

KYEN(FM)
Severance, CO
Proposed Minor Modification
Of Permitted Facility

Application Overview:

KYEN(FM) (FCC Facility ID# 164151) proposes to modify its currently Permitted Facilities

using the following parameters:

Tech Box:

Channel:	280
Class:	C1
Antenna Coordinates:	N40-37-03, W105-19-40 (NAD 27)
Allotment Ref. Coordinates:	N40-45-52, W105-04-28 (NAD 27)
ASRN:	N/A
Tower Height AMSL:	43 m
COR AMSL:	2560 m
COR AGL:	36 m
COR HAAT:	372 m
ERP:	16.5 kW
Directional Antenna:	No

Allotment Modifications:

The Applicant respectfully requests that the community of license for KYEN(FM) be changed from Cheyenne, Wyoming, to Severance, Colorado. As such, Exhibit 1 is an allotment

reference site channel spacings study for KYEN(FM) on Channel 280C1 at Severance, CO, demonstrating that the proposed facility would be fully spaced pursuant to Section 73.207 towards all other authorizations, allotments, and proposals with the exception of KRQU(FM) 283C2 Laramie, Wyoming, from the following location:

Allotment Reference Coordinates: N40-45-52, W105-04-28 (NAD 27)

In order to eliminate the shortspacing conflict with KRQU(FM), Laramie Mountain Broadcasting, L.L.C., licensee of KRQU(FM) has contingently and contemporaneously filed its own FCC 301 Application proposing to have KRQU(FM)'s channel changed from 283C2 to its I.F. channel of 230A at a new antenna site. With KRQU(FM)'s channel changed, KYEN(FM)'s proposed community change can occur in compliance with the Commission's Rules.

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 KYEN(FM)'s proposed new community of license – Severance, CO. As can be seen in the Exhibit, 100% of Severance'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 KYEN(FM)'s community of license – Severance, CO. As can be seen in the Exhibit, 100% of Severance's community boundaries are encompassed by the F(50,50) 70 dBu contour of the proposed facility. Also, no major terrain obstructions are located between the antenna site and the community.

Interference Study (Requesting Section 73.215 Contour Protection):

Exhibit 5 is a channel spacings study from the proposed KYEN(FM) antenna site. It notes that the proposed KYEN(FM) antenna site would otherwise be slightly shortspaced to:

-KYZX(FM) Pueblo West, CO 280C2 (see BLH-20070326AGF)

-KFMU-FM Oak Creek, CO on 281C3 (see BLH-19940111KC)

Therefore, the applicant requests Section 73.215 contour protection processing.

KYEN(FM) is eligible to request 73.215 Contour Protection towards KYZX(FM) as it complies with the minimum separation requirements on its co - channel at its proposed antenna site. The channel spacings study in Exhibit 5 shows that the proposed KYEN(FM) 280C1 antenna location is spaced 211.64 kilometers from the KYZX(FM) site. In order to be eligible for 73.215 Contour Protection, the minimum "C1 to C2" spacing for co - channel stations must

be at least 211 kilometers. The proposed KYEN(FM) 280C1 antenna site satisfies this requirement by 0.64 kilometers.

Using the facilities proposed herein, KYEN(FM) 280C1 complies with the contour protection requirements of Section 73.215 towards KYZX(FM). The attached overlap tabulation studies in Exhibits 5A and 5B demonstrate that this application complies with the contour protection requirements of Section 73.215.

In reviewing the attached studies, it should be noted that since KYZX(FM) is, itself, a Section 73.215 Contour Protection Station, the following overlap studies were conducted assuming “Actual” Class C2 Facilities as licensed for KYZX(FM).

Using the KYEN(FM) 280C1 technical parameters proposed in this application, Exhibit 5A demonstrates that the KYEN(FM) F(50,50) 60 dBu Protected Contour does not overlap the proposed F(50,10) 40 dBu Interfering Contour of KYZX(FM) operations on Channel 280C2. Likewise, Exhibit 5B demonstrates that the F(50,50) 60 dBu Protected Contour for KYZX(FM) does not overlap the F(50,10) 40 dBu Interfering Contour of the instant KYEN(FM) application on 280C1. Therefore, it appears as though the instant application meets the requirements of Section 73.215 towards KYZX(FM).

KYEN(FM) is eligible to request 73.215 Contour Protection towards KFMU-FM as it complies with the minimum separation requirements on its first adjacent channel at its proposed antenna site. The channel spacings study in Exhibit 5 shows that the proposed KYEN(FM) antenna location is spaced 137.96 kilometers from the KFMU-FM site. In order to be eligible for

73.215 Contour Protection, the minimum “C1 to C3” spacing for first adjacent channel stations must be at least 133 kilometers. The proposed KYEN(FM) antenna site satisfies this requirement by 4.96 kilometers.

Using the facilities proposed herein, KYEN(FM) complies with the contour protection requirements of Section 73.215 towards KFMU-FM. The attached overlap tabulation studies in Exhibits 5C and 5D demonstrate that this application complies with the contour protection requirements of Section 73.215.

In reviewing the attached studies, it should be noted that since KFMU-FM is, itself, a Section 73.215 Contour Protection Station, the following overlap studies were conducted assuming the “Actual” licensed Class C3 Facilities for KFMU-FM.

Using the KYEN(FM) technical parameters proposed in this application, Exhibit 5C demonstrates that the KYEN(FM) F(50,50) 60 dBu Protected Contour does not overlap the proposed F(50,10) 54 dBu Interfering Contour of KFMU-FM operations on Channel 281C3. Likewise, Exhibit 5D demonstrates that the F(50,50) 60 dBu Protected Contour for KFMU-FM does not overlap the F(50,10) 54 dBu Interfering Contour of the instant KYEN(FM) application on 280C1. Therefore, it appears as though the instant application meets the requirements of Section 73.215 towards KFMU-FM.

Downward Radiation Study (FM Model):

The proposed FM Facility has been evaluated in terms of potential radiofrequency electromagnetic field exposure at ground level in accordance with OET Bulletin No. 65,

Evaluating Compliance with FCC Specified Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields (OET Bulletin 65, Second Edition 97-01, August, 1997). The Commission's FM Model Power Density Prediction program was employed to determine the Field. Using the ERI SHPX Rototiller antenna with 8 sections and half wavelength spacing, and the AGL height and ERP proposed in this application, the highest predicted power density 2 meters above ground is less than 3.1% of the Uncontrolled Standard with a Power Density of 6.14 microwatts per square centimeter 272 meters from the base of the tower.

Although KYEN(FM)'s downward RFR contribution at the site will be negligible, due to the fact that several existing and proposed emitters are located at or near the site, the applicant, if requested by the Commission, 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.

Even though the site will fully comply with the Uncontrolled 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

KYEN 280C1 Allotment Site
Channel Spacings Study

REFERENCE	CLASS = C1 Int = C1	DISPLAY DATES
40 45 52.0 N.	Current Spacings	DATA 09-28-07
105 04 28.0 W.	Channel 280 - 103.9 MHz	SEARCH 10-07-07

Call	Channel	Location	Azi	Dist	FCC	Margin
RADD	ADD 280C1	Ault	CO 256.4	6.85	245.0	-238.15
RADD	ADD 280C1	Ault	CO 258.8	11.11	245.0	-233.89

Of No Concern:

This Petition for Rulemaking was dismissed by staff letter and its associated Petition for Reconsideration has been withdrawn by the petitioner. See Laramie, WY; Cheyenne, WY; and Ault, CO. No docket number was assigned.

RDEL	DEL 280C2	Cheyenne	WY 28.4	47.24	224.0	-176.76
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Of No Concern:

This Petition for Rulemaking was dismissed by staff letter and its associated Petition for Reconsideration has been withdrawn by the petitioner. See Laramie, WY; Cheyenne, WY; and Ault, CO. No docket number was assigned.

KYEN	CP 280C2	Cheyenne	WY 40.9	51.96	224.0	-172.04
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Of Note:

Instant Facility at mutually exclusive site at Cheyenne, WY.

KOZY-FM	LIC 280C3	Gering	NE 42.6	167.47	211.0	-43.53
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Of No Concern:

Channel 280C3 was deleted from Gering in MM Docket 97-106. Pursuant to BPH-20041129AJA, KOZY-FM's channel was changed to Channel 227C0. On 8/27/07, KOZY-FM commenced program tests on Channel 227C0 and filed BLH-20070827AED.

KRQU	CP 283C2	Laramie	WY 321.7	48.92	79.0	-30.08
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KRQU	LIC 283C2	Laramie	WY 332.5	68.53	79.0	-10.47
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Of Concern:

KRQU has contemporaneously and contingently filed a modification application to have its channel changed to its I.F. channel, 230A, at a new antenna site.

RADD	ADD 277C2	Cheyenne	WY 31.7	72.13	79.0	-6.87
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RADD	ADD 277C2	Cheyenne	WY 26.8	74.69	79.0	-4.31
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RADD	ADD 277C2	Cheyenne	WY 26.2	76.71	79.0	-2.29
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Of No Concern:

This Petition for Rulemaking was dismissed by staff letter and its associated Petition for Reconsideration has been withdrawn by the petitioner. See Laramie, WY; Cheyenne, WY; and Ault, CO. No docket number was assigned.

KYZX	LIC-N 280C2	Pueblo West	CO 175.3	224.89	224.0	0.89
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RDEL	DEL 283C2	Laramie	WY 339.4	83.00	79.0	4.00
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RADD	ADD 283C2	Laramie	WY 323.0	86.36	79.0	7.36
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RDEL	DEL 278C	Denver	CO 186.8	115.61	105.0	10.61
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KANT	APP 281C2	Glendo	WY 1.1	175.71	158.0	17.71
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KANT	CP 281C2	Guernsey	WY 1.1	175.85	158.0	17.85
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RADD	ADD 279C1	Akron	CO 113.0	195.90	177.0	18.90
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KFMU-FM	LIC-N 281C3	Oak Creek	CO 249.5	163.51	144.0	19.51
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KRFX	CP -D 278C0	Denver	CO 186.9	115.34	94.0	21.34
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RADD	ADD 278C0	Denver	CO 186.8	115.61	94.0	21.61
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KRFX	LIC 278C0	Denver	CO 186.8	115.61	94.0	21.61
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KHNA	RSV 277C2	Rock River	WY 328.3	107.86	79.0	28.86
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KHNA	APP 277C2	Rock River	WY 328.3	107.86	79.0	28.86
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KSNO-FM	LIC 280A	Snowmass Village	CO 223.6	230.67	200.0	30.67
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KQLT	LIC 279C	Casper	WY 335.5	242.60	209.0	33.60
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KJCD	LIC-N 282C1	Longmont	CO 183.7	118.90	82.0	36.90
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KKAW	RSV 282C3	Albin	WY 50.0	114.10	76.0	38.10
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KKAW	APP-N 282C3	Albin	WY 45.4	115.87	76.0	39.87
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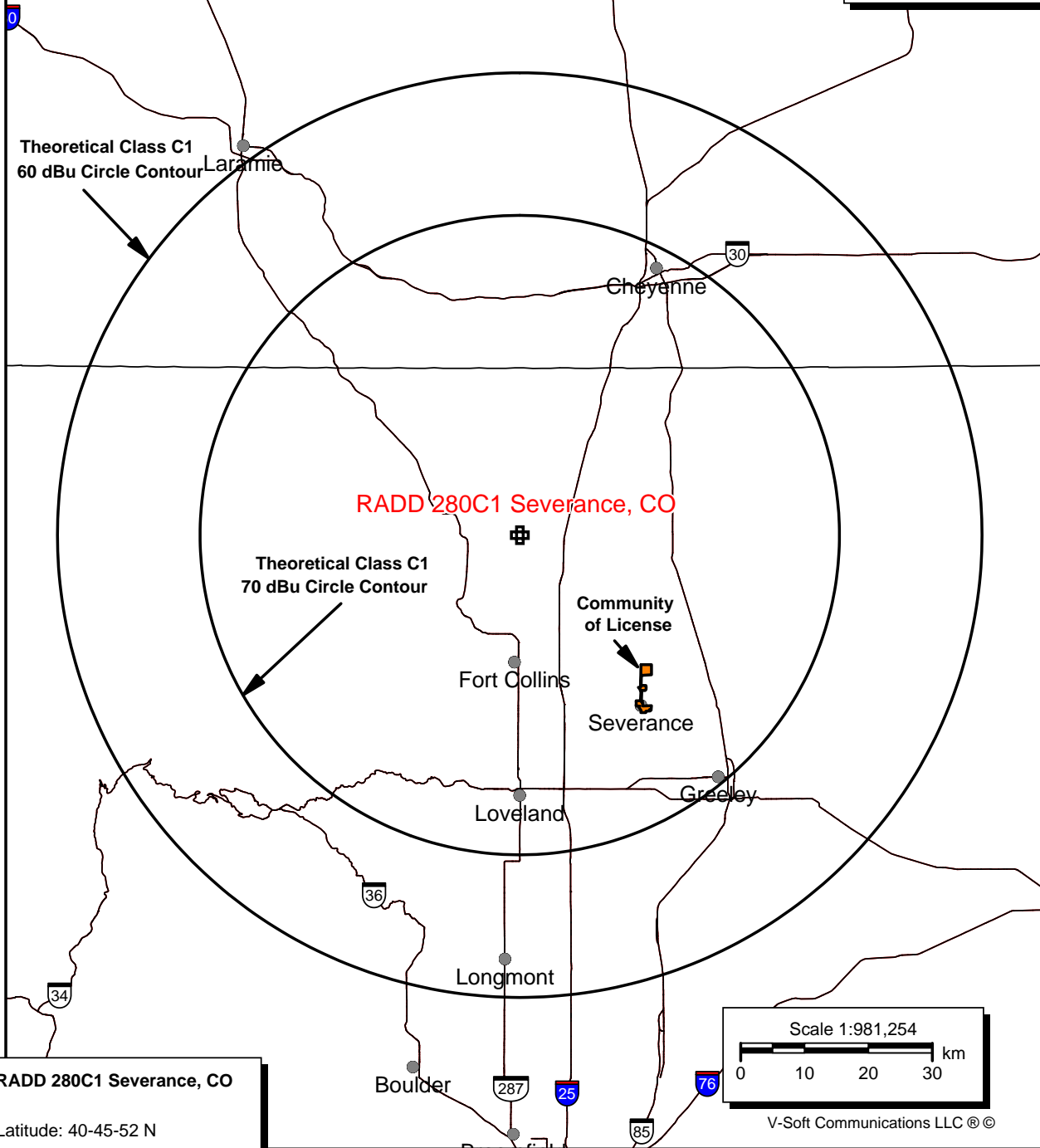
RS4479	RSV 283C3	Fort Morgan	CO 114.2	131.65	76.0	55.65
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AP3106	APP 283C3	Fort Morgan	CO 113.7	132.96	76.0	56.96
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Exhibit 2

Allotment Reference Site City-Grade Coverage Map

Allotment Site
Contour Map



RADD 280C1 Severance, CO

Latitude: 40-45-52 N
Longitude: 105-04-28 W
ERP: 100.00 kW
HAAT: 299.0 m
Channel: 280 C1
Frequency: 103.9 MHz
AMSL Height: 1981.42 m
Elevation: 1645.79 m
Horiz. Pattern: Omni
Vert. Pattern: No
Prop Model: None

Exhibit 3

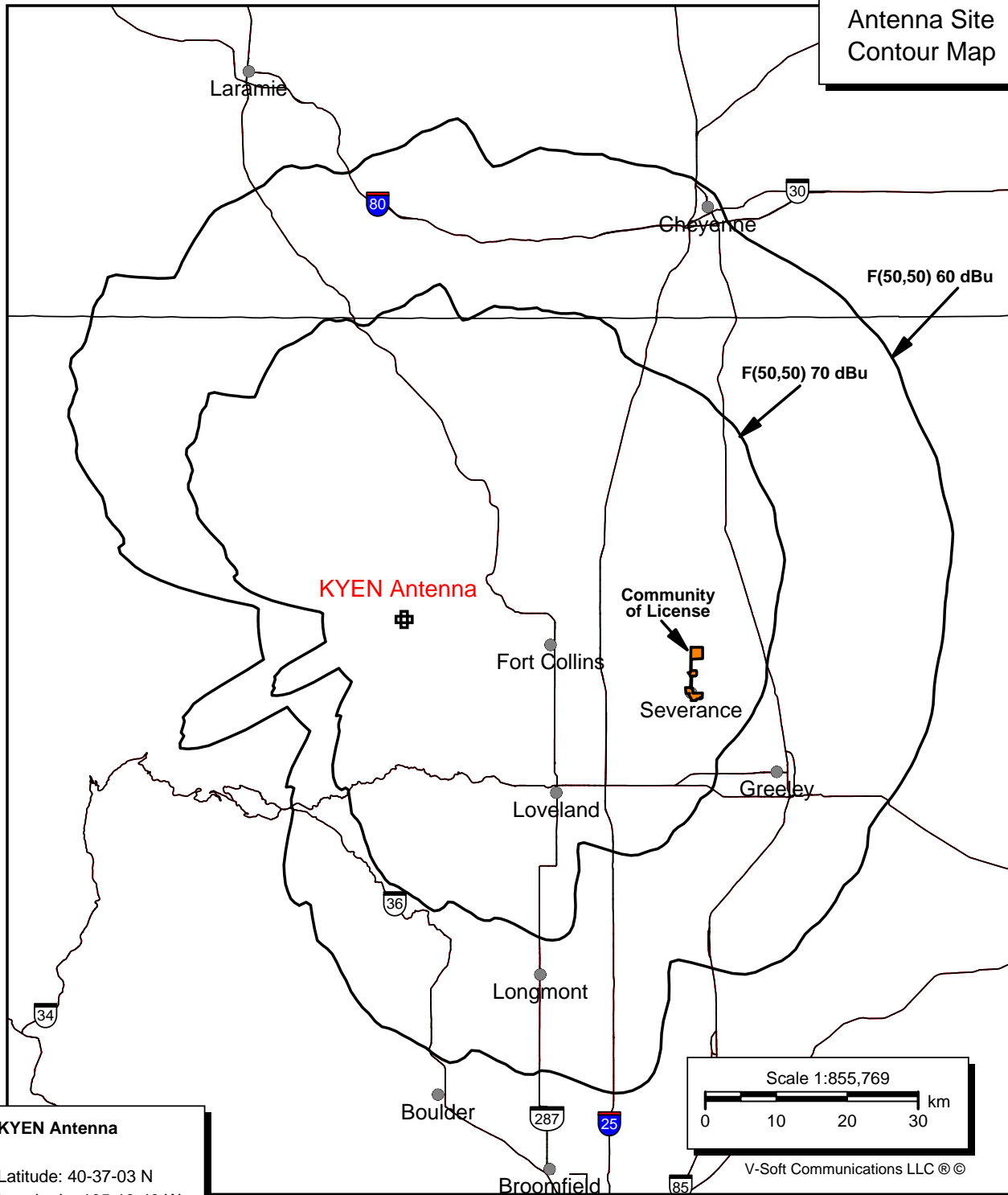
Allotment Reference Site Topographic Map

Exhibit 4

Proposed Antenna Site Contour Map:

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

Antenna Site Contour Map



KYEN Antenna

Latitude: 40-37-03 N
Longitude: 105-19-40 W
ERP: 16.50 kW
HAAT: 372.15 m
Channel: 280 C1
Frequency: 103.9 MHz
AMSL Height: 2560.0 m
Elevation: 2524.0 m
Horiz. Pattern: Omni
Vert. Pattern: No
Prop Model: None

Exhibit 5

Proposed Antenna Site Channel Spacings Study

KYEN 280C1 Antenna Site
Channel Spacings Study

REFERENCE
40 37 03.0 N.
105 19 40.0 W.

CLASS = C1 Int = C
Current Spacings

DISPLAY DATES
DATA 09-28-07
SEARCH 10-07-07

----- Channel 280 - 103.9 MHz -----

Call		Channel	Location		Azi	Dist	FCC	Margin
RADD	ADD	280C1	Ault	CO	36.4	17.62	245.0	-227.38
RADD	ADD	280C1	Ault	CO	44.9	20.83	245.0	-224.17
Of No Concern: This Petition for Rulemaking was dismissed by staff letter and its associated Petition for Reconsideration has been withdrawn by the petitioner. See Laramie, WY; Cheyenne, WY; and Ault, CO. No docket number was assigned.								
RDEL	DEL	280C2	Cheyenne	WY	37.0	72.63	224.0	-151.37
Of No Concern: This Petition for Rulemaking was dismissed by staff letter and its associated Petition for Reconsideration has been withdrawn by the petitioner. See Laramie, WY; Cheyenne, WY; and Ault, CO. No docket number was assigned.								
KYEN	CP	280C2	Cheyenne	WY	44.7	78.51	224.0	-145.49
Of No Concern: Current Authorization for instant facility.								
KRQU	CP	283C2	Laramie	WY	350.5	55.33	79.0	-23.67
Of No Concern: KRQU has contemporaneously and contingently filed a modification application to have its channel changed to its I.F. channel, 230A, at a new antenna site. This change was addressed in the allotment stage of this Application.								
KOZY-FM	LIC	280C3	Gering	NE	43.9	194.04	211.0	-16.96
Of No Concern: Channel 280C3 was deleted from Gering in MM Docket 97-106. Pursuant to BPH-20041129AJA, KOZY-FM's channel was changed to Channel 227C0. On 8/27/07, KOZY-FM commenced program tests on Channel 227C0 and filed BLH-20070827AED.								
KYZX	LIC-N	280C2	Pueblo West	CO	169.0	211.64	224.0	-12.36
Of Concern: Applicant Requests Section 73.215 Contour Protection Processing towards this station.								
RDEL	DEL	278C	Denver	CO	175.4	98.79	105.0	-6.21
Of No Concern: Channel 278C was deleted at Denver by BPH-20061116ADQ.								
KFMU-FM	LIC-N	281C3	Oak Creek	CO	252.6	137.96	144.0	-6.04
Of Concern: Applicant Requests Section 73.215 Contour Protection Processing towards this station.								
KRQU	LIC	283C2	Laramie	WY	352.3	77.71	79.0	-1.29
Of No Concern: KRQU has contemporaneously and contingently filed a modification application to have its channel changed to its I.F. channel, 230A, at a new antenna site. This change was addressed in the allotment stage of this Application.								
KSNO-FM	LIC	280A	Snowmass Village	CO	222.2	204.12	200.0	4.12
KRFX	CP -D	278C0	Denver	CO	175.4	98.51	94.0	4.51
RADD	ADD	278C0	Denver	CO	175.4	98.79	94.0	4.79
KRFX	LIC	278C0	Denver	CO	175.4	98.79	94.0	4.79
RADD	ADD	283C2	Laramie	WY	340.1	90.53	79.0	11.53
RDEL	DEL	283C2	Laramie	WY	355.0	94.26	79.0	15.26
RADD	ADD	277C2	Cheyenne	WY	37.2	97.75	79.0	18.75
RADD	ADD	277C2	Cheyenne	WY	33.4	99.60	79.0	20.60
KJCD	LIC-N	282C1	Longmont	CO	172.3	103.27	82.0	21.27
RADD	ADD	277C2	Cheyenne	WY	32.8	101.51	79.0	22.51

Exhibit 5A

Section 73.215 Contour Overlap Tabulation

**KYEN(FM) 280C1 60 dBu Protected Contour
vs:
KYZX(FM) 280C2 40 dBu Interfering Contour**

10-07-2007 30 Sec. Terrain Data

KYEN Proposed
Channel = 280C1
Max ERP = 16.5 kW
RCAMSL = 2560 M
N. Lat = 403703.0
W. Lng = 1051940.0

KYZX BLH20070326AGF
Channel = 280C2
Max ERP = 1.75 kW
RCAMSL = 2912 M
N. Lat = 38 44 44
W. Lng = 104 51 42

Protected
60 dBu

Interfering
40 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
114.0	016.5000	0573.7	071.9	008.0	001.7500	1020.6	180.4	30.3
115.0	016.5000	0579.2	072.2	008.0	001.7500	1020.6	179.1	30.6
116.0	016.5000	0585.4	072.5	008.0	001.7500	1020.6	177.8	30.8
117.0	016.5000	0590.4	072.7	007.9	001.7500	1020.6	176.6	31.1
118.0	016.5000	0593.2	072.8	007.8	001.7500	1020.6	175.3	31.4
119.0	016.5000	0592.8	072.8	007.7	001.7500	1020.6	174.1	31.6
120.0	016.5000	0590.8	072.7	007.5	001.7500	1015.6	173.0	31.8
121.0	016.5000	0587.6	072.6	007.3	001.7500	1015.6	171.9	32.1
122.0	016.5000	0584.9	072.4	007.1	001.7500	1015.6	170.8	32.3
123.0	016.5000	0582.5	072.3	006.9	001.7500	1015.6	169.7	32.6
124.0	016.5000	0579.4	072.2	006.6	001.7500	1015.6	168.6	32.8
125.0	016.5000	0575.5	072.0	006.4	001.7500	1011.1	167.6	33.0
126.0	016.5000	0572.0	071.8	006.1	001.7500	1011.1	166.6	33.2
127.0	016.5000	0569.9	071.7	005.9	001.7500	1011.1	165.5	33.5
128.0	016.5000	0568.7	071.7	005.6	001.7500	1011.1	164.5	33.7
129.0	016.5000	0567.2	071.6	005.4	001.7500	1006.3	163.5	33.9
130.0	016.5000	0565.0	071.5	005.1	001.7500	1006.3	162.5	34.2
131.0	016.5000	0560.8	071.3	004.8	001.7500	1006.3	161.6	34.4
132.0	016.5000	0553.8	070.9	004.4	001.7500	1001.0	160.9	34.5
133.0	016.5000	0544.5	070.4	004.0	001.7500	1001.0	160.2	34.7
134.0	016.5000	0534.7	069.8	003.6	001.7500	1001.0	159.7	34.8
135.0	016.5000	0523.3	069.1	003.1	001.7500	0996.6	159.2	34.9
136.0	016.5000	0507.9	068.0	002.5	001.7500	0996.6	159.0	34.9
137.0	016.5000	0488.1	066.7	001.9	001.7500	0991.7	159.2	34.9
138.0	016.5000	0466.0	065.1	001.2	001.7500	0986.9	159.5	34.7
139.0	016.5000	0444.9	063.8	000.6	001.7500	0986.9	159.7	34.7
140.0	016.5000	0428.5	062.8	000.1	001.7500	0982.6	159.7	34.6
141.0	016.5000	0421.3	062.4	359.7	001.7500	0982.6	159.4	34.7
142.0	016.5000	0425.2	062.6	359.4	001.7500	0978.4	158.5	34.9
143.0	016.5000	0440.3	063.5	359.3	001.7500	0978.4	157.1	35.2
144.0	016.5000	0461.9	064.9	359.3	001.7500	0978.4	155.4	35.7
145.0	016.5000	0483.7	066.3	359.2	001.7500	0978.4	153.5	36.1
146.0	016.5000	0503.3	067.7	359.2	001.7500	0978.4	151.7	36.6
147.0	016.5000	0521.9	069.0	359.0	001.7500	0978.4	150.0	37.0
148.0	016.5000	0541.8	070.2	358.9	001.7500	0978.4	148.3	37.5
149.0	016.5000	0563.4	071.4	358.7	001.7500	0978.4	146.6	37.9
150.0	016.5000	0584.1	072.4	358.5	001.7500	0974.0	145.2	38.3
151.0	016.5000	0599.5	073.1	358.1	001.7500	0974.0	144.0	38.6
152.0	016.5000	0607.8	073.4	357.7	001.7500	0974.0	143.1	38.8
153.0	016.5000	0609.6	073.5	357.3	001.7500	0969.1	142.5	38.9
154.0	016.5000	0605.5	073.3	356.8	001.7500	0969.1	142.2	39.0
155.0	016.5000	0595.4	072.9	356.3	001.7500	0963.4	142.1	39.0
156.0	016.5000	0579.7	072.2	355.7	001.7500	0963.4	142.3	38.9
157.0	016.5000	0560.5	071.3	355.1	001.7500	0955.8	142.7	38.8
158.0	016.5000	0540.8	070.2	354.5	001.7500	0955.8	143.4	38.6
159.0	016.5000	0522.9	069.1	353.9	001.7500	0947.3	144.2	38.3
160.0	016.5000	0506.2	067.9	353.4	001.7500	0937.0	145.0	38.0
161.0	016.5000	0491.4	066.9	352.9	001.7500	0937.0	145.7	37.8
162.0	016.5000	0481.6	066.2	352.4	001.7500	0923.4	146.2	37.5
163.0	016.5000	0478.4	066.0	351.9	001.7500	0923.4	146.2	37.5
164.0	016.5000	0475.6	065.8	351.5	001.7500	0909.3	146.3	37.4
165.0	016.5000	0468.9	065.3	351.0	001.7500	0909.3	146.6	37.3
166.0	016.5000	0456.4	064.5	350.5	001.7500	0909.3	147.3	37.1
167.0	016.5000	0444.2	063.7	350.1	001.7500	0895.6	148.0	36.8

168.0	016.5000	0430.4	062.9	349.7	001.7500	0895.6	148.8	36.6
169.0	016.5000	0419.9	062.3	349.2	001.7500	0883.5	149.4	36.3
170.0	016.5000	0414.6	062.0	348.8	001.7500	0883.5	149.7	36.3
171.0	016.5000	0418.9	062.2	348.4	001.7500	0871.7	149.5	36.2
172.0	016.5000	0424.7	062.6	348.0	001.7500	0871.7	149.2	36.3
173.0	016.5000	0427.9	062.8	347.6	001.7500	0871.7	149.1	36.3
174.0	016.5000	0421.9	062.4	347.2	001.7500	0860.3	149.6	36.1
175.0	016.5000	0409.5	061.7	346.8	001.7500	0860.3	150.5	35.8
176.0	016.5000	0398.0	061.0	346.5	001.7500	0849.7	151.3	35.5
177.0	016.5000	0384.4	060.2	346.1	001.7500	0849.7	152.3	35.3
178.0	016.5000	0371.1	059.4	345.8	001.7500	0849.7	153.3	35.0
179.0	016.5000	0359.3	058.7	345.5	001.7500	0849.7	154.2	34.8
180.0	016.5000	0352.3	058.2	345.2	001.7500	0838.0	154.9	34.5
181.0	016.5000	0345.3	057.7	344.9	001.7500	0838.0	155.6	34.3
182.0	016.5000	0339.2	057.3	344.6	001.7500	0838.0	156.3	34.1
183.0	016.5000	0333.2	056.9	344.3	001.7500	0823.4	157.0	33.8
184.0	016.5000	0321.3	056.1	344.0	001.7500	0823.4	158.1	33.6
185.0	016.5000	0305.3	055.1	343.9	001.7500	0823.4	159.4	33.2
186.0	016.5000	0286.7	053.8	343.7	001.7500	0823.4	161.0	32.8
187.0	016.5000	0269.0	052.6	343.6	001.7500	0823.4	162.5	32.5
188.0	016.5000	0253.1	051.4	343.5	001.7500	0806.5	163.9	31.9
189.0	016.5000	0239.6	050.5	343.3	001.7500	0806.5	165.1	31.6
190.0	016.5000	0227.8	049.6	343.2	001.7500	0806.5	166.3	31.3
191.0	016.5000	0216.6	048.7	343.1	001.7500	0806.5	167.5	31.1
192.0	016.5000	0205.4	047.8	343.0	001.7500	0806.5	168.7	30.8
193.0	016.5000	0195.1	047.0	342.9	001.7500	0806.5	169.8	30.5
194.0	016.5000	0185.9	046.2	342.8	001.7500	0806.5	170.8	30.2
195.0	016.5000	0176.6	045.4	342.7	001.7500	0806.5	171.9	30.0

Exhibit 5B

Section 73.215 Contour Overlap Tabulation

**KYEN(FM) 280C1 40 dBu Interfering Contour
vs:
KYZX(FM) 280C2 60 dBu Protected Contour**

10-07-2007 30 Sec. Terrain Data

KYZX BLH20070326AGF
 Channel = 280C2
 Max ERP = 1.75 kW
 RCAMSL = 2912 M
 N. Lat = 38 44 44
 W. Lng = 104 51 42

KYEN Proposed
 Channel = 280C1
 Max ERP = 16.5 kW
 RCAMSL = 2560 M
 N. Lat = 403703.0
 W. Lng = 1051940.0

Protected
 60 dBu

Interfering
 40 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
313.0	001.7500	0140.8	024.9	173.4	016.5000	0427.9	192.1	31.0
314.0	001.7500	0142.5	025.0	173.4	016.5000	0427.9	191.7	31.0
315.0	001.7500	0145.6	025.3	173.3	016.5000	0427.9	191.2	31.1
316.0	001.7500	0152.5	025.8	173.3	016.5000	0427.9	190.6	31.2
317.0	001.7500	0163.0	026.6	173.3	016.5000	0427.9	189.7	31.4
318.0	001.7500	0176.2	027.5	173.4	016.5000	0427.9	188.6	31.6
319.0	001.7500	0194.1	028.7	173.5	016.5000	0427.9	187.3	31.8
320.0	001.7500	0220.3	030.6	173.7	016.5000	0421.9	185.5	32.0
321.0	001.7500	0254.0	032.9	173.9	016.5000	0421.9	183.3	32.4
322.0	001.7500	0291.1	035.1	174.1	016.5000	0421.9	181.1	32.8
323.0	001.7500	0328.3	037.1	174.3	016.5000	0421.9	179.1	33.2
324.0	001.7500	0363.2	038.9	174.4	016.5000	0421.9	177.2	33.6
325.0	001.7500	0394.2	040.2	174.5	016.5000	0421.9	175.7	33.9
326.0	001.7500	0424.1	041.6	174.5	016.5000	0421.9	174.2	34.2
327.0	001.7500	0455.8	043.1	174.5	016.5000	0421.9	172.5	34.6
328.0	001.7500	0492.0	044.8	174.5	016.5000	0409.5	170.6	34.7
329.0	001.7500	0532.3	046.9	174.6	016.5000	0409.5	168.3	35.2
330.0	001.7500	0572.6	048.9	174.6	016.5000	0409.5	166.2	35.6
331.0	001.7500	0608.2	050.3	174.6	016.5000	0409.5	164.5	36.0
332.0	001.7500	0638.6	051.5	174.4	016.5000	0421.9	163.2	36.5
333.0	001.7500	0664.7	052.4	174.3	016.5000	0421.9	162.0	36.7
334.0	001.7500	0687.1	053.1	174.1	016.5000	0421.9	160.9	37.0
335.0	001.7500	0705.9	053.8	173.8	016.5000	0421.9	160.0	37.1
336.0	001.7500	0722.9	054.3	173.5	016.5000	0421.9	159.2	37.3
337.0	001.7500	0737.2	054.8	173.3	016.5000	0427.9	158.5	37.6
338.0	001.7500	0747.8	055.1	173.0	016.5000	0427.9	158.0	37.7
339.0	001.7500	0755.6	055.3	172.6	016.5000	0427.9	157.5	37.8
340.0	001.7500	0763.4	055.5	172.3	016.5000	0424.7	157.0	37.8
341.0	001.7500	0774.5	055.9	172.0	016.5000	0424.7	156.5	37.9
342.0	001.7500	0789.2	056.3	171.7	016.5000	0424.7	155.9	38.0
343.0	001.7500	0806.5	056.8	171.3	016.5000	0418.9	155.3	38.0
344.0	001.7500	0823.4	057.2	171.0	016.5000	0418.9	154.7	38.2
345.0	001.7500	0838.0	057.6	170.6	016.5000	0418.9	154.2	38.3
346.0	001.7500	0849.7	057.9	170.3	016.5000	0414.6	153.9	38.2
347.0	001.7500	0860.3	058.2	169.9	016.5000	0414.6	153.5	38.3
348.0	001.7500	0871.7	058.4	169.5	016.5000	0414.6	153.2	38.4
349.0	001.7500	0883.5	058.7	169.1	016.5000	0419.9	152.9	38.5
350.0	001.7500	0895.6	059.0	168.8	016.5000	0419.9	152.7	38.6
351.0	001.7500	0909.3	059.3	168.4	016.5000	0430.4	152.4	38.9
352.0	001.7500	0923.4	059.5	168.0	016.5000	0430.4	152.2	39.0
353.0	001.7500	0937.0	059.8	167.6	016.5000	0430.4	152.0	39.0
354.0	001.7500	0947.3	060.0	167.2	016.5000	0444.2	151.9	39.3
355.0	001.7500	0955.8	060.2	166.8	016.5000	0444.2	151.9	39.3
356.0	001.7500	0963.4	060.4	166.4	016.5000	0456.4	151.9	39.6
357.0	001.7500	0969.1	060.5	166.0	016.5000	0456.4	151.9	39.6
358.0	001.7500	0974.0	060.6	165.6	016.5000	0456.4	152.1	39.6
359.0	001.7500	0978.4	060.7	165.2	016.5000	0468.9	152.2	39.8
000.0	001.7500	0982.6	060.7	164.8	016.5000	0468.9	152.4	39.8
001.0	001.7500	0986.9	060.8	164.4	016.5000	0475.6	152.6	39.9
002.0	001.7500	0991.7	060.9	164.0	016.5000	0475.6	152.8	39.8
003.0	001.7500	0996.6	061.0	163.6	016.5000	0475.6	153.1	39.8
004.0	001.7500	1001.0	061.1	163.2	016.5000	0478.4	153.4	39.8
005.0	001.7500	1006.3	061.2	162.8	016.5000	0478.4	153.7	39.7
006.0	001.7500	1011.1	061.3	162.4	016.5000	0481.6	154.0	39.7
007.0	001.7500	1015.6	061.4	162.0	016.5000	0481.6	154.3	39.6

008.0	001.7500	1020.6	061.5	161.7	016.5000	0481.6	154.7	39.5
009.0	001.7500	1026.1	061.6	161.3	016.5000	0491.4	155.1	39.7
010.0	001.7500	1030.9	061.7	160.9	016.5000	0491.4	155.5	39.6
011.0	001.7500	1034.6	061.7	160.6	016.5000	0491.4	156.0	39.4
012.0	001.7500	1037.2	061.8	160.2	016.5000	0506.2	156.5	39.6
013.0	001.7500	1039.1	061.8	159.9	016.5000	0506.2	157.1	39.5
014.0	001.7500	1040.5	061.9	159.5	016.5000	0506.2	157.7	39.4
015.0	001.7500	1041.8	061.9	159.2	016.5000	0522.9	158.3	39.5
016.0	001.7500	1043.1	061.9	158.9	016.5000	0522.9	158.9	39.4
017.0	001.7500	1044.2	061.9	158.6	016.5000	0522.9	159.5	39.2
018.0	001.7500	1044.9	061.9	158.3	016.5000	0540.8	160.2	39.4
019.0	001.7500	1045.5	062.0	158.0	016.5000	0540.8	160.9	39.2
020.0	001.7500	1045.8	062.0	157.7	016.5000	0540.8	161.6	39.0
021.0	001.7500	1045.9	062.0	157.4	016.5000	0560.5	162.3	39.2
022.0	001.7500	1045.9	062.0	157.1	016.5000	0560.5	163.1	39.0
023.0	001.7500	1045.8	062.0	156.8	016.5000	0560.5	163.8	38.8
024.0	001.7500	1045.5	062.0	156.6	016.5000	0560.5	164.6	38.6
025.0	001.7500	1044.9	061.9	156.3	016.5000	0579.7	165.4	38.7
026.0	001.7500	1044.1	061.9	156.1	016.5000	0579.7	166.3	38.5
027.0	001.7500	1043.6	061.9	155.8	016.5000	0579.7	167.1	38.3
028.0	001.7500	1043.2	061.9	155.6	016.5000	0579.7	168.0	38.1
029.0	001.7500	1043.2	061.9	155.4	016.5000	0595.4	168.8	38.0
030.0	001.7500	1043.6	061.9	155.2	016.5000	0595.4	169.7	37.8
031.0	001.7500	1044.7	061.9	154.9	016.5000	0595.4	170.6	37.6
032.0	001.7500	1046.6	062.0	154.7	016.5000	0595.4	171.5	37.4
033.0	001.7500	1049.0	062.0	154.5	016.5000	0595.4	172.4	37.2
034.0	001.7500	1051.3	062.1	154.3	016.5000	0605.5	173.3	37.1
035.0	001.7500	1053.5	062.1	154.1	016.5000	0605.5	174.2	36.9
036.0	001.7500	1055.4	062.1	153.9	016.5000	0605.5	175.1	36.7
037.0	001.7500	1057.1	062.2	153.8	016.5000	0605.5	176.1	36.4
038.0	001.7500	1058.6	062.2	153.6	016.5000	0605.5	177.0	36.2
039.0	001.7500	1059.9	062.2	153.4	016.5000	0609.6	178.0	36.1
040.0	001.7500	1060.9	062.2	153.3	016.5000	0609.6	179.0	35.9
041.0	001.7500	1061.6	062.3	153.1	016.5000	0609.6	180.0	35.7
042.0	001.7500	1062.3	062.3	153.0	016.5000	0609.6	181.0	35.5
043.0	001.7500	1063.1	062.3	152.9	016.5000	0609.6	182.0	35.3
044.0	001.7500	1064.0	062.3	152.8	016.5000	0609.6	183.0	35.1
045.0	001.7500	1064.7	062.3	152.6	016.5000	0609.6	184.0	34.9
046.0	001.7500	1065.3	062.3	152.5	016.5000	0609.6	185.1	34.7
047.0	001.7500	1065.9	062.3	152.4	016.5000	0607.8	186.1	34.4
048.0	001.7500	1066.7	062.3	152.3	016.5000	0607.8	187.2	34.3
049.0	001.7500	1067.7	062.4	152.3	016.5000	0607.8	188.2	34.1
050.0	001.7500	1069.0	062.4	152.2	016.5000	0607.8	189.3	33.9
051.0	001.7500	1070.2	062.4	152.1	016.5000	0607.8	190.3	33.7
052.0	001.7500	1071.3	062.4	152.0	016.5000	0607.8	191.4	33.5
053.0	001.7500	1072.4	062.5	152.0	016.5000	0607.8	192.5	33.3
054.0	001.7500	1073.8	062.5	151.9	016.5000	0607.8	193.5	33.1
055.0	001.7500	1075.3	062.5	151.8	016.5000	0607.8	194.6	32.9
056.0	001.7500	1076.8	062.5	151.8	016.5000	0607.8	195.7	32.7
057.0	001.7500	1078.3	062.6	151.8	016.5000	0607.8	196.8	32.5
058.0	001.7500	1079.6	062.6	151.7	016.5000	0607.8	197.9	32.3
059.0	001.7500	1080.9	062.6	151.7	016.5000	0607.8	199.0	32.0
060.0	001.7500	1082.1	062.6	151.7	016.5000	0607.8	200.1	31.8
061.0	001.7500	1083.6	062.7	151.7	016.5000	0607.8	201.2	31.6
062.0	001.7500	1085.2	062.7	151.6	016.5000	0607.8	202.3	31.4
063.0	001.7500	1086.8	062.7	151.6	016.5000	0607.8	203.3	31.2
064.0	001.7500	1088.5	062.7	151.6	016.5000	0607.8	204.4	31.0
065.0	001.7500	1090.1	062.8	151.6	016.5000	0607.8	205.5	30.8
066.0	001.7500	1091.6	062.8	151.6	016.5000	0607.8	206.6	30.6
067.0	001.7500	1093.2	062.8	151.7	016.5000	0607.8	207.7	30.4
068.0	001.7500	1094.7	062.9	151.7	016.5000	0607.8	208.8	30.2
069.0	001.7500	1096.4	062.9	151.7	016.5000	0607.8	209.9	30.0
070.0	001.7500	1098.3	062.9	151.7	016.5000	0607.8	211.0	29.8
071.0	001.7500	1100.2	063.0	151.8	016.5000	0607.8	212.1	29.7
072.0	001.7500	1102.1	063.0	151.8	016.5000	0607.8	213.2	29.5
073.0	001.7500	1103.9	063.0	151.8	016.5000	0607.8	214.3	29.3
074.0	001.7500	1105.5	063.0	151.9	016.5000	0607.8	215.4	29.1

Exhibit 5C

Section 73.215 Contour Overlap Tabulation

**KYEN(FM) 280C1 60 dBu Protected Contour
vs:
KFMU-FM 281 54 dBu Interfering Contour**

10-07-2007 30 Sec. Terrain Data

KYEN Proposed
Channel = 280C1
Max ERP = 16.5 kW
RCAMSL = 2560 M
N. Lat = 403703.0
W. Lng = 1051940.0

KFMU-F BLH19940111KC
Channel = 281C3
Max ERP = 1.4 kW
RCAMSL = 2831 M
N. Lat = 40 14 10
W. Lng = 106 52 30

Protected
60 dBu

Interfering
54 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
215.0	016.5000	0057.0	027.6	079.8	001.4000	0209.7	117.3	30.0
216.0	016.5000	0053.0	026.7	079.4	001.4000	0210.5	117.6	29.9
217.0	016.5000	0046.4	025.1	078.7	001.4000	0210.5	118.5	29.7
218.0	016.5000	0038.5	022.9	077.8	001.4000	0210.2	119.8	29.5
219.0	016.5000	0030.0	020.6	077.0	001.4000	0207.5	121.4	29.1
220.0	016.5000	0021.7	020.5	076.8	001.4000	0207.5	121.2	29.1
221.0	016.5000	0014.1	020.5	076.7	001.4000	0207.5	121.0	29.2
222.0	016.5000	0008.5	020.5	076.5	001.4000	0207.5	120.8	29.2
223.0	016.5000	0005.6	020.5	076.4	001.4000	0198.8	120.6	29.1
224.0	016.5000	0004.5	020.5	076.3	001.4000	0198.8	120.4	29.1
225.0	016.5000	0002.0	020.5	076.1	001.4000	0198.8	120.2	29.1
226.0	016.5000	-0002.5	020.5	076.0	001.4000	0198.8	120.0	29.2
227.0	016.5000	-0006.7	020.5	075.8	001.4000	0198.8	119.8	29.2
228.0	016.5000	-0007.8	020.5	075.7	001.4000	0198.8	119.6	29.2
229.0	016.5000	-0005.2	020.5	075.5	001.4000	0198.8	119.5	29.3
230.0	016.5000	0001.2	020.5	075.4	001.4000	0188.9	119.3	29.1
231.0	016.5000	0010.2	020.5	075.2	001.4000	0188.9	119.1	29.1
232.0	016.5000	0019.1	020.5	075.1	001.4000	0188.9	119.0	29.1
233.0	016.5000	0026.8	020.5	074.9	001.4000	0188.9	118.8	29.2
234.0	016.5000	0034.7	021.9	075.0	001.4000	0188.9	117.5	29.4
235.0	016.5000	0044.4	024.6	075.3	001.4000	0188.9	114.8	30.0
236.0	016.5000	0055.7	027.3	075.6	001.4000	0198.8	112.1	30.8
237.0	016.5000	0067.9	029.7	075.7	001.4000	0198.8	109.7	31.3
238.0	016.5000	0079.5	032.0	075.9	001.4000	0198.8	107.4	31.9
239.0	016.5000	0089.2	033.9	075.9	001.4000	0198.8	105.4	32.4
240.0	016.5000	0095.8	035.1	075.8	001.4000	0198.8	104.1	32.7
241.0	016.5000	0098.5	035.5	075.5	001.4000	0198.8	103.5	32.9
242.0	016.5000	0097.5	035.4	075.2	001.4000	0188.9	103.5	32.6
243.0	016.5000	0094.8	034.9	074.8	001.4000	0188.9	103.8	32.5
244.0	016.5000	0091.7	034.4	074.4	001.4000	0179.5	104.2	32.1
245.0	016.5000	0088.9	033.8	074.0	001.4000	0179.5	104.6	32.0
246.0	016.5000	0086.1	033.3	073.6	001.4000	0179.5	105.0	31.9
247.0	016.5000	0081.8	032.5	073.3	001.4000	0174.5	105.8	31.6
248.0	016.5000	0076.7	031.5	072.9	001.4000	0174.5	106.7	31.3
249.0	016.5000	0069.1	030.0	072.5	001.4000	0174.5	108.1	31.0
250.0	016.5000	0059.8	028.2	072.2	001.4000	0173.3	109.9	30.6
251.0	016.5000	0051.1	026.3	071.9	001.4000	0173.3	111.8	30.2
252.0	016.5000	0042.9	024.2	071.7	001.4000	0173.3	113.9	29.8
253.0	016.5000	0034.7	021.9	071.5	001.4000	0173.8	116.1	29.3
254.0	016.5000	0024.4	020.5	071.3	001.4000	0173.8	117.5	29.0
255.0	016.5000	0010.0	020.5	071.1	001.4000	0173.8	117.5	29.0
256.0	016.5000	-0009.3	020.5	071.0	001.4000	0173.8	117.5	29.0
257.0	016.5000	-0029.3	020.5	070.8	001.4000	0173.8	117.5	29.0
258.0	016.5000	-0051.0	020.5	070.6	001.4000	0173.8	117.6	29.0
259.0	016.5000	-0071.2	020.5	070.4	001.4000	0176.1	117.6	29.1
260.0	016.5000	-0087.7	020.5	070.3	001.4000	0176.1	117.7	29.1
261.0	016.5000	-0100.6	020.5	070.1	001.4000	0176.1	117.7	29.1
262.0	016.5000	-0109.7	020.5	069.9	001.4000	0176.1	117.8	29.0
263.0	016.5000	-0119.4	020.5	069.7	001.4000	0176.1	117.9	29.0
264.0	016.5000	-0127.9	020.5	069.6	001.4000	0176.1	117.9	29.0
265.0	016.5000	-0130.9	020.5	069.4	001.4000	0178.3	118.0	29.1
266.0	016.5000	-0121.4	020.5	069.2	001.4000	0178.3	118.1	29.0
267.0	016.5000	-0106.9	020.5	069.1	001.4000	0178.3	118.2	29.0
268.0	016.5000	-0093.2	020.5	068.9	001.4000	0178.3	118.3	29.0
269.0	016.5000	-0079.8	020.5	068.7	001.4000	0178.3	118.5	29.0

270.0	016.5000	-0065.0	020.5	068.6	001.4000	0178.3	118.6	29.0
271.0	016.5000	-0047.9	020.5	068.4	001.4000	0177.3	118.7	28.9
272.0	016.5000	-0030.8	020.5	068.3	001.4000	0177.3	118.8	28.9
273.0	016.5000	-0013.7	020.5	068.1	001.4000	0177.3	119.0	28.8
274.0	016.5000	0000.3	020.5	067.9	001.4000	0177.3	119.1	28.8
275.0	016.5000	0013.0	020.5	067.8	001.4000	0177.3	119.3	28.8
276.0	016.5000	0027.3	020.5	067.6	001.4000	0177.3	119.4	28.8
277.0	016.5000	0043.8	024.4	066.6	001.4000	0172.9	116.2	29.3
278.0	016.5000	0060.3	028.3	065.4	001.4000	0167.8	113.2	29.7
279.0	016.5000	0076.3	031.4	064.3	001.4000	0170.5	110.9	30.3
280.0	016.5000	0090.0	034.0	063.3	001.4000	0175.7	109.0	30.8
281.0	016.5000	0103.2	036.3	062.3	001.4000	0182.1	107.6	31.4
282.0	016.5000	0114.3	037.9	061.5	001.4000	0188.5	106.7	31.7
283.0	016.5000	0125.0	039.3	060.7	001.4000	0188.5	106.1	31.9
284.0	016.5000	0135.5	040.6	060.0	001.4000	0195.2	105.6	32.2
285.0	016.5000	0143.9	041.6	059.3	001.4000	0201.2	105.4	32.5
286.0	016.5000	0149.3	042.3	058.7	001.4000	0201.2	105.4	32.5
287.0	016.5000	0152.2	042.7	058.3	001.4000	0206.0	105.7	32.5
288.0	016.5000	0153.3	042.8	058.0	001.4000	0206.0	106.2	32.4
289.0	016.5000	0158.3	043.4	057.5	001.4000	0209.2	106.4	32.5
290.0	016.5000	0164.6	044.2	056.9	001.4000	0209.2	106.5	32.4
291.0	016.5000	0172.1	045.0	056.3	001.4000	0212.7	106.6	32.5
292.0	016.5000	0181.1	045.8	055.7	001.4000	0212.7	106.8	32.4
293.0	016.5000	0191.4	046.7	055.1	001.4000	0218.0	107.0	32.5
294.0	016.5000	0206.1	047.9	054.3	001.4000	0226.1	107.1	32.8
295.0	016.5000	0224.2	049.3	053.4	001.4000	0236.3	107.1	33.1
296.0	016.5000	0240.2	050.5	052.6	001.4000	0236.3	107.3	33.0
297.0	016.5000	0252.3	051.4	052.0	001.4000	0246.9	107.7	33.2
298.0	016.5000	0260.2	051.9	051.5	001.4000	0246.9	108.3	33.0
299.0	016.5000	0267.8	052.5	051.0	001.4000	0257.7	108.9	33.2
300.0	016.5000	0278.3	053.2	050.5	001.4000	0257.7	109.4	33.0
301.0	016.5000	0294.3	054.3	049.8	001.4000	0268.8	109.9	33.2
302.0	016.5000	0310.9	055.4	049.1	001.4000	0279.6	110.5	33.4
303.0	016.5000	0322.5	056.2	048.5	001.4000	0279.6	111.2	33.2
304.0	016.5000	0327.7	056.6	048.2	001.4000	0289.7	112.0	33.2
305.0	016.5000	0329.3	056.7	048.1	001.4000	0289.7	113.0	33.0
306.0	016.5000	0333.7	057.0	047.8	001.4000	0289.7	113.9	32.8
307.0	016.5000	0343.2	057.6	047.4	001.4000	0299.4	114.7	32.8
308.0	016.5000	0355.2	058.4	046.9	001.4000	0299.4	115.6	32.6
309.0	016.5000	0365.0	059.0	046.5	001.4000	0299.4	116.5	32.4
310.0	016.5000	0370.5	059.4	046.3	001.4000	0309.9	117.4	32.5
311.0	016.5000	0372.9	059.5	046.2	001.4000	0309.9	118.4	32.2
312.0	016.5000	0376.0	059.7	046.0	001.4000	0309.9	119.5	32.0
313.0	016.5000	0380.9	060.0	045.8	001.4000	0309.9	120.5	31.8
314.0	016.5000	0386.7	060.3	045.6	001.4000	0309.9	121.5	31.5
315.0	016.5000	0393.2	060.7	045.5	001.4000	0320.6	122.5	31.6
316.0	016.5000	0401.1	061.2	045.2	001.4000	0320.6	123.6	31.4
317.0	016.5000	0410.8	061.7	045.0	001.4000	0320.6	124.7	31.2
318.0	016.5000	0420.7	062.3	044.7	001.4000	0320.6	125.8	30.9
319.0	016.5000	0427.7	062.7	044.6	001.4000	0320.6	126.9	30.7
320.0	016.5000	0428.0	062.8	044.6	001.4000	0320.6	128.0	30.5
321.0	016.5000	0421.6	062.4	044.8	001.4000	0320.6	129.0	30.2
322.0	016.5000	0409.6	061.7	045.1	001.4000	0320.6	130.0	30.0
323.0	016.5000	0394.4	060.8	045.6	001.4000	0309.9	131.0	29.5
324.0	016.5000	0378.7	059.8	046.0	001.4000	0309.9	131.9	29.3
325.0	016.5000	0364.3	059.0	046.5	001.4000	0309.9	132.8	29.1

Exhibit 5D

Section 73.215 Contour Overlap Tabulation

**KYEN(FM) 280C1 54 dBu Interfering Contour
vs:
KFMU-FM 281C3 60 dBu Protected Contour**

10-07-2007 30 Sec. Terrain Data

KFMU-F BLH19940111KC
 Channel = 281C3
 Max ERP = 1.4 kW
 RCAMSL = 2831 M
 N. Lat = 40 14 10
 W. Lng = 106 52 30

KYEN Proposed
 Channel = 280C1
 Max ERP = 16.5 kW
 RCAMSL = 2560 M
 N. Lat = 403703.0
 W. Lng = 1051940.0

Protected
 60 dBu

Interfering
 54 dBu

Azi muth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azi muth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
000.0	001.4000	0616.7	048.5	273.2	016.5000	-0013.7	131.0	32.1
001.0	001.4000	0620.8	048.6	273.3	016.5000	-0013.7	130.2	32.3
002.0	001.4000	0624.9	048.8	273.3	016.5000	-0013.7	129.3	32.4
003.0	001.4000	0629.4	048.9	273.4	016.5000	-0013.7	128.5	32.6
004.0	001.4000	0634.8	049.1	273.5	016.5000	-0013.7	127.6	32.8
005.0	001.4000	0637.2	049.2	273.5	016.5000	0000.3	126.8	32.9
006.0	001.4000	0636.6	049.2	273.5	016.5000	-0013.7	125.9	33.1
007.0	001.4000	0633.1	049.1	273.4	016.5000	-0013.7	125.1	33.2
008.0	001.4000	0629.3	048.9	273.3	016.5000	-0013.7	124.2	33.4
009.0	001.4000	0625.7	048.8	273.2	016.5000	-0013.7	123.4	33.6
010.0	001.4000	0621.1	048.6	273.1	016.5000	-0013.7	122.6	33.7
011.0	001.4000	0616.7	048.5	272.9	016.5000	-0013.7	121.7	33.9
012.0	001.4000	0613.1	048.3	272.8	016.5000	-0013.7	120.9	34.0
013.0	001.4000	0610.2	048.2	272.7	016.5000	-0013.7	120.1	34.2
014.0	001.4000	0608.4	048.1	272.6	016.5000	-0013.7	119.3	34.4
015.0	001.4000	0606.9	048.1	272.4	016.5000	-0030.8	118.5	34.5
016.0	001.4000	0605.4	048.0	272.3	016.5000	-0030.8	117.7	34.7
017.0	001.4000	0603.3	048.0	272.2	016.5000	-0030.8	116.9	34.8
018.0	001.4000	0599.9	047.8	272.0	016.5000	-0030.8	116.2	35.0
019.0	001.4000	0596.4	047.7	271.8	016.5000	-0030.8	115.4	35.1
020.0	001.4000	0593.2	047.6	271.6	016.5000	-0030.8	114.7	35.3
021.0	001.4000	0591.3	047.5	271.4	016.5000	-0047.9	113.9	35.4
022.0	001.4000	0591.9	047.5	271.3	016.5000	-0047.9	113.1	35.6
023.0	001.4000	0595.4	047.6	271.2	016.5000	-0047.9	112.3	35.7
024.0	001.4000	0600.5	047.8	271.1	016.5000	-0047.9	111.5	35.9
025.0	001.4000	0604.8	048.0	271.0	016.5000	-0047.9	110.6	36.0
026.0	001.4000	0607.5	048.1	270.9	016.5000	-0047.9	109.8	36.2
027.0	001.4000	0609.1	048.2	270.7	016.5000	-0047.9	109.1	36.4
028.0	001.4000	0609.0	048.2	270.5	016.5000	-0047.9	108.3	36.5
029.0	001.4000	0606.1	048.1	270.2	016.5000	-0065.0	107.6	36.6
030.0	001.4000	0600.3	047.8	269.9	016.5000	-0065.0	107.0	36.8
031.0	001.4000	0592.6	047.5	269.5	016.5000	-0065.0	106.5	36.9
032.0	001.4000	0582.8	047.2	269.1	016.5000	-0079.8	106.0	37.0
033.0	001.4000	0570.5	046.6	268.6	016.5000	-0079.8	105.6	37.0
034.0	001.4000	0554.3	045.9	268.1	016.5000	-0093.2	105.4	37.1
035.0	001.4000	0533.2	044.9	267.4	016.5000	-0106.9	105.4	37.1
036.0	001.4000	0506.9	043.6	266.5	016.5000	-0106.9	105.6	37.0
037.0	001.4000	0476.4	042.1	265.7	016.5000	-0121.4	106.0	37.0
038.0	001.4000	0444.4	040.6	264.8	016.5000	-0130.9	106.5	36.9
039.0	001.4000	0414.3	039.3	264.0	016.5000	-0127.9	106.9	36.8
040.0	001.4000	0388.6	038.2	263.4	016.5000	-0119.4	107.3	36.7
041.0	001.4000	0367.2	037.3	262.8	016.5000	-0119.4	107.5	36.7
042.0	001.4000	0350.7	036.5	262.3	016.5000	-0109.7	107.7	36.6
043.0	001.4000	0339.2	035.9	261.8	016.5000	-0109.7	107.8	36.6
044.0	001.4000	0330.1	035.4	261.4	016.5000	-0100.6	107.8	36.6
045.0	001.4000	0320.6	034.9	261.0	016.5000	-0100.6	107.8	36.6
046.0	001.4000	0309.9	034.4	260.5	016.5000	-0100.6	108.0	36.6
047.0	001.4000	0299.4	033.8	260.1	016.5000	-0087.7	108.1	36.5
048.0	001.4000	0289.7	033.3	259.7	016.5000	-0087.7	108.3	36.5
049.0	001.4000	0279.6	032.7	259.3	016.5000	-0071.2	108.5	36.5
050.0	001.4000	0268.8	032.0	258.8	016.5000	-0071.2	108.8	36.4
051.0	001.4000	0257.7	031.4	258.4	016.5000	-0051.0	109.1	36.3
052.0	001.4000	0246.9	030.7	258.0	016.5000	-0051.0	109.4	36.3
053.0	001.4000	0236.3	030.1	257.6	016.5000	-0051.0	109.8	36.2
054.0	001.4000	0226.1	029.4	257.2	016.5000	-0029.3	110.2	36.1

055.0	001.4000	0218.0	028.9	256.9	016.5000	-0029.3	110.5	36.1
056.0	001.4000	0212.7	028.6	256.6	016.5000	-0029.3	110.7	36.0
057.0	001.4000	0209.2	028.3	256.3	016.5000	-0009.3	110.7	36.0
058.0	001.4000	0206.0	028.1	256.0	016.5000	-0009.3	110.8	36.0
059.0	001.4000	0201.2	027.8	255.7	016.5000	-0009.3	111.0	36.0
060.0	001.4000	0195.2	027.4	255.4	016.5000	0010.0	111.2	35.9
061.0	001.4000	0188.5	027.0	255.1	016.5000	0010.0	111.5	35.9
062.0	001.4000	0182.1	026.6	254.9	016.5000	0010.0	111.8	35.8
063.0	001.4000	0175.7	026.2	254.6	016.5000	0010.0	112.1	35.8
064.0	001.4000	0170.5	025.8	254.3	016.5000	0024.4	112.4	35.7
065.0	001.4000	0167.8	025.6	254.1	016.5000	0024.4	112.5	35.7
066.0	001.4000	0168.6	025.7	253.9	016.5000	0024.4	112.4	35.7
067.0	001.4000	0172.9	026.0	253.6	016.5000	0024.4	112.0	35.8
068.0	001.4000	0177.3	026.3	253.4	016.5000	0034.7	111.7	36.1
069.0	001.4000	0178.3	026.3	253.2	016.5000	0034.7	111.6	36.1
070.0	001.4000	0176.1	026.2	253.0	016.5000	0034.7	111.7	36.1
071.0	001.4000	0173.8	026.0	252.7	016.5000	0034.7	111.9	36.0
072.0	001.4000	0173.3	026.0	252.5	016.5000	0042.9	111.9	36.5
073.0	001.4000	0174.5	026.1	252.2	016.5000	0042.9	111.8	36.5
074.0	001.4000	0179.5	026.4	252.0	016.5000	0042.9	111.5	36.5
075.0	001.4000	0188.9	027.0	251.7	016.5000	0042.9	111.0	36.6
076.0	001.4000	0198.8	027.6	251.5	016.5000	0051.1	110.4	37.1
077.0	001.4000	0207.5	028.2	251.2	016.5000	0051.1	109.8	37.2
078.0	001.4000	0210.2	028.4	250.9	016.5000	0051.1	109.7	37.2
079.0	001.4000	0210.5	028.4	250.7	016.5000	0051.1	109.8	37.2
080.0	001.4000	0209.7	028.4	250.4	016.5000	0059.8	109.9	37.5
081.0	001.4000	0205.9	028.1	250.2	016.5000	0059.8	110.2	37.5
082.0	001.4000	0199.5	027.7	250.0	016.5000	0059.8	110.8	37.4
083.0	001.4000	0192.3	027.2	249.8	016.5000	0059.8	111.3	37.3
084.0	001.4000	0182.1	026.6	249.7	016.5000	0059.8	112.1	37.1
085.0	001.4000	0170.5	025.8	249.5	016.5000	0059.8	112.9	37.0
086.0	001.4000	0158.1	025.0	249.4	016.5000	0069.1	113.9	37.1
087.0	001.4000	0144.9	024.0	249.4	016.5000	0069.1	114.9	36.9
088.0	001.4000	0141.6	023.8	249.2	016.5000	0069.1	115.3	36.9
089.0	001.4000	0143.1	023.9	249.0	016.5000	0069.1	115.3	36.9
090.0	001.4000	0144.8	024.0	248.8	016.5000	0069.1	115.4	36.9
091.0	001.4000	0146.7	024.1	248.6	016.5000	0069.1	115.4	36.9
092.0	001.4000	0154.5	024.7	248.3	016.5000	0076.7	115.0	37.2
093.0	001.4000	0162.4	025.3	248.0	016.5000	0076.7	114.7	37.2
094.0	001.4000	0169.5	025.7	247.6	016.5000	0076.7	114.5	37.3
095.0	001.4000	0177.9	026.3	247.3	016.5000	0081.8	114.2	37.5
096.0	001.4000	0189.1	027.0	246.9	016.5000	0081.8	113.8	37.6
097.0	001.4000	0199.6	027.7	246.6	016.5000	0081.8	113.5	37.6
098.0	001.4000	0205.7	028.1	246.2	016.5000	0086.1	113.4	37.8
099.0	001.4000	0211.1	028.4	245.9	016.5000	0086.1	113.4	37.8
100.0	001.4000	0211.3	028.5	245.7	016.5000	0086.1	113.6	37.7
101.0	001.4000	0206.4	028.1	245.6	016.5000	0086.1	114.2	37.6
102.0	001.4000	0195.7	027.4	245.6	016.5000	0086.1	115.0	37.5
103.0	001.4000	0183.8	026.7	245.7	016.5000	0086.1	115.9	37.3
104.0	001.4000	0174.2	026.1	245.7	016.5000	0086.1	116.7	37.2
105.0	001.4000	0166.0	025.5	245.7	016.5000	0086.1	117.4	37.1
106.0	001.4000	0160.8	025.1	245.6	016.5000	0086.1	118.0	37.0
107.0	001.4000	0157.9	024.9	245.5	016.5000	0086.1	118.4	36.9
108.0	001.4000	0158.0	025.0	245.4	016.5000	0088.9	118.7	36.9
109.0	001.4000	0161.2	025.2	245.2	016.5000	0088.9	118.9	36.9
110.0	001.4000	0165.8	025.5	244.9	016.5000	0088.9	118.9	36.9
111.0	001.4000	0171.8	025.9	244.6	016.5000	0088.9	119.0	36.9
112.0	001.4000	0179.9	026.4	244.3	016.5000	0091.7	119.0	37.0
113.0	001.4000	0190.6	027.1	243.9	016.5000	0091.7	118.9	37.0
114.0	001.4000	0202.4	027.9	243.4	016.5000	0094.8	118.8	37.1
115.0	001.4000	0213.1	028.6	243.0	016.5000	0094.8	118.7	37.1
116.0	001.4000	0221.9	029.2	242.6	016.5000	0094.8	118.8	37.1
117.0	001.4000	0228.3	029.6	242.3	016.5000	0097.5	118.9	37.2
118.0	001.4000	0233.0	029.9	242.1	016.5000	0097.5	119.2	37.1
119.0	001.4000	0237.0	030.1	241.8	016.5000	0097.5	119.5	37.1
120.0	001.4000	0242.1	030.5	241.6	016.5000	0097.5	119.8	37.0
121.0	001.4000	0248.0	030.8	241.3	016.5000	0098.5	120.1	37.0
122.0	001.4000	0252.1	031.1	241.1	016.5000	0098.5	120.4	37.0
123.0	001.4000	0252.1	031.1	241.0	016.5000	0098.5	120.9	36.9
124.0	001.4000	0246.9	030.7	241.0	016.5000	0098.5	121.5	36.8
125.0	001.4000	0237.7	030.2	241.1	016.5000	0098.5	122.3	36.6
126.0	001.4000	0225.7	029.4	241.3	016.5000	0098.5	123.1	36.5