

Midwest Wireless Iowa L.L.C. d/b/a Alltel
Engineering Statement

I. Introduction

This Engineering Statement has been prepared as a Phase II unserved area application by Midwest Wireless Iowa L.L.C. d/b/a Alltel, licensee of KNKN364 (Market CMA426), the Block B cellular system in the Iowa 15 - Dickinson market.

II. Proposed Changes

It is proposed to ***add/delete/modify*** the following sites. The technical parameters of the proposed changes are attached as FCC Form 601 Schedule F Page 3. The attached map depicts the proposed 32 dBu contour.

Technical Parameters:

Spencer (MWW)	43° 13' 40.98"N	95° 7' 56.99"W	1450' AMSL
Antenna Information	(Antenna 1, Allgon 7834_00_):	(Antenna 2, Allgon 7838_00_):	(Antenna 3, Antel LPD-4019):
Maximum Antenna Gain:	11.9	13.9	19.0
Beam Width:	90.00	90.00	42.67
Antenna Centerline:	250.0599976	250.0599976	250.0599976
Antenna Tip:	252	252	254
MAX ERP W:	127.93	202.75	663.68
Antenna Polarization:	Single	Single	Single
Azimuth:	310	70	230

Spirit Lake (MWW)	43° 24' 33.09"N	95° 6' 12.3"W	1477' AMSL
Antenna Information	(Antenna 1, Allgon 7272):	(Antenna 2, Allgon 7834_00_):	(Antenna 3, Allgon 7272):
Maximum Antenna Gain:	14.5	11.9	14.5
Beam Width:	64.94	90.00	64.94
Antenna Centerline:	300.0799866	300.0799866	300.0799866
Antenna Tip:	303	302	303
MAX ERP W:	219.26	119.11	219.26
Antenna Polarization:	Single	Single	Single
Azimuth:	0	120	240

Storm Lake (MWW)	42° 42' 9"N	95° 4' 38.97"W	1257' AMSL
Antenna Information	(Antenna 1, Allgon 7272):	(Antenna 2, Allgon 7272):	(Antenna 3, Allgon 7272):
Maximum Antenna Gain:	14.5	14.5	14.5
Beam Width:	64.94	64.94	64.94
Antenna Centerline:	250.0599976	250.0599976	250.0599976
Antenna Tip:	253	253	253
MAX ERP W:	239.86	239.86	239.86
Antenna Polarization:	Single	Single	Single
Azimuth:	50	165	295

Wallingford (MWW)	43° 18' 48.99"N	94° 48' 21"W	1401' AMSL
Antenna Information	(Antenna 1, Allgon 7838_00_):	(Antenna 2, Allgon 7838_00_):	(Antenna 3, Allgon 7838_00_):
Maximum Antenna Gain:	13.9	13.9	13.9
Beam Width:	90.00	90.00	90.00
Antenna Centerline:	275.0700073	275.0700073	275.0700073
Antenna Tip:	279	279	279
MAX ERP W:	197.22	197.22	197.22
Antenna Polarization:	Single	Single	Single
Azimuth:	50	170	290

Pocahontas (MWW)	42° 47' 22.99"N	94° 41' 57.93"W	1236' AMSL
Antenna Information	(Antenna 1, Antel Bcr-80010-180):		
Maximum Antenna Gain:	11.5		
Beam Width:	71.75		
Antenna Centerline:	305.0799866		
Antenna Tip:	310		
MAX ERP W:	105.19		
Antenna Polarization:	Single		
Azimuth:	270		

Emmetsburg (MWW)	43° 4' 5.99"N	94° 48' 25.94"W	1322' AMSL
Antenna Information	(Antenna 1, Allgon 7838_00_):	(Antenna 2, Allgon 7838_00_):	(Antenna 3, Allgon 7838_00_):
Maximum Antenna Gain:	13.9	13.9	13.9
Beam Width:	90.00	90.00	90.00
Antenna Centerline:	253.0599976	253.0599976	253.0599976
Antenna Tip:	257	257	257
MAX ERP W:	202.75	202.75	202.75
Antenna Polarization:	Single	Single	Single
Azimuth:	0	120	240

Armstrong (MWW)	43° 20' 29"N	94° 27' 37"W	1270' AMSL
Antenna Information	(Antenna 1, ALLGON 7143.48.05.00):	(Antenna 2, Allgon 7144.48):	(Antenna 3, Allgon 7144.48):
Maximum Antenna Gain:	16.5	15.0	15.0
Beam Width:	60.21	92.50	92.50
Antenna Centerline:	240.0599976	240.0599976	240.0599976
Antenna Tip:	244	244	244
MAX ERP W:	386.33	273.50	273.50
Antenna Polarization:	Single	Single	Single
Azimuth:	345	100	220

Whittemore (MWW)	43° 3' 54"N	94° 25' 35"W	1211' AMSL
Antenna Information	(Antenna 1, Kathrein OGC-9860):		
Maximum Antenna Gain:	9.0		
Beam Width:	360.00		
Antenna Centerline:	185		
Antenna Tip:	190		
MAX ERP W:	65.31		
Antenna Polarization:	Single		
Azimuth:	0		

Sioux Rapids (MWW)	42° 55' 33.56"N	95° 8' 2.57"W	1406' AMSL
Antenna Information	(Antenna 1, ALLGON 7278):	(Antenna 2, ALLGON 7278):	(Antenna 3, Allgon 7272):
Maximum Antenna Gain:	15.0	15.0	14.5
Beam Width:	88.77	88.77	64.94
Antenna Centerline:	223.0599976	223.0599976	223.0599976
Antenna Tip:	227	227	226
MAX ERP W:	271.00	271.00	241.52
Antenna Polarization:	Single	Single	Single
Azimuth:	310	75	195

Spirit Lake West (MWW)	43° 25' 58.1"N	95° 10' 48.1"W	1437' AMSL
Antenna Information	(Antenna 1, Allgon 7272):	(Antenna 2, Allgon 7272):	(Antenna 3, Allgon 7834_00_):
Maximum Antenna Gain:	14.5	14.5	11.9
Beam Width:	64.94	64.94	90.00
Antenna Centerline:	180	180	180
Antenna Tip:	183	183	182
MAX ERP W:	226.97	226.97	123.30
Antenna Polarization:	Single	Single	Single
Azimuth:	90	180	315

Alta (MWW)	42° 40' 37.12"N	95° 18' 12.04"W	1495' AMSL
Antenna Information	(Antenna 1, Allgon 7272):	(Antenna 2, Allgon 7272):	(Antenna 3, Allgon 7272):
Maximum Antenna Gain:	14.5	14.5	14.5
Beam Width:	64.94	64.94	64.94
Antenna Centerline:	180.0500031	180.0500031	180.0500031
Antenna Tip:	183	183	183
MAX ERP W:	225.92	225.92	225.92
Antenna Polarization:	Single	Single	Single
Azimuth:	0	120	230

Pocahontas Downtown (MWW)	42° 43' 52.6"N	94° 40' 2.82"W	1220' AMSL
Antenna Information	(Antenna 1, Antel Rwa-80016LSCF):	(Antenna 2, Antel Rwa-80016LSCF):	(Antenna 3, Antel Rwa-80016LSCF):
Maximum Antenna Gain:	15.0	15.0	15.0
Beam Width:	84.00	84.00	84.00
Antenna Centerline:	180.0500031	180.0500031	180.0500031
Antenna Tip:	184	184	184
MAX ERP W:	253.49	253.49	253.49
Antenna Polarization:	Single	Single	Single
Azimuth:	20	140	260

Proponent is deleting locations 6 and 9. These locations will no longer contribute to the SAB.

III. Extensions

The proposed contours of the listed cell sites are not wholly encompassed within the market boundary of Iowa 15 - Dickinson and its authorized extensions. The proposed contours extend into Iowa RSAs 9, 10, 14, and 16; and Minnesota RSAs 9 and 10., whose legal entities are Cellular, Inc. Financial Corporation, IOWA RSA NO. 10 GENERAL PARTNERSHIP, Midwest Wireless Iowa L.L.C. d/b/a Alltel, CELLULAR INC. NETWORK CORPORATION. There are no objections to these new extensions.

Due to the technical configurations of the listed cell sites, the contours will cover a portion of unserved area within CMA483, which does exceed 50 square miles (approx. 97.4 square miles).

IV. Public Interest

The addition of the listed sites is deemed necessary to provide enhanced coverage to counties of Dickinson, Emmet, Clay, Palo Alto, Buena Vista, and Pocahontas, Iowa. [FCC Part 22.912 (d)].

V. Methods Employed

Except where specifically stated, all computations and data contained herein, or upon which this exhibit is based, are in exact accordance with the pertinent requirements of the FCC rules [FCC Part 22.911(a)(1)] and sound engineering practice.