

## Channel Study

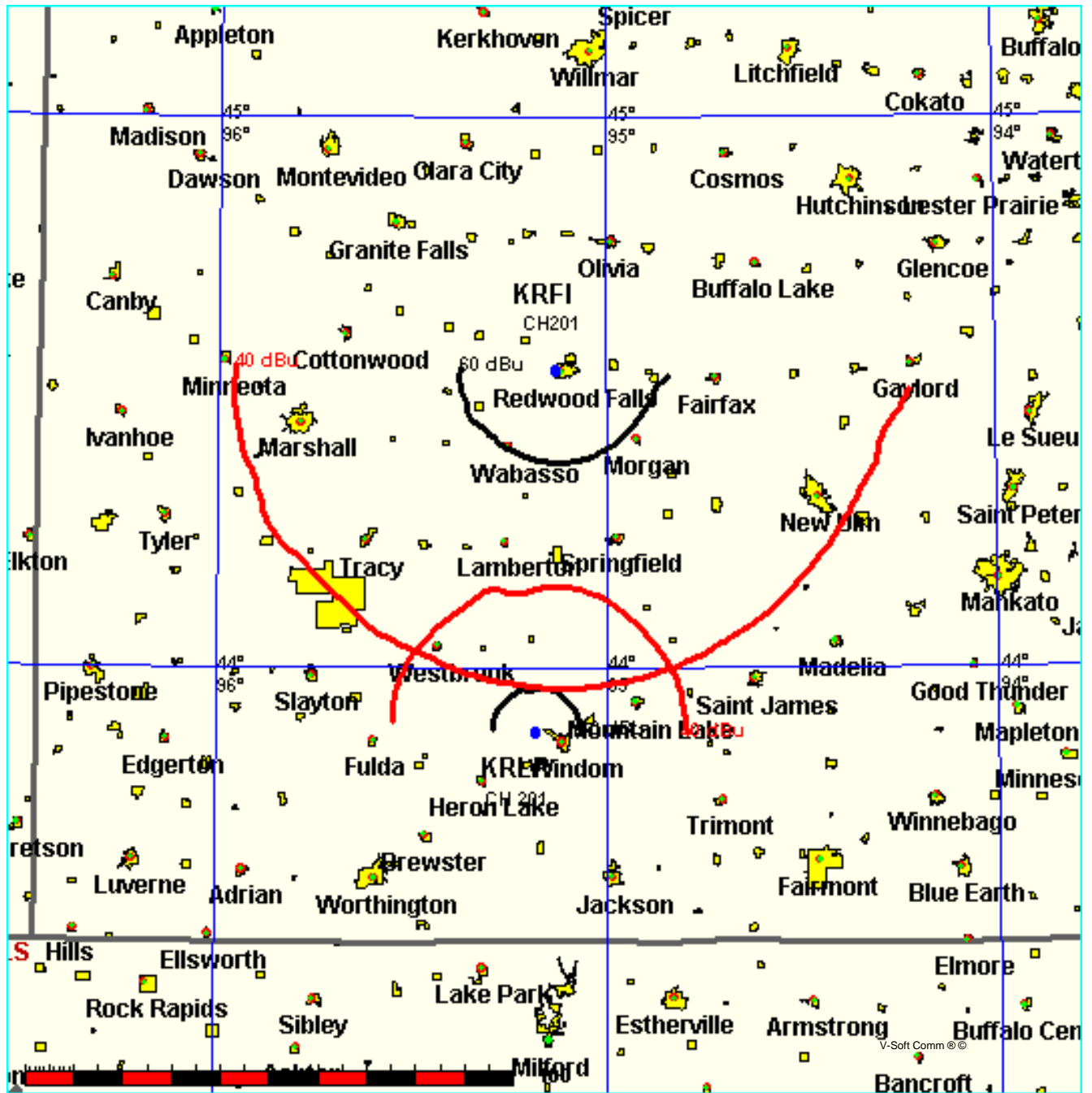
REFERENCE		CH# 201A - 88.1 MHz, Pwr= 0.04 kW, HAAT= 117.7 M, COR= 555 M								DISPLAY DATES	
43 53 03.0 N.		Average Protected F(50-50)= 8.9 km								DATA 09-17-08	
95 10 56.0 W.										SEARCH 09-17-08	
CH CITY	CALL	TYPE	ANT STATE	AZI. <--	DIST FILE #	LAT. LNG.	Pwr(kW) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*
201A Windom	KRLP	CP	CX MN	126.0 306.0	5.68 BMPED20060404ABQ	43 51 15.0 95 07 30.0	0.250 52	28.6 486	8.6 Educational Media Foundati	-32.16*	-34.03*
201A Redwood Falls	KRFI	CP	CX MN	3.1 183.1	73.33 BNPED20071016AHN	44 32 35.2 95 07 57.0	2.100 81	64.4 392	18.9 Minnesota Public Radio	0.20	25.24
201A Worthington	KBOJ	LIC	CX MN	228.3 48.0	47.78 BLED20020711AAA	43 35 53.0 95 37 30.0	0.250 44	34.6 532	10.3 American Family Associatio	4.11	7.05
254C0 Pipestone	KISD	LIC	CN MN	271.7 91.1	61.49 BLH19970506KE	43 53 52.0 95 56 50.0	100.000 309	0.0 828	0.0 Wallace Christensen	24.5R	37.0M
06-2C Austin	KAAL	LI	HN MN	99.2 280.6	165.85 BLCT2236	43 37 42.0 93 09 12.0	100.000 320		105.2 Kaal-tv, Llc	124.6R	41.2M
202A New Ulm	980602MC	CP	CN MN	53.9 234.4	73.32 BPED19980602MC	44 16 11.0 94 26 22.0	0.400 54	14.5 351	10.5 Minn-iowa Christian Broadc	49.75	50.24
201A Storm Lake	NEW	CP	DCX IA	180.3 0.2	133.72 BNPED20071022BND	42 40 50.0 95 11 22.0	1.400 142	72.8 564	24.2 Ron Elmore Ministries Inc	52.39	81.16
201A Sioux Falls	KRSD	LIC	CN SD	252.9 71.8	131.56 BLED19970130KA	43 31 37.0 96 44 18.0	2.000 56	63.9 497	18.8 Minnesota Public Radio	58.66	82.50
203C1 Sioux Center	KDCR	LIC	CN IA	222.1 41.4	118.07 BLED19960125KG	43 05 34.0 96 09 23.0	100.000 151	7.0 576	58.0 Dordt College, Inc.	101.89	59.60
204A Mankato	1209366	APP	CX MN	65.8 246.5	93.22 BNPED20071016AHQ	44 13 20.1 94 07 03.2	3.600 100	2.5 390	26.2 Minnesota Public Radio	81.62	66.54
Terrain database is NGDC 30 SEC Distance + R = FCC Required Spacings in KM, Distance + M = Margin in KM ERP and HAAT on direct-line with reference station. Ant Column: (D= DA Standard, Z= DA 73.215, N= Not DA 73.215, _= Omni), Polarization (C,H,V,E),Beamtilt(Y,N,X) ***affixed to 'IN' or 'OUT' values = site inside protected contour.											

Exhibit 16 - A

FMCommander Single Allocation Study  
09-17-2008

KRLP CH 201 A  
0.04 kW 555 M COR  
Prot. = 60 dBu  
Intef. = 40 dBu

KRFI CH 201 A BNPED20071016AHN  
2.1 kW, 392.4 M COR  
Prot. = 60 dBu  
Intef. = 40 dBu



**KRLP Protected vs. KRFI Interfering**

09-17-2008

NGDC 30 SEC Terrain Data

FMOver Analysis

KRLP  
Channel = 201A  
Max ERP = 0.04 kW  
RCAMSL = 555 M  
N. Lat. 43 53 03.0  
W. Lng. 95 10 56.0  
Protected  
60 dBu

KRFI BNPED20071016AHN  
Channel = 201A  
Max ERP = 2.1 kW  
RCAMSL = 392.4 M  
N. Lat. 44 32 35.2  
W. Lng. 95 07 57.0  
Interfering  
40 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
316.0	000.0400	0111.8	008.7	188.5	002.1000	0070.8	067.7	39.02
317.0	000.0400	0111.7	008.7	188.4	002.1000	0070.8	067.6	39.06
318.0	000.0400	0111.5	008.7	188.3	002.1000	0070.8	067.5	39.09
319.0	000.0400	0111.3	008.7	188.3	002.1000	0070.8	067.4	39.12
320.0	000.0400	0111.2	008.7	188.2	002.1000	0070.8	067.3	39.15
321.0	000.0400	0111.1	008.7	188.1	002.1000	0070.8	067.2	39.18
322.0	000.0400	0111.0	008.7	188.0	002.1000	0070.9	067.0	39.21
323.0	000.0400	0111.0	008.7	187.9	002.1000	0070.9	066.9	39.24
324.0	000.0400	0110.9	008.7	187.8	002.1000	0070.9	066.8	39.26
325.0	000.0400	0110.8	008.6	187.7	002.1000	0070.9	066.7	39.29
326.0	000.0400	0110.6	008.6	187.6	002.1000	0070.9	066.6	39.32
327.0	000.0400	0110.6	008.6	187.5	002.1000	0070.9	066.5	39.35
328.0	000.0400	0110.6	008.6	187.4	002.1000	0070.9	066.4	39.37
329.0	000.0400	0110.9	008.7	187.3	002.1000	0070.9	066.3	39.40
330.0	000.0400	0111.4	008.7	187.2	002.1000	0070.9	066.2	39.43
331.0	000.0400	0112.1	008.7	187.1	002.1000	0070.9	066.1	39.46
332.0	000.0400	0112.6	008.7	187.0	002.1000	0070.9	066.0	39.49
333.0	000.0400	0113.0	008.7	186.9	002.1000	0070.9	065.9	39.52
334.0	000.0400	0113.6	008.8	186.8	002.1000	0071.0	065.8	39.55
335.0	000.0400	0114.5	008.8	186.7	002.1000	0071.0	065.7	39.58
336.0	000.0400	0115.6	008.8	186.6	002.1000	0071.0	065.6	39.61
337.0	000.0400	0116.6	008.9	186.5	002.1000	0071.0	065.5	39.64
338.0	000.0400	0117.4	008.9	186.4	002.1000	0071.0	065.4	39.67
339.0	000.0400	0118.4	008.9	186.3	002.1000	0071.0	065.3	39.70
340.0	000.0400	0119.4	009.0	186.2	002.1000	0071.0	065.2	39.73
341.0	000.0400	0120.2	009.0	186.1	002.1000	0071.0	065.1	39.75
342.0	000.0400	0120.4	009.0	186.0	002.1000	0071.0	065.0	39.77
343.0	000.0400	0119.6	009.0	185.8	002.1000	0071.0	065.0	39.78
344.0	000.0400	0118.3	008.9	185.7	002.1000	0071.0	065.0	39.79
345.0	000.0400	0116.5	008.9	185.5	002.1000	0071.0	065.0	39.79
346.0	000.0400	0114.2	008.8	185.4	002.1000	0071.0	065.0	39.78
347.0	000.0400	0111.6	008.7	185.2	002.1000	0071.1	065.0	39.77
348.0	000.0400	0109.3	008.6	185.1	002.1000	0071.1	065.1	39.76
349.0	000.0400	0107.4	008.5	184.9	002.1000	0071.2	065.1	39.76
350.0	000.0400	0106.2	008.5	184.8	002.1000	0071.2	065.1	39.76
351.0	000.0400	0105.3	008.4	184.7	002.1000	0071.3	065.1	39.76
352.0	000.0400	0104.9	008.4	184.5	002.1000	0071.3	065.1	39.77
353.0	000.0400	0104.7	008.4	184.4	002.1000	0071.4	065.1	39.78
354.0	000.0400	0104.9	008.4	184.3	002.1000	0071.4	065.0	39.79
355.0	000.0400	0105.4	008.4	184.2	002.1000	0071.5	065.0	39.81
356.0	000.0400	0105.7	008.4	184.0	002.1000	0071.5	065.0	39.82
357.0	000.0400	0106.2	008.5	183.9	002.1000	0071.6	064.9	39.83
358.0	000.0400	0106.9	008.5	183.8	002.1000	0071.6	064.9	39.85

359.0	000.0400	0107.5	008.5	183.6	002.1000	0071.7	064.8	39.86
000.0	000.0400	0108.7	008.6	183.5	002.1000	0071.7	064.8	39.88
001.0	000.0400	0109.9	008.6	183.4	002.1000	0071.7	064.7	39.90
002.0	000.0400	0111.2	008.7	183.3	002.1000	0071.8	064.7	39.92
003.0	000.0400	0112.7	008.7	183.1	002.1000	0071.9	064.6	39.94
004.0	000.0400	0113.9	008.8	183.0	002.1000	0071.9	064.6	39.96
005.0	000.0400	0114.9	008.8	182.9	002.1000	0072.0	064.5	39.97
006.0	000.0400	0115.5	008.8	182.7	002.1000	0072.0	064.5	39.98
007.0	000.0400	0115.9	008.8	182.6	002.1000	0072.1	064.5	39.98
008.0	000.0400	0116.3	008.9	182.4	002.1000	0072.1	064.5	39.99
009.0	000.0400	0116.7	008.9	182.3	002.1000	0072.2	064.5	39.99
010.0	000.0400	0117.1	008.9	182.2	002.1000	0072.2	064.5	39.99
011.0	000.0400	0117.4	008.9	182.0	002.1000	0072.2	064.5	39.99
012.0	000.0400	0117.8	008.9	181.9	002.1000	0072.3	064.5	39.99
013.0	000.0400	0118.3	008.9	181.7	002.1000	0072.3	064.5	39.99
014.0	000.0400	0118.9	009.0	181.6	002.1000	0072.4	064.6	39.99
015.0	000.0400	0119.3	009.0	181.5	002.1000	0072.4	064.6	39.99
016.0	000.0400	0119.4	009.0	181.3	002.1000	0072.4	064.6	39.98
017.0	000.0400	0119.4	009.0	181.2	002.1000	0072.5	064.7	39.97
018.0	000.0400	0119.8	009.0	181.1	002.1000	0072.5	064.7	39.96
019.0	000.0400	0120.3	009.0	180.9	002.1000	0072.6	064.7	39.96
020.0	000.0400	0120.4	009.0	180.8	002.1000	0072.6	064.8	39.95
021.0	000.0400	0120.1	009.0	180.7	002.1000	0072.6	064.8	39.93
022.0	000.0400	0119.8	009.0	180.5	002.1000	0072.7	064.9	39.92
023.0	000.0400	0119.8	009.0	180.4	002.1000	0072.7	065.0	39.90
024.0	000.0400	0120.4	009.0	180.3	002.1000	0072.7	065.0	39.89
025.0	000.0400	0121.2	009.0	180.1	002.1000	0072.7	065.0	39.88
026.0	000.0400	0121.8	009.1	180.0	002.1000	0072.7	065.1	39.87
027.0	000.0400	0122.0	009.1	179.9	002.1000	0072.7	065.1	39.85
028.0	000.0400	0122.1	009.1	179.8	002.1000	0072.7	065.2	39.83
029.0	000.0400	0122.1	009.1	179.6	002.1000	0072.7	065.3	39.81
030.0	000.0400	0121.9	009.1	179.5	002.1000	0072.7	065.4	39.79
031.0	000.0400	0121.8	009.1	179.4	002.1000	0072.8	065.5	39.77
032.0	000.0400	0121.6	009.0	179.3	002.1000	0072.8	065.6	39.74
033.0	000.0400	0121.3	009.0	179.2	002.1000	0072.8	065.7	39.72
034.0	000.0400	0120.8	009.0	179.1	002.1000	0072.8	065.8	39.69
035.0	000.0400	0120.3	009.0	179.0	002.1000	0072.8	065.9	39.66
036.0	000.0400	0120.2	009.0	178.9	002.1000	0072.8	066.0	39.63
037.0	000.0400	0120.5	009.0	178.7	002.1000	0072.8	066.0	39.61
038.0	000.0400	0120.8	009.0	178.6	002.1000	0072.8	066.1	39.58
039.0	000.0400	0120.8	009.0	178.5	002.1000	0072.8	066.2	39.56
040.0	000.0400	0120.6	009.0	178.4	002.1000	0072.8	066.3	39.53
041.0	000.0400	0120.3	009.0	178.3	002.1000	0072.8	066.5	39.50
042.0	000.0400	0120.2	009.0	178.2	002.1000	0072.8	066.6	39.47
043.0	000.0400	0120.5	009.0	178.1	002.1000	0072.8	066.7	39.44
044.0	000.0400	0120.8	009.0	178.0	002.1000	0072.8	066.8	39.41
045.0	000.0400	0120.9	009.0	177.9	002.1000	0072.8	066.9	39.38
046.0	000.0400	0120.5	009.0	177.9	002.1000	0072.8	067.0	39.34
047.0	000.0400	0120.0	009.0	177.8	002.1000	0072.8	067.1	39.31
048.0	000.0400	0119.7	009.0	177.7	002.1000	0072.8	067.3	39.27
049.0	000.0400	0119.8	009.0	177.6	002.1000	0072.7	067.4	39.24
050.0	000.0400	0120.2	009.0	177.5	002.1000	0072.7	067.5	39.21
051.0	000.0400	0120.7	009.0	177.4	002.1000	0072.7	067.6	39.18
052.0	000.0400	0120.9	009.0	177.3	002.1000	0072.7	067.7	39.14
053.0	000.0400	0121.0	009.0	177.3	002.1000	0072.7	067.9	39.11
054.0	000.0400	0121.1	009.0	177.2	002.1000	0072.7	068.0	39.07
055.0	000.0400	0121.3	009.0	177.1	002.1000	0072.7	068.1	39.04
056.0	000.0400	0121.7	009.0	177.0	002.1000	0072.7	068.3	39.00

Exhibit 16 - B

FMCommander Single Allocation Study  
09-17-2008

KRLP CH 201 A  
0.04 kW 555 M COR  
Prot. = 60 dBu  
Intef. = 40 dBu

KBOJ CH 201 A BLED20020711AAA  
0.25 kW, 532 M COR  
Prot. = 60 dBu  
Intef. = 40 dBu

