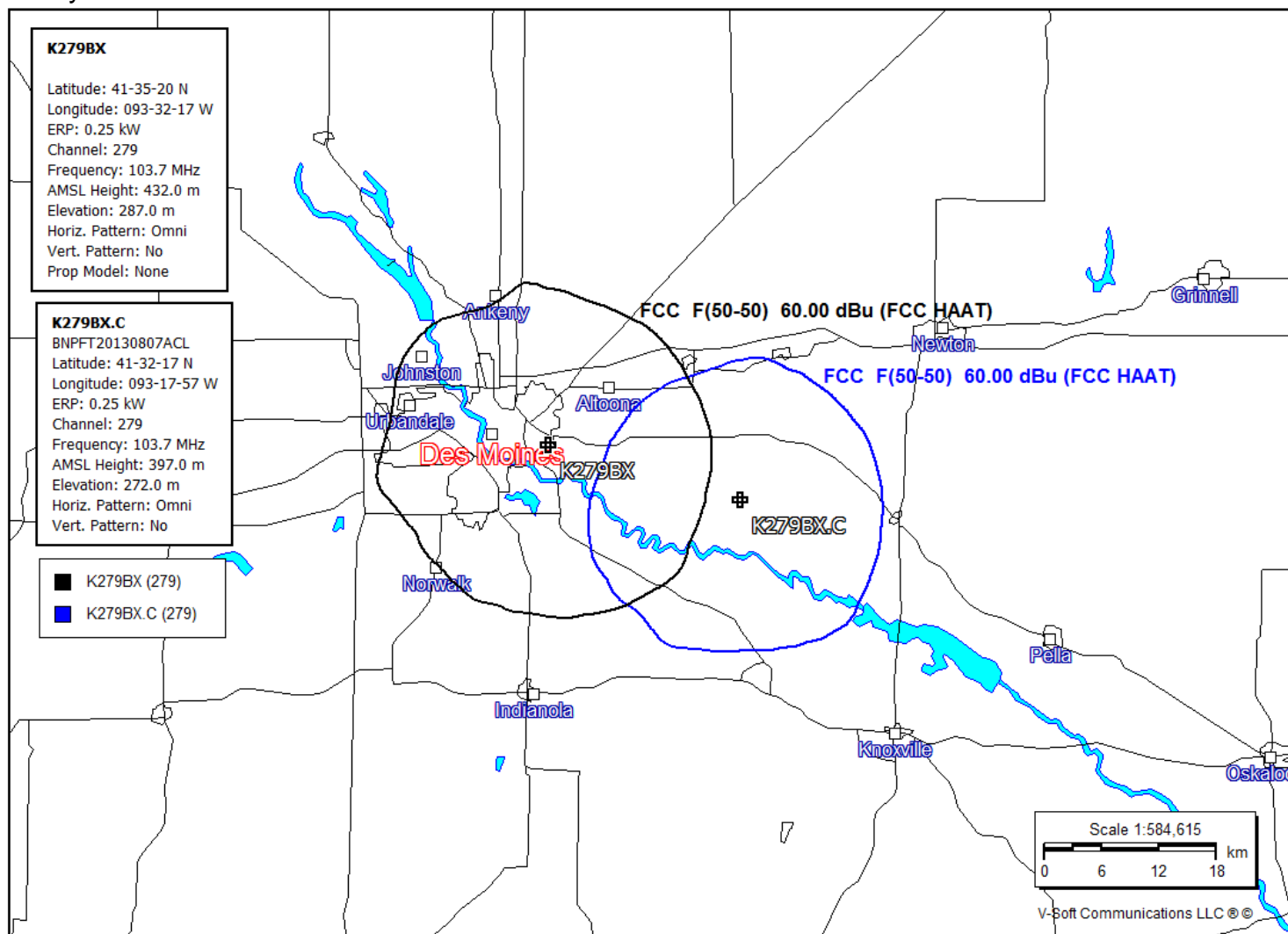


## Proposed Minor Change

Shown on the map below is the FCC F(50/50) 60dBu contour of the construction permit and proposed facility of K279BX.



## Channel Study

REFERENCE CH# 279D - 103.7 MHz, Pwr= 0.25 kW, HAAT= 168.2 M, COR= 432 M DISPLAY DATES  
 41 35 20.0 N. Average Protected F(50-50)= 17.0 km DATA 02-17-14  
 93 32 17.0 W. Omni-directional SEARCH 02-17-14

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*
279D Knoxville	K279BX	CP	C IA	105.8 286.0	20.66 BNPFT20130807ACL	41 32 17.0 93 17 57.0	0.250 140	53.0 397	14.9 Edgewater Broadcasting, In	-48.6*	-51.8
277C1 Pella	KAZR	LIC	CX IA	105.8 286.0	20.66 BMLH20120925AAO	41 32 17.0 93 17 57.0	100.000 227	8.8 489	66.2 Saga Communications Of Iow	-5.3	-46.6*
281C0 Ames	KLTI-FM	LIC	CN IA	319.1 138.8	46.23 BLH19861229KC	41 54 09.0 93 54 15.0	100.000 308	10.8 615	75.7 Saga Communications Of Iow	17.8	-30.6*
279C0 Glenwood	KXKT	LIC	CX IA	262.3 80.6	209.63 BLH20060531ANQ	41 18 32.0 96 01 33.0	100.000 331	177.4 674	75.7 Capstar Tx Llc	14.1	76.8
279D Marshalltown	K279AN	CP	C IA	43.4 223.8	74.04 BPFT20130701ACZ	42 04 17.0 92 55 19.0	0.250 36	23.8 325	7.1 Mtn Broadcasting Inc.	34.2	14.8
279D Marshalltown	K279AN	LIC	C IA	48.8 229.3	70.70 BLFT20070514ABM	42 00 21.0 92 53 38.0	0.003 84	10.6 371	3.3 Mtn Broadcasting Inc.	44.0	15.2
225D Ames	1547226	APP	DV IA	346.7 166.6	51.32 BNPFT20130325AJC	42 02 18.0 93 40 53.0	0.250 121	0.0 427	0.0 Citicasters Licenses, L.p.	10.0R	41.3M
279C3 Clear Lake	KLKK	LIC	NCX IA	9.3 189.6	172.65 BLH20070410ACT	43 07 15.0 93 11 36.0	25.000 100	112.2 453	37.7 Coloff Media, Llc	44.1	83.1

Terrain database is NGDC 30 SEC, R= 73.215 qualifying spacings or FCC minimum spacings in KM, M= Margin in KM  
 In & Out distances between contours are shown at closest points. Reference Zone=West Zone, Coto 3rd adjacent.  
 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.  
 « = Station meets FCC minimum distance spacing for its class.

**Compliance with C.F.R. 74.1204**

The proposed FM Translator is located within the protected 60 dBu contour of second adjacent channel stations KAZR channel 277C1, Pella, IA and KLTi-FM channel 281C0, Ames, IA. According to 74.1204(a)(3), in order to protect second and third adjacent facilities, the difference in dBu between the two facilities must not exceed 40dBu.

The proposed ERP for K279BX.P:	250 watts
The proposed COR for K279BX.P:	145 meters
<b>KAZR</b> F(50/50) contour at proposed site:	85.1 dBu
The F(50/10) contour of proposed K279BX.P	125.1 dBu
<b>KLTi-FM</b> F(50/50) contour at proposed site:	73.2 dBu
The F(50/10) contour of proposed K279BX.P	113.2 dBu

By taking into account the antenna vertical elevation pattern for a one bay Jampro, JLCP antenna, it has been determined that the furthest predicted interfering contour will not actually reach the ground (see Exhibit 13 A-1).

Therefore, EMF respectfully requests a waiver of C.F.R. 74.1204 based on no population within the area of predicted interference.

EXHIBIT 13 - A1  
74.1204(d) Showing  
K279BX  
KNOXVILLE, IA

KAZR AND K279BX

ERP (kw): 0.25  
Height of Antenna above Ground (m): 145  
Translator's IX Contour: 125.1  
Antenna Type: JLCP-1

<u>Depression Angle from Horizon</u>	<u>Antenna Relative Field</u>	<u>ERP (kw) from the Antenna RF</u>	<u>Dist. To IX Contour (m)</u>	<u>Height IX Contour Above Ground (m)</u>
0	1.000	0.2500	61.6552	145.000
5	0.994	0.2470	61.2853	139.659
10	0.975	0.2377	60.1139	134.561
15	0.940	0.2209	57.9559	130.000
20	0.910	0.2070	56.1063	125.811
25	0.880	0.1936	54.2566	122.070
30	0.840	0.1764	51.7904	119.105
35	0.770	0.1482	47.4745	117.770
40	0.710	0.1260	43.7752	116.862
45	0.650	0.1056	40.0759	116.662
50	0.600	0.0900	36.9931	116.662
55	0.520	0.0676	32.0607	118.737
60	0.450	0.0506	27.7449	120.972
65	0.380	0.0361	23.4290	123.766
70	0.320	0.0256	19.7297	126.460
75	0.250	0.0156	15.4138	130.111
80	0.180	0.0081	11.0979	134.071
85	0.140	0.0049	8.6317	136.401
90	0.010	0.0000	0.6166	144.383

KLTI-FM AND K279BX

ERP (kw): 0.25  
Height of Antenna above Ground (m): 145  
Translator's IX Contour: 113.2  
Antenna Type: JLCP-1

<u>Depression Angle from Horizon</u>	<u>Antenna Relative Field</u>	<u>ERP (kw) from the Antenna RF</u>	<u>Dist. To IX Contour (m)</u>	<u>Height IX Contour Above Ground (m)</u>
0	1.000	0.2500	242.6443	145.000
5	0.994	0.2470	241.1884	123.979
10	0.975	0.2377	236.5781	103.919
15	0.940	0.2209	228.0856	85.967
20	0.910	0.2070	220.8063	69.480
25	0.880	0.1936	213.5269	54.760
30	0.840	0.1764	203.8212	43.089
35	0.770	0.1482	186.8361	37.835
40	0.710	0.1260	172.2774	34.262
45	0.650	0.1056	157.7188	33.476
50	0.600	0.0900	145.5866	33.474
55	0.520	0.0676	126.1750	41.643
60	0.450	0.0506	109.1899	50.439
65	0.380	0.0361	92.2048	61.434
70	0.320	0.0256	77.6462	72.036
75	0.250	0.0156	60.6611	86.406
80	0.180	0.0081	43.6760	101.988
85	0.140	0.0049	33.9702	111.159
90	0.010	0.0000	2.4264	142.574