74.31
313.0	011.0000	0413.6	057.9	065.0	100.0000	0133.4	032.1	73.80
314.0	011.0000	0426.2	058.6	063.1	100.0000	0131.9	032.7	73.36
315.0	011.0000	0438.0	059.3	061.5	100.0000	0132.8	033.5	73.03
316.0	011.0000	0448.0	059.9	060.1	100.0000	0134.1	034.4	72.70
317.0	011.0000	0455.9	060.4	058.9	100.0000	0135.0	035.3	72.31

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
318.0	011.0000	0463.0	060.8	057.9	100.0000	0135.7	036.2	71.90
319.0	011.0000	0470.8	061.3	056.9	100.0000	0136.2	037.2	71.46
320.0	011.0000	0477.8	061.7	056.0	100.0000	0136.3	038.2	71.00
321.0	011.0000	0482.9	062.0	055.4	100.0000	0136.1	039.2	70.51
322.0	011.0000	0485.9	062.2	055.0	100.0000	0136.0	040.3	70.01
323.0	011.0000	0487.1	062.3	054.8	100.0000	0135.9	041.4	69.52
324.0	011.0000	0488.4	062.4	054.6	100.0000	0135.8	042.5	69.04
325.0	011.0000	0491.6	062.6	054.3	100.0000	0135.6	043.5	68.56
326.0	011.0000	0495.0	062.8	054.1	100.0000	0135.5	044.6	68.09
327.0	011.0000	0497.1	063.0	053.9	100.0000	0135.4	045.7	67.64
328.0	011.0000	0499.4	063.1	053.8	100.0000	0135.4	046.8	67.19
329.0	011.0000	0503.1	063.4	053.6	100.0000	0135.3	048.0	66.74
330.0	011.0000	0507.1	063.6	053.4	100.0000	0135.2	049.1	66.30
331.0	011.0000	0510.0	063.8	053.3	100.0000	0135.2	050.2	65.86
332.0	011.0000	0511.7	064.0	053.4	100.0000	0135.2	051.3	65.42
333.0	011.0000	0511.5	063.9	053.6	100.0000	0135.3	052.4	65.00
334.0	011.0000	0509.1	063.8	053.9	100.0000	0135.4	053.5	64.59
335.0	011.0000	0506.5	063.6	054.3	100.0000	0135.6	054.6	64.19
336.0	011.0000	0504.3	063.5	054.7	100.0000	0135.8	055.6	63.80
337.0	011.0000	0503.6	063.4	054.9	100.0000	0136.0	056.7	63.40
338.0	011.0000	0504.9	063.5	055.1	100.0000	0136.0	057.8	62.99
339.0	011.0000	0507.0	063.6	055.2	100.0000	0136.1	058.9	62.58
340.0	011.0000	0509.8	063.8	055.3	100.0000	0136.1	060.0	62.17
341.0	011.0000	0513.1	064.0	055.3	100.0000	0136.1	061.2	61.77
342.0	011.0000	0515.7	064.2	055.5	100.0000	0136.2	062.3	61.38
343.0	011.0000	0517.7	064.4	055.6	100.0000	0136.2	063.4	61.00
344.0	011.0000	0518.5	064.4	055.9	100.0000	0136.3	064.5	60.65
345.0	011.0000	0518.0	064.4	056.2	100.0000	0136.3	065.5	60.30
346.0	011.0000	0517.1	064.3	056.6	100.0000	0136.3	066.6	59.96
347.0	011.0000	0516.6	064.3	056.9	100.0000	0136.2	067.6	59.62
348.0	011.0000	0516.9	064.3	057.2	100.0000	0136.0	068.7	59.27
349.0	011.0000	0517.6	064.3	057.5	100.0000	0135.9	069.7	58.93
350.0	011.0000	0518.6	064.4	057.8	100.0000	0135.7	070.8	58.59

04-04-2008 NGDC 30 SEC Terrain Data

RADD

Channel = 283C1

Max ERP = 100 kW

RCAMSL = 2017 M

N. Lat. 43 41 43.0

W. Lng. 111 38 23.0

Protected

60 dBu

KRFD

Channel = 286C2

Max ERP = 11 kW

RCAMSL = 2479 M

N. Lat. 43 27 39.0

W. Lng. 110 45 09.0

Interfering

100 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
050.0	100.0000	0136.2	056.6	335.8	011.0000	0504.6	068.5	62.26
051.0	100.0000	0135.6	056.5	336.1	011.0000	0504.2	067.5	62.59
052.0	100.0000	0135.1	056.4	336.2	011.0000	0503.9	066.5	62.91
053.0	100.0000	0135.1	056.4	336.4	011.0000	0503.7	065.6	63.23
054.0	100.0000	0135.5	056.5	336.6	011.0000	0503.6	064.6	63.55
055.0	100.0000	0136.0	056.5	336.9	011.0000	0503.6	063.7	63.87
056.0	100.0000	0136.3	056.6	337.1	011.0000	0503.7	062.7	64.21
057.0	100.0000	0136.1	056.6	337.2	011.0000	0503.8	061.7	64.55
058.0	100.0000	0135.6	056.5	337.3	011.0000	0503.9	060.8	64.89
059.0	100.0000	0135.0	056.4	337.4	011.0000	0503.9	059.8	65.24
060.0	100.0000	0134.2	056.3	337.4	011.0000	0504.0	058.8	65.60
061.0	100.0000	0133.2	056.1	337.4	011.0000	0503.9	057.8	65.95
062.0	100.0000	0132.3	056.0	337.3	011.0000	0503.9	056.8	66.30
063.0	100.0000	0131.9	056.0	337.3	011.0000	0503.9	055.8	66.66
064.0	100.0000	0132.4	056.0	337.5	011.0000	0504.1	054.9	67.01
065.0	100.0000	0133.5	056.2	337.7	011.0000	0504.4	053.9	67.37
066.0	100.0000	0134.8	056.4	337.9	011.0000	0504.8	052.9	67.73
067.0	100.0000	0136.3	056.6	338.1	011.0000	0505.2	051.9	68.10
068.0	100.0000	0137.4	056.7	338.3	011.0000	0505.6	051.0	68.46
069.0	100.0000	0138.3	056.9	338.5	011.0000	0505.8	050.0	68.82
070.0	100.0000	0138.6	056.9	338.5	011.0000	0505.9	049.0	69.18
071.0	100.0000	0138.1	056.8	338.4	011.0000	0505.6	048.0	69.53
072.0	100.0000	0137.2	056.7	338.1	011.0000	0505.2	047.0	69.87
073.0	100.0000	0135.8	056.5	337.8	011.0000	0504.5	046.0	70.22
074.0	100.0000	0133.9	056.2	337.3	011.0000	0503.8	045.1	70.57
075.0	100.0000	0131.6	055.9	336.7	011.0000	0503.6	044.2	70.92
076.0	100.0000	0128.8	055.5	336.0	011.0000	0504.4	043.3	71.28
077.0	100.0000	0126.3	055.1	335.2	011.0000	0505.9	042.4	71.66
078.0	100.0000	0123.5	054.8	334.4	011.0000	0508.0	041.6	72.05
079.0	100.0000	0120.0	054.2	333.4	011.0000	0510.7	040.8	72.42
080.0	100.0000	0116.6	053.7	332.3	011.0000	0511.9	040.0	72.76
081.0	100.0000	0113.2	053.2	331.1	011.0000	0510.3	039.3	73.02
082.0	100.0000	0111.2	052.9	330.2	011.0000	0507.7	038.6	73.29
083.0	100.0000	0109.4	052.6	329.2	011.0000	0504.1	037.8	73.53

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
084.0	100.0000	0107.8	052.3	328.2	011.0000	0500.2	037.1	73.77
085.0	100.0000	0104.5	051.7	326.8	011.0000	0496.7	036.6	73.94
086.0	100.0000	0100.1	050.9	325.0	011.0000	0491.6	036.2	74.00
087.0	100.0000	0095.7	050.1	323.1	011.0000	0487.2	035.9	74.04
088.0	100.0000	0090.7	049.0	321.0	011.0000	0482.9	035.8	74.01
089.0	100.0000	0085.6	048.0	318.8	011.0000	0469.3	035.8	73.74
090.0	100.0000	0080.5	046.9	316.6	011.0000	0452.9	036.0	73.36
091.0	100.0000	0075.4	045.7	314.4	011.0000	0431.5	036.2	72.78
092.0	100.0000	0069.6	044.4	312.1	011.0000	0404.9	036.7	71.92
093.0	100.0000	0061.9	042.6	309.5	011.0000	0410.5	037.7	71.61
094.0	100.0000	0053.6	040.2	306.6	011.0000	0427.6	039.2	71.35
095.0	100.0000	0045.6	037.4	303.7	011.0000	0403.0	041.3	69.81
096.0	100.0000	0038.8	034.7	301.3	011.0000	0424.7	043.5	69.45
097.0	100.0000	0033.0	032.2	299.4	011.0000	0423.2	045.5	68.60
098.0	100.0000	0026.3	031.0	298.2	011.0000	0418.1	046.4	68.09
099.0	100.0000	0020.0	031.0	297.5	011.0000	0419.4	046.2	68.19
100.0	100.0000	0013.2	031.0	296.9	011.0000	0424.1	046.1	68.37
101.0	100.0000	0007.5	031.0	296.3	011.0000	0430.1	045.9	68.57
102.0	100.0000	0003.2	031.0	295.6	011.0000	0436.0	045.8	68.76
103.0	100.0000	-0002.0	031.0	294.9	011.0000	0440.7	045.7	68.92
104.0	100.0000	-0005.6	031.0	294.3	011.0000	0443.6	045.6	69.03
105.0	100.0000	-0010.4	031.0	293.6	011.0000	0445.0	045.5	69.09
106.0	100.0000	-0010.9	031.0	292.9	011.0000	0446.4	045.4	69.15
107.0	100.0000	-0010.2	031.0	292.2	011.0000	0450.1	045.4	69.26
108.0	100.0000	-0011.6	031.0	291.5	011.0000	0455.6	045.4	69.40
109.0	100.0000	-0012.0	031.0	290.9	011.0000	0462.3	045.3	69.56
110.0	100.0000	-0009.1	031.0	290.2	011.0000	0469.0	045.3	69.71
111.0	100.0000	-0002.4	031.0	289.5	011.0000	0474.9	045.3	69.84
112.0	100.0000	0007.1	031.0	288.8	011.0000	0479.9	045.4	69.94
113.0	100.0000	0016.1	031.0	288.1	011.0000	0484.1	045.4	70.02
114.0	100.0000	0020.3	031.0	287.4	011.0000	0488.8	045.5	70.10
115.0	100.0000	0015.7	031.0	286.8	011.0000	0494.4	045.5	70.19
116.0	100.0000	0006.8	031.0	286.1	011.0000	0499.6	045.6	70.27
117.0	100.0000	-0003.0	031.0	285.4	011.0000	0503.9	045.7	70.32
118.0	100.0000	-0004.8	031.0	284.8	011.0000	0507.4	045.9	70.35
119.0	100.0000	0004.0	031.0	284.1	011.0000	0509.0	046.0	70.33
120.0	100.0000	0019.9	031.0	283.5	011.0000	0507.5	046.2	70.24
121.0	100.0000	0037.3	034.0	281.5	011.0000	0482.5	043.4	70.76
122.0	100.0000	0053.8	040.3	277.3	011.0000	0430.5	037.9	71.99
123.0	100.0000	0071.4	044.8	272.9	011.0000	0414.7	034.2	73.30
124.0	100.0000	0092.1	049.3	267.3	011.0000	0428.4	030.9	75.23
125.0	100.0000	0113.3	053.2	261.1	011.0000	0519.2	028.6	78.24
126.0	100.0000	0132.4	056.0	255.5	011.0000	0526.4	027.4	79.09
127.0	100.0000	0148.9	058.3	250.3	011.0000	0493.4	026.8	78.86
128.0	100.0000	0163.8	060.2	245.8	011.0000	0486.2	026.8	78.77
129.0	100.0000	0178.1	061.7	241.8	011.0000	0478.8	027.1	78.45
130.0	100.0000	0191.2	063.0	238.6	011.0000	0448.2	027.7	77.53
131.0	100.0000	0202.0	064.0	236.0	011.0000	0441.1	028.5	76.91
132.0	100.0000	0210.0	064.7	234.0	011.0000	0451.7	029.4	76.59
133.0	100.0000	0215.1	065.2	232.7	011.0000	0464.7	030.4	76.25
134.0	100.0000	0217.5	065.4	232.0	011.0000	0471.0	031.5	75.79

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
135.0	100.0000	0217.3	065.4	231.8	011.0000	0472.5	032.7	75.27
136.0	100.0000	0215.4	065.2	231.9	011.0000	0471.9	033.8	74.72
137.0	100.0000	0213.0	065.0	232.1	011.0000	0470.5	035.0	74.16
138.0	100.0000	0211.0	064.8	232.2	011.0000	0469.1	036.1	73.61
139.0	100.0000	0209.8	064.7	232.3	011.0000	0468.5	037.3	73.09
140.0	100.0000	0209.8	064.7	232.2	011.0000	0469.1	038.4	72.60
141.0	100.0000	0211.2	064.9	232.0	011.0000	0471.1	039.5	72.15
142.0	100.0000	0213.9	065.1	231.6	011.0000	0473.6	040.7	71.72
143.0	100.0000	0216.9	065.4	231.3	011.0000	0475.6	041.8	71.28
144.0	100.0000	0219.3	065.6	231.0	011.0000	0476.8	043.0	70.84
145.0	100.0000	0221.4	065.8	230.9	011.0000	0477.6	044.1	70.39
146.0	100.0000	0223.8	066.0	230.8	011.0000	0478.2	045.3	69.94
147.0	100.0000	0226.8	066.3	230.6	011.0000	0479.1	046.5	69.51
148.0	100.0000	0230.5	066.6	230.4	011.0000	0479.9	047.7	69.08
149.0	100.0000	0233.9	066.9	230.2	011.0000	0480.5	048.9	68.65
150.0	100.0000	0235.4	067.0	230.3	011.0000	0480.2	050.0	68.20
151.0	100.0000	0233.9	066.9	230.7	011.0000	0478.6	051.2	67.75
152.0	100.0000	0230.2	066.6	231.3	011.0000	0475.6	052.2	67.27
153.0	100.0000	0226.3	066.2	231.9	011.0000	0471.8	053.3	66.77
154.0	100.0000	0223.4	066.0	232.4	011.0000	0467.6	054.4	66.26
155.0	100.0000	0221.4	065.8	232.8	011.0000	0463.4	055.5	65.75
156.0	100.0000	0220.2	065.7	233.2	011.0000	0459.7	056.6	65.25
157.0	100.0000	0219.8	065.6	233.5	011.0000	0456.5	057.7	64.76
158.0	100.0000	0220.1	065.7	233.8	011.0000	0454.0	058.8	64.29
159.0	100.0000	0221.0	065.8	234.0	011.0000	0452.0	060.0	63.82
160.0	100.0000	0221.6	065.8	234.2	011.0000	0449.8	061.1	63.36
161.0	100.0000	0220.6	065.7	234.6	011.0000	0446.8	062.2	62.91
162.0	100.0000	0217.6	065.4	235.2	011.0000	0443.7	063.2	62.47
163.0	100.0000	0213.7	065.1	235.8	011.0000	0441.5	064.2	62.08
164.0	100.0000	0210.8	064.8	236.3	011.0000	0440.8	065.2	61.72
165.0	100.0000	0210.2	064.8	236.7	011.0000	0440.9	066.2	61.37
166.0	100.0000	0211.2	064.9	236.9	011.0000	0441.3	067.3	61.01
167.0	100.0000	0211.9	064.9	237.2	011.0000	0441.9	068.4	60.66
168.0	100.0000	0211.9	064.9	237.5	011.0000	0443.0	069.5	60.33
169.0	100.0000	0211.0	064.8	237.9	011.0000	0444.6	070.5	60.03
170.0	100.0000	0210.5	064.8	238.3	011.0000	0446.4	071.5	59.74

KRFD(FM) 286C2 vs RADD 283C1 Ashton, ID
 Section 73.207 Antenna Site Channel Study

FMCommander Single Allocation Study
 04-04-2008

KRFD	CH 286 C2	RADD	CH 283 C1
11.0 kW	2479 M COR	100.0 kW,	2017 M COR
Prot. =	60 dBu	Prot. =	60 dBu
Intef. =	100 dBu	Intef. =	100 dBu

