

December 11, 2014

Request for Mattoon Waiver:

Fife Communications LLC respectfully requests a waiver of Section 74.1233(a)(1) of the Commission's Rules to allow the proposed translator site to be located at a distance where its 60 dBu contour will be outside of the overlapping 60 dBu contour of the translator at its current site.

The applicant proposes to move K286CI a total of 38.3 kilometers from a site in Waverly, Iowa to an existing site, owned by the applicant, in Hudson, Iowa. While the 60 dBu contour of the translator at each site does not overlap, the sites, on the same channel, are mutually exclusive as shown in the attached allocations study. Fife Communications meets all of the requirements of the Mattoon waiver. Fife Communications has no history of filing minor modifications; the proposal is not in an LPFM spectrum limited market, and the translator will rebroadcast KCFI-AM.

We attach a contour to contour study showing that the two sites are mutually exclusive along with two channel studies that show the availability of an LPFM channel at the proposed tower site.

Consequently, the criteria for a Mattoon Waiver is met by the applicant who respectfully requests this waiver covering the instant proposal.

On behalf of Fife Communications LCC,

Doug Vernier

A handwritten signature in blue ink, appearing to read "Doug Vernier". The signature is stylized with a large, looping initial "D" and a long horizontal stroke at the end.

Telecommunications Consultant

Doug Vernier, Telecommunications Consultants
401 Main St., Ste 213, Cedar Falls, IA 50613

Allocation Table Showing Mutual Exclusivity
Fife Communication Company, Llc

REFERENCE CH# 286D - 105.1 MHz, Pwr= 0.25 kW, HAAT= 89.2 M, COR= 373 M DISPLAY DATES
42 24 47.0 N. Average Protected F(50-50)= 12.18 km DATA 12-11-14
92 26 15.0 W. Omni-directional SEARCH 12-11-14

CH CITY	CALL	TYPE STATE	ANT -->	AZI -->	DIST FILE #	LAT LNG	PWR (kW) HAAT (M)	INT (km) COR (M)	PRO (km) LICENSEE	*IN* (Overlap	*OUT* in km)
289C0 Waterloo	KOKZ	LIC_CX IA	90.6 270.9	28.84 BLH20130204AAS	42 24 35.0 92 05 10.0	100.000 399	11.7 677	80.7 Nrg License Sub, Llc	4.6	-52.9*	
286C3 Ames	KCYZ	LIC_CN IA	249.9 69.1	106.41 BLH19980203KC	42 04 38.0 93 38 54.0	25.000 100	113.2 403	38.6 Citicasters Licenses, Inc.	-18.6*	26.9	
286D Waverly	K286CI	LIC_C IA	0.4 180.4	38.29 BLFT20141107AAE	42 45 27.0 92 26 03.0	0.050 386	30.2 386	9.0 Fife Communication Company	-5.0	-15.8*	
283C1 Cedar Rapids	KDAT	LIC_CN IA	120.9 301.4	71.34 BLH5113	42 04 51.0 91 41 45.0	100.000 168	7.7 422	61.5 Townsquare Media Cedar Rap	51.4	8.8	
285A Hampton	KLMJ	CP_CX IA	307.3 126.8	77.06 BPH20130104AAK	42 49 52.0 93 11 20.0	4.700 113	45.8 456	30.0 Cd Broadcasting, Inc.	19.9	30.8	
285A Hampton	KLMJ	LIC_CX IA	307.3 126.8	77.06 BLH20030611AAD	42 49 52.0 93 11 20.0	6.000 93	44.6 431	28.9 Cd Broadcasting, Inc.	21.1	31.9	
286D Iowa City	K286BY	CP_C IA	129.2 309.7	80.47 BNPFT20130816ADS	41 57 11.0 91 41 00.0	0.250 113	46.7 359	13.7 Edgewater Broadcasting, In	21.8	25.7	
285C2 Oskaloosa	KBOE-FM	LIC_CN IA	188.1 8.0	122.64 BLH19910919KB	41 19 15.0 92 38 44.0	50.000 150	76.4 391	50.6 Jomast Corporation	35.2	56.2	
287C2 Stewartville	KYBA	LIC_CN MN	351.5 171.3	141.68 BLH19930205KD	43 40 23.0 92 41 54.0	50.000 150	78.1 561	52.2 Townsquare Media Rochester	50.6	70.1	

Terrain database is FCC NGDC 30 Sec , R= 73.215 qualifying spacings or FCC minimum Spacings in KM, M= Margin in KM
Contour distances are on direct line to and from reference station. Reference zone= West Zone, Co to 3rd adjacent.
All separation margins (if shown) include rounding. Call signs with strikeout need not be protected.
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 restricted contour.
Reference station has protected zone issue: AM tower

Map Showing Mutual Exclusivity Between Sites

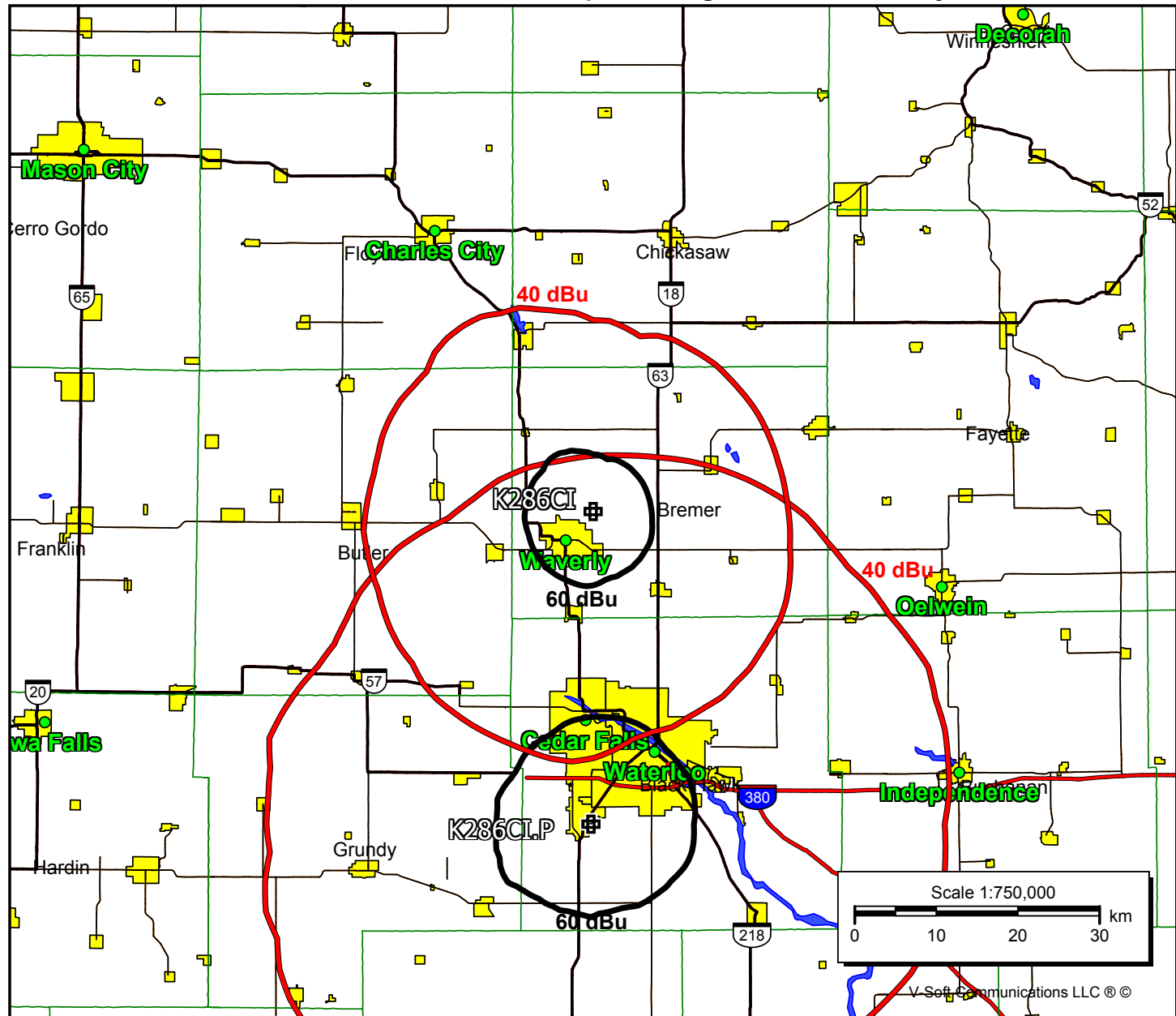
K286CI

BLFT20141107AAE
Latitude: 42-45-27 N
Longitude: 092-26-03 W
ERP: 0.05 kW
Channel: 286
Frequency: 105.1 MHz
AMSL Height: 386.0 m
Elevation: 308.0 m
Horiz. Pattern: Omni
Vert. Pattern: No

K286CI.P

Latitude: 42-24-47 N
Longitude: 092-26-15 W
ERP: 0.25 kW
Channel: 286
Frequency: 105.1 MHz
AMSL Height: 373.0 m
Elevation: 270.0 m
Horiz. Pattern: Omni
Vert. Pattern: No

Doug Vernier
401 Main Street, Suite 213
Cedar Falls, Iowa 50613
Telecommunication Consultants



12-11-2014

Terrain Data: FCC NGDC 30 Sec

FMOver Analysis

K286CI.P

K286CI BLFT20141107AAE

Channel = 286D

Max ERP = 0.25 kW

RCAMSL = 373 M

N. Lat. 42 24 47.0

W. Lng. 92 26 15.0

Protected

60 dBu

Channel = 286D

Max ERP = 0.05 kW

RCAMSL = 386 M

N. Lat. 42 45 27.0

W. Lng. 92 26 03.0

Interfering

40 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
300.0	000.2500	0076.0	011.3	197.1	000.0500	0108.2	034.2	38.05	
301.0	000.2500	0075.6	011.3	197.0	000.0500	0108.3	034.0	38.14	
302.0	000.2500	0075.5	011.3	196.9	000.0500	0108.3	033.8	38.23	
303.0	000.2500	0075.4	011.3	196.8	000.0500	0108.3	033.6	38.32	
304.0	000.2500	0075.2	011.3	196.7	000.0500	0108.3	033.4	38.41	
305.0	000.2500	0075.2	011.2	196.6	000.0500	0108.3	033.2	38.50	
306.0	000.2500	0075.5	011.3	196.5	000.0500	0108.4	033.0	38.59	
307.0	000.2500	0076.1	011.3	196.5	000.0500	0108.4	032.8	38.69	
308.0	000.2500	0076.7	011.4	196.4	000.0500	0108.4	032.6	38.79	
309.0	000.2500	0077.2	011.4	196.3	000.0500	0108.4	032.4	38.88	
310.0	000.2500	0077.8	011.4	196.3	000.0500	0108.4	032.2	38.98	
311.0	000.2500	0078.4	011.5	196.2	000.0500	0108.5	032.0	39.08	
312.0	000.2500	0079.3	011.5	196.1	000.0500	0108.5	031.8	39.18	
313.0	000.2500	0080.3	011.6	196.1	000.0500	0108.5	031.6	39.29	
314.0	000.2500	0081.1	011.6	196.0	000.0500	0108.5	031.4	39.40	
315.0	000.2500	0081.8	011.7	195.9	000.0500	0108.6	031.2	39.51	
316.0	000.2500	0082.4	011.7	195.8	000.0500	0108.6	031.0	39.62	
317.0	000.2500	0083.0	011.8	195.6	000.0500	0108.7	030.8	39.73	
318.0	000.2500	0083.5	011.8	195.5	000.0500	0108.8	030.6	39.84	
319.0	000.2500	0083.8	011.8	195.3	000.0500	0108.9	030.4	39.95	
320.0	000.2500	0084.0	011.8	195.1	000.0500	0109.0	030.3	40.05*	0.10
321.0	000.2500	0084.2	011.9	194.9	000.0500	0109.1	030.1	40.16*	0.29
322.0	000.2500	0084.6	011.9	194.7	000.0500	0109.3	029.9	40.28*	0.50
323.0	000.2500	0085.2	011.9	194.5	000.0500	0109.4	029.7	40.39*	0.71
324.0	000.2500	0086.0	012.0	194.3	000.0500	0109.6	029.5	40.52*	0.92
325.0	000.2500	0086.5	012.0	194.1	000.0500	0109.7	029.4	40.64*	1.12
326.0	000.2500	0086.6	012.0	193.8	000.0500	0110.0	029.2	40.75*	1.32
327.0	000.2500	0086.5	012.0	193.6	000.0500	0110.2	029.0	40.86*	1.50
328.0	000.2500	0086.6	012.0	193.3	000.0500	0110.4	028.9	40.97*	1.69
329.0	000.2500	0086.8	012.0	193.0	000.0500	0110.6	028.7	41.08*	1.88
330.0	000.2500	0086.9	012.0	192.7	000.0500	0110.8	028.6	41.18*	2.05
331.0	000.2500	0086.8	012.0	192.4	000.0500	0111.0	028.4	41.28*	2.21
332.0	000.2500	0086.8	012.0	192.1	000.0500	0111.1	028.3	41.37*	2.37
333.0	000.2500	0086.8	012.0	191.7	000.0500	0111.1	028.2	41.46*	2.51
334.0	000.2500	0086.7	012.0	191.4	000.0500	0111.1	028.1	41.53*	2.63
335.0	000.2500	0086.9	012.0	191.1	000.0500	0111.1	027.9	41.61*	2.75

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	
336.0	000.2500	0087.5	012.1	190.8	000.0500	0111.0	027.8	41.70*	2.90
337.0	000.2500	0088.5	012.1	190.5	000.0500	0110.9	027.6	41.81*	3.07
338.0	000.2500	0089.6	012.2	190.2	000.0500	0110.9	027.4	41.91*	3.23
339.0	000.2500	0090.4	012.3	189.9	000.0500	0110.8	027.3	42.01*	3.38
340.0	000.2500	0091.1	012.3	189.5	000.0500	0110.8	027.1	42.11*	3.53
341.0	000.2500	0091.7	012.3	189.2	000.0500	0110.9	027.0	42.20*	3.67
342.0	000.2500	0092.6	012.4	188.8	000.0500	0110.9	026.8	42.30*	3.82
343.0	000.2500	0093.7	012.5	188.4	000.0500	0111.0	026.7	42.41*	3.99
344.0	000.2500	0095.3	012.6	188.1	000.0500	0111.0	026.5	42.54*	4.19
345.0	000.2500	0097.0	012.7	187.8	000.0500	0111.1	026.3	42.67*	4.38
346.0	000.2500	0098.2	012.7	187.4	000.0500	0111.2	026.1	42.78*	4.55
347.0	000.2500	0098.7	012.8	186.9	000.0500	0111.3	026.0	42.86*	4.67
348.0	000.2500	0099.1	012.8	186.5	000.0500	0111.3	025.9	42.93*	4.78
349.0	000.2500	0099.9	012.9	186.1	000.0500	0111.4	025.8	43.01*	4.90
350.0	000.2500	0100.5	012.9	185.6	000.0500	0111.3	025.7	43.08*	4.99
351.0	000.2500	0101.2	012.9	185.1	000.0500	0111.2	025.6	43.14*	5.08
352.0	000.2500	0101.6	013.0	184.7	000.0500	0110.9	025.5	43.16*	5.10
353.0	000.2500	0101.8	013.0	184.2	000.0500	0110.3	025.5	43.16*	5.08
354.0	000.2500	0101.9	013.0	183.7	000.0500	0109.8	025.4	43.14*	5.04
355.0	000.2500	0102.0	013.0	183.2	000.0500	0109.2	025.4	43.12*	5.00
356.0	000.2500	0102.4	013.0	182.7	000.0500	0108.7	025.3	43.12*	4.98
357.0	000.2500	0102.8	013.0	182.2	000.0500	0108.3	025.3	43.12*	4.97
358.0	000.2500	0103.6	013.1	181.7	000.0500	0108.1	025.2	43.15*	5.01
359.0	000.2500	0104.2	013.1	181.1	000.0500	0108.0	025.2	43.18*	5.04
000.0	000.2500	0104.3	013.1	180.6	000.0500	0107.8	025.2	43.17*	5.03
001.0	000.2500	0104.5	013.1	180.1	000.0500	0107.7	025.2	43.16*	5.02
002.0	000.2500	0104.8	013.2	179.6	000.0500	0107.4	025.1	43.15*	4.99
003.0	000.2500	0105.3	013.2	179.0	000.0500	0106.9	025.1	43.12*	4.93
004.0	000.2500	0105.5	013.2	178.5	000.0500	0106.5	025.1	43.08*	4.86
005.0	000.2500	0105.6	013.2	178.0	000.0500	0106.1	025.1	43.03*	4.78
006.0	000.2500	0105.4	013.2	177.5	000.0500	0105.7	025.2	42.96*	4.67
007.0	000.2500	0105.3	013.2	177.0	000.0500	0105.1	025.2	42.89*	4.55
008.0	000.2500	0105.7	013.2	176.4	000.0500	0104.2	025.3	42.80*	4.40
009.0	000.2500	0106.4	013.3	175.9	000.0500	0103.4	025.3	42.71*	4.25
010.0	000.2500	0107.2	013.3	175.4	000.0500	0102.5	025.3	42.63*	4.11
011.0	000.2500	0108.0	013.4	174.8	000.0500	0101.5	025.3	42.53*	3.94
012.0	000.2500	0108.3	013.4	174.3	000.0500	0100.4	025.3	42.39*	3.71
013.0	000.2500	0108.6	013.4	173.8	000.0500	0099.4	025.4	42.26*	3.50
014.0	000.2500	0108.9	013.4	173.3	000.0500	0098.5	025.5	42.13*	3.30
015.0	000.2500	0109.5	013.4	172.8	000.0500	0097.7	025.5	42.02*	3.12
016.0	000.2500	0110.1	013.5	172.3	000.0500	0097.1	025.6	41.92*	2.96
017.0	000.2500	0110.7	013.5	171.7	000.0500	0096.6	025.6	41.82*	2.81
018.0	000.2500	0110.8	013.5	171.3	000.0500	0096.2	025.7	41.72*	2.65
019.0	000.2500	0110.9	013.5	170.8	000.0500	0095.8	025.8	41.61*	2.49
020.0	000.2500	0110.8	013.5	170.3	000.0500	0095.5	025.9	41.50*	2.33
021.0	000.2500	0110.9	013.5	169.9	000.0500	0095.2	026.1	41.40*	2.17
022.0	000.2500	0111.1	013.5	169.4	000.0500	0095.0	026.2	41.29*	2.01
023.0	000.2500	0111.2	013.6	169.0	000.0500	0094.8	026.3	41.19*	1.86
024.0	000.2500	0111.3	013.6	168.6	000.0500	0094.7	026.4	41.09*	1.71
025.0	000.2500	0111.2	013.6	168.2	000.0500	0094.6	026.6	40.99*	1.55
026.0	000.2500	0111.1	013.5	167.8	000.0500	0094.5	026.7	40.88*	1.38

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	
027.0	000.2500	0110.9	013.5	167.4	000.0500	0094.4	026.9	40.76*	1.21
028.0	000.2500	0110.6	013.5	167.0	000.0500	0094.2	027.1	40.65*	1.02
029.0	000.2500	0110.6	013.5	166.7	000.0500	0094.1	027.2	40.53*	0.84
030.0	000.2500	0110.7	013.5	166.3	000.0500	0093.9	027.4	40.41*	0.65
031.0	000.2500	0110.9	013.5	165.9	000.0500	0093.7	027.5	40.29*	0.47
032.0	000.2500	0110.8	013.5	165.6	000.0500	0093.5	027.7	40.16*	0.26
033.0	000.2500	0110.3	013.5	165.3	000.0500	0093.4	027.9	40.02*	0.04
034.0	000.2500	0109.6	013.5	165.0	000.0500	0093.2	028.1	39.88	
035.0	000.2500	0109.0	013.4	164.8	000.0500	0093.1	028.3	39.75	
036.0	000.2500	0108.4	013.4	164.5	000.0500	0092.9	028.5	39.61	
037.0	000.2500	0107.6	013.3	164.3	000.0500	0092.8	028.7	39.47	
038.0	000.2500	0106.5	013.3	164.2	000.0500	0092.8	028.9	39.33	
039.0	000.2500	0105.4	013.2	164.0	000.0500	0092.7	029.2	39.19	
040.0	000.2500	0104.2	013.1	163.9	000.0500	0092.7	029.4	39.05	
041.0	000.2500	0103.2	013.1	163.7	000.0500	0092.6	029.6	38.92	
042.0	000.2500	0102.3	013.0	163.6	000.0500	0092.6	029.8	38.79	
043.0	000.2500	0101.7	013.0	163.4	000.0500	0092.6	030.1	38.67	
044.0	000.2500	0101.3	012.9	163.3	000.0500	0092.6	030.3	38.56	
045.0	000.2500	0101.3	012.9	163.1	000.0500	0092.6	030.5	38.45	
046.0	000.2500	0101.6	013.0	162.8	000.0500	0092.7	030.7	38.35	
047.0	000.2500	0102.0	013.0	162.6	000.0500	0092.7	030.9	38.26	
048.0	000.2500	0102.3	013.0	162.4	000.0500	0092.9	031.0	38.17	
049.0	000.2500	0102.5	013.0	162.2	000.0500	0093.0	031.3	38.08	
050.0	000.2500	0102.6	013.0	162.0	000.0500	0093.1	031.5	37.98	
051.0	000.2500	0102.7	013.0	161.9	000.0500	0093.2	031.7	37.89	
052.0	000.2500	0102.7	013.0	161.7	000.0500	0093.3	031.9	37.79	
053.0	000.2500	0102.6	013.0	161.6	000.0500	0093.4	032.1	37.70	
054.0	000.2500	0102.2	013.0	161.5	000.0500	0093.4	032.3	37.60	
055.0	000.2500	0101.8	013.0	161.4	000.0500	0093.5	032.5	37.50	
056.0	000.2500	0101.6	013.0	161.4	000.0500	0093.6	032.8	37.40	
057.0	000.2500	0101.8	013.0	161.2	000.0500	0093.6	033.0	37.30	
058.0	000.2500	0102.5	013.0	161.1	000.0500	0093.8	033.2	37.22	
059.0	000.2500	0103.3	013.1	160.9	000.0500	0093.9	033.4	37.13	

12-11-2014

Terrain Data: FCC NGDC 30 Sec

FMOver Analysis

K286CI BLFT20141107AAE

K286CI.P

Channel = 286D

Max ERP = 0.05 kW

RCAMSL = 386 M

N. Lat. 42 45 27.0

W. Lng. 92 26 03.0

Protected

60 dBu

Channel = 286D

Max ERP = 0.25 kW

RCAMSL = 373 M

N. Lat. 42 24 47.0

W. Lng. 92 26 15.0

Interfering

40 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
120.0	000.0500	0084.0	007.9	011.7	000.2500	0108.2	035.1	44.61*	10.73
121.0	000.0500	0084.1	007.9	011.6	000.2500	0108.2	034.9	44.67*	10.86
122.0	000.0500	0084.1	007.9	011.6	000.2500	0108.2	034.8	44.72*	10.98
123.0	000.0500	0084.2	007.9	011.5	000.2500	0108.2	034.7	44.78*	11.11
124.0	000.0500	0084.3	007.9	011.4	000.2500	0108.1	034.6	44.84*	11.24
125.0	000.0500	0084.5	007.9	011.3	000.2500	0108.1	034.4	44.90*	11.36
126.0	000.0500	0084.8	007.9	011.3	000.2500	0108.1	034.3	44.96*	11.49
127.0	000.0500	0085.1	008.0	011.2	000.2500	0108.1	034.2	45.02*	11.61
128.0	000.0500	0085.3	008.0	011.1	000.2500	0108.0	034.0	45.08*	11.74
129.0	000.0500	0085.6	008.0	011.0	000.2500	0108.0	033.9	45.14*	11.86
130.0	000.0500	0085.9	008.0	010.9	000.2500	0107.9	033.8	45.19*	11.98
131.0	000.0500	0086.2	008.0	010.8	000.2500	0107.9	033.6	45.25*	12.10
132.0	000.0500	0086.4	008.0	010.7	000.2500	0107.8	033.5	45.31*	12.21
133.0	000.0500	0086.9	008.0	010.6	000.2500	0107.7	033.4	45.36*	12.33
134.0	000.0500	0087.5	008.1	010.5	000.2500	0107.7	033.2	45.43*	12.46
135.0	000.0500	0088.2	008.1	010.5	000.2500	0107.6	033.1	45.49*	12.58
136.0	000.0500	0088.6	008.1	010.3	000.2500	0107.5	033.0	45.54*	12.70
137.0	000.0500	0088.7	008.1	010.2	000.2500	0107.4	032.9	45.59*	12.79
138.0	000.0500	0088.7	008.1	010.1	000.2500	0107.3	032.8	45.63*	12.88
139.0	000.0500	0088.8	008.1	009.9	000.2500	0107.2	032.6	45.67*	12.97
140.0	000.0500	0089.0	008.2	009.8	000.2500	0107.0	032.5	45.72*	13.07
141.0	000.0500	0089.6	008.2	009.6	000.2500	0106.9	032.4	45.77*	13.17
142.0	000.0500	0090.4	008.2	009.5	000.2500	0106.8	032.3	45.83*	13.29
143.0	000.0500	0091.2	008.3	009.4	000.2500	0106.7	032.1	45.88*	13.40
144.0	000.0500	0091.5	008.3	009.2	000.2500	0106.6	032.0	45.93*	13.49
145.0	000.0500	0091.4	008.3	009.1	000.2500	0106.4	031.9	45.97*	13.56
146.0	000.0500	0091.2	008.3	008.8	000.2500	0106.3	031.8	46.00*	13.62
147.0	000.0500	0090.9	008.3	008.6	000.2500	0106.1	031.7	46.03*	13.68
148.0	000.0500	0090.8	008.2	008.4	000.2500	0106.0	031.6	46.06*	13.75
149.0	000.0500	0090.9	008.3	008.2	000.2500	0105.8	031.5	46.10*	13.82
150.0	000.0500	0091.2	008.3	008.1	000.2500	0105.7	031.4	46.14*	13.90
151.0	000.0500	0091.2	008.3	007.8	000.2500	0105.6	031.4	46.18*	13.96
152.0	000.0500	0091.2	008.3	007.6	000.2500	0105.5	031.3	46.21*	14.03

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	
153.0	000.0500	0091.2	008.3	007.4	000.2500	0105.4	031.2	46.25*	14.10
154.0	000.0500	0091.5	008.3	007.2	000.2500	0105.4	031.1	46.30*	14.19
155.0	000.0500	0091.9	008.3	007.0	000.2500	0105.4	031.0	46.34*	14.27
156.0	000.0500	0092.4	008.3	006.8	000.2500	0105.3	030.9	46.39*	14.36
157.0	000.0500	0093.0	008.4	006.6	000.2500	0105.3	030.8	46.44*	14.46
158.0	000.0500	0093.7	008.4	006.4	000.2500	0105.3	030.7	46.49*	14.56
159.0	000.0500	0094.2	008.4	006.2	000.2500	0105.3	030.6	46.54*	14.65
160.0	000.0500	0094.3	008.4	005.9	000.2500	0105.4	030.5	46.59*	14.73
161.0	000.0500	0093.8	008.4	005.7	000.2500	0105.5	030.5	46.62*	14.79
162.0	000.0500	0093.1	008.4	005.4	000.2500	0105.5	030.5	46.64*	14.83
163.0	000.0500	0092.6	008.3	005.1	000.2500	0105.6	030.4	46.66*	14.88
164.0	000.0500	0092.7	008.3	004.9	000.2500	0105.6	030.4	46.70*	14.94
165.0	000.0500	0093.2	008.4	004.6	000.2500	0105.6	030.3	46.74*	15.01
166.0	000.0500	0093.8	008.4	004.4	000.2500	0105.6	030.2	46.77*	15.08
167.0	000.0500	0094.2	008.4	004.1	000.2500	0105.5	030.2	46.80*	15.13
168.0	000.0500	0094.5	008.4	003.9	000.2500	0105.4	030.1	46.83*	15.17
169.0	000.0500	0094.8	008.4	003.6	000.2500	0105.4	030.1	46.85*	15.21
170.0	000.0500	0095.3	008.5	003.3	000.2500	0105.3	030.0	46.88*	15.26
171.0	000.0500	0096.0	008.5	003.1	000.2500	0105.3	029.9	46.91*	15.32
172.0	000.0500	0096.8	008.5	002.8	000.2500	0105.3	029.9	46.95*	15.38
173.0	000.0500	0098.1	008.6	002.5	000.2500	0105.2	029.8	46.99*	15.45
174.0	000.0500	0099.7	008.7	002.3	000.2500	0105.0	029.7	47.03*	15.52
175.0	000.0500	0101.8	008.8	002.0	000.2500	0104.9	029.6	47.08*	15.60
176.0	000.0500	0103.5	008.8	001.7	000.2500	0104.6	029.5	47.12*	15.65
177.0	000.0500	0105.2	008.9	001.4	000.2500	0104.5	029.4	47.16*	15.72
178.0	000.0500	0106.1	008.9	001.1	000.2500	0104.5	029.4	47.18*	15.76
179.0	000.0500	0106.9	009.0	000.8	000.2500	0104.4	029.3	47.20*	15.79
180.0	000.0500	0107.6	009.0	000.5	000.2500	0104.4	029.3	47.22*	15.82
181.0	000.0500	0107.9	009.0	000.2	000.2500	0104.4	029.3	47.22*	15.82
182.0	000.0500	0108.2	009.0	359.9	000.2500	0104.3	029.3	47.22*	15.82
183.0	000.0500	0109.0	009.1	359.6	000.2500	0104.3	029.2	47.23*	15.84
184.0	000.0500	0110.1	009.1	359.3	000.2500	0104.2	029.2	47.25*	15.87
185.0	000.0500	0111.2	009.2	359.0	000.2500	0104.2	029.2	47.26*	15.88
186.0	000.0500	0111.4	009.2	358.7	000.2500	0104.2	029.2	47.25*	15.86
187.0	000.0500	0111.3	009.2	358.3	000.2500	0104.0	029.2	47.22*	15.81
188.0	000.0500	0111.1	009.2	358.0	000.2500	0103.7	029.2	47.17*	15.71
189.0	000.0500	0110.9	009.1	357.7	000.2500	0103.3	029.3	47.12*	15.61
190.0	000.0500	0110.8	009.1	357.4	000.2500	0103.0	029.3	47.08*	15.52
191.0	000.0500	0111.0	009.2	357.1	000.2500	0102.9	029.3	47.04*	15.46
192.0	000.0500	0111.1	009.2	356.8	000.2500	0102.7	029.4	47.01*	15.40
193.0	000.0500	0110.6	009.1	356.5	000.2500	0102.6	029.4	46.97*	15.31
194.0	000.0500	0109.8	009.1	356.3	000.2500	0102.5	029.5	46.91*	15.22
195.0	000.0500	0109.1	009.1	356.0	000.2500	0102.4	029.6	46.86*	15.11
196.0	000.0500	0108.5	009.1	355.7	000.2500	0102.3	029.7	46.80*	15.01
197.0	000.0500	0108.3	009.0	355.4	000.2500	0102.1	029.7	46.75*	14.91
198.0	000.0500	0108.1	009.0	355.2	000.2500	0102.0	029.8	46.70*	14.83
199.0	000.0500	0107.8	009.0	354.9	000.2500	0102.0	029.9	46.65*	14.74
200.0	000.0500	0107.6	009.0	354.6	000.2500	0101.9	030.0	46.61*	14.66
201.0	000.0500	0107.7	009.0	354.3	000.2500	0101.9	030.0	46.57*	14.60
202.0	000.0500	0107.6	009.0	354.1	000.2500	0101.9	030.1	46.53*	14.52
203.0	000.0500	0107.2	009.0	353.8	000.2500	0101.9	030.2	46.48*	14.43

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	
204.0	000.0500	0106.9	009.0	353.6	000.2500	0101.9	030.3	46.43*	14.34
205.0	000.0500	0107.1	009.0	353.3	000.2500	0101.9	030.4	46.39*	14.26
206.0	000.0500	0107.5	009.0	353.1	000.2500	0101.8	030.4	46.35*	14.18
207.0	000.0500	0107.8	009.0	352.8	000.2500	0101.8	030.5	46.30*	14.10
208.0	000.0500	0107.7	009.0	352.6	000.2500	0101.8	030.6	46.25*	13.99
209.0	000.0500	0107.2	009.0	352.3	000.2500	0101.7	030.7	46.18*	13.87
210.0	000.0500	0106.8	009.0	352.1	000.2500	0101.6	030.8	46.11*	13.74
211.0	000.0500	0106.8	009.0	351.9	000.2500	0101.5	030.9	46.06*	13.63
212.0	000.0500	0106.8	009.0	351.7	000.2500	0101.4	031.0	46.00*	13.52
213.0	000.0500	0106.9	009.0	351.5	000.2500	0101.4	031.1	45.94*	13.40
214.0	000.0500	0106.7	009.0	351.3	000.2500	0101.3	031.2	45.87*	13.27
215.0	000.0500	0106.0	008.9	351.1	000.2500	0101.2	031.3	45.80*	13.13
216.0	000.0500	0105.2	008.9	350.9	000.2500	0101.1	031.5	45.72*	12.98
217.0	000.0500	0104.8	008.9	350.7	000.2500	0101.1	031.6	45.66*	12.84
218.0	000.0500	0105.0	008.9	350.5	000.2500	0100.9	031.7	45.59*	12.71
219.0	000.0500	0105.5	008.9	350.3	000.2500	0100.8	031.8	45.53*	12.58
220.0	000.0500	0105.8	008.9	350.1	000.2500	0100.6	031.9	45.46*	12.44
221.0	000.0500	0105.8	008.9	350.0	000.2500	0100.5	032.0	45.38*	12.29
222.0	000.0500	0105.3	008.9	349.8	000.2500	0100.4	032.2	45.31*	12.13
223.0	000.0500	0104.7	008.9	349.7	000.2500	0100.3	032.3	45.23*	11.97
224.0	000.0500	0104.2	008.9	349.5	000.2500	0100.2	032.5	45.16*	11.82
225.0	000.0500	0103.8	008.9	349.4	000.2500	0100.1	032.6	45.09*	11.67
226.0	000.0500	0103.4	008.8	349.3	000.2500	0100.1	032.7	45.02*	11.52
227.0	000.0500	0102.8	008.8	349.2	000.2500	0100.0	032.9	44.94*	11.36
228.0	000.0500	0101.8	008.8	349.1	000.2500	0099.9	033.0	44.87*	11.20
229.0	000.0500	0100.7	008.7	349.0	000.2500	0099.9	033.2	44.79*	11.03
230.0	000.0500	0099.5	008.7	349.0	000.2500	0099.9	033.3	44.71*	10.87
231.0	000.0500	0098.7	008.6	348.9	000.2500	0099.9	033.5	44.64*	10.71
232.0	000.0500	0098.4	008.6	348.8	000.2500	0099.8	033.6	44.57*	10.56
233.0	000.0500	0098.6	008.6	348.7	000.2500	0099.7	033.8	44.50*	10.41
234.0	000.0500	0099.0	008.6	348.6	000.2500	0099.6	033.9	44.43*	10.26
235.0	000.0500	0099.5	008.7	348.4	000.2500	0099.5	034.0	44.36*	10.11
236.0	000.0500	0099.7	008.7	348.3	000.2500	0099.4	034.2	44.29*	9.96
237.0	000.0500	0099.7	008.7	348.2	000.2500	0099.3	034.3	44.21*	9.80
238.0	000.0500	0099.4	008.7	348.2	000.2500	0099.3	034.4	44.14*	9.64
239.0	000.0500	0098.9	008.6	348.1	000.2500	0099.2	034.6	44.07*	9.49

Doug Vernier, Telecommunications Consultants
401 Main St., Ste 213, Cedar Falls, IA 50613
LPFM channel at the Proposed Translator Site
Fife Communication Company, Llc

REFERENCE
42 24 47.0 N. CLASS = L1
92 26 15.0 W. Current Spacings to 2nd Adj.
----- Channel 277 - 103.3 MHz -----

DISPLAY DATES
DATA 12-02-14
SEARCH 12-02-14

Call	Channel	Location	Azi	Dist	FCC	Margin
KZIA	LIC 275C1	Cedar Rapids	IA 122.7	72.94	72.5	0.44
KAZR	LIC 277C1	Pella	IA 216.5	120.60	110.5	10.1
K279AN	LIC 279D	Marshalltown	IA 226.6	55.12	13.5	41.6
KNEI-FM	LIC 278C2	Waukon	IA 38.5	127.77	79.5	48.3

Reference station has protected zone issue: AM tower
All separation margins include rounding

Doug Vernier, Telecommunications Consultants
401 Main St., Ste 213, Cedar Falls, IA 50613
LPFM channel at the Proposed Translator Site
Fife Communication Company, Llc

REFERENCE		DISPLAY DATES
42 24 47.0 N.	CLASS = L1	DATA 12-02-14
92 26 15.0 W.	Current Spacings to 2nd Adj.	SEARCH 12-02-14
----- Channel 278 - 103.5 MHz -----		

Call	Channel	Location	Azi	Dist	FCC	Margin
DKCOO	LIC 280A	Dunkerton	IA 28.8	37.27	28.5	8.8
KAZR	LIC 277C1	Pella	IA 216.5	120.60	99.5	21.1
KLKK	LIC-N 279C3	Clear Lake	IA 322.2	100.04	66.5	33.5
K279AN	LIC 279D	Marshalltown	IA 226.6	55.12	20.5	34.6
KNEI-FM	LIC 278C2	Waukon	IA 38.5	127.77	90.5	37.3

Reference station has protected zone issue: AM tower
All separation margins include rounding