

EXHIBIT 12 – NARRATIVE

This is an AM FILL – IN Window Application

Applicant Birach Broadcasting Corporation is submitting this application to construct a new FM translator for the purpose of AM Fill-in of its AM Station KXLQ 1490 Khz. FACILITY ID 70891, Indianola, IA.

Translator site is located such that this application will comply with FCC rule 74.1201(g)

KDXA ch 292 C3:

For the purposes of I.F. Separation, 53/54 channels difference, translators are considered as a Class A facility. This application is 53 channels from KDXA.

73.207(b)(1) Table A – Minimum I.F. Separation Class C3 to Class A is 12 km.

The distance between KDXA and this proposed translator is 5 km. Therefore per 74.1204(g) if the translator's ERP is less than 100 watts, then this proposed translator would not be subject to I.F separation requirements. The ERP of this proposed translator is 0.099 kw.

This application protects all full power stations, construction permits, allotments and applications.

TRANSLATOR SPECIFICATIONS

ANTENNA LOCATION: FCC ASRN 1016626

NAD(27): 41 – 38 – 05 N, 93 – 34 – 44 W

RCAGL – 100 meters

ERP – 0.099 watts H and V

ANTENNA – DIRECTIONAL SCA CA5-FM/CP/RM

CHANNEL – 239 (95.7 MHZ)

Exhibit 10 – AM FILL-IN Compliance Map

Exhibit 12 – This narrative, aerial photo of site, antenna pattern, exhibits 10, 13 and 17.

Exhibit 13 – Overlap Requirements, channel study and map.

Exhibit 17 – Environmental and RFE

This application will not have a significant impact on the environment.

Worse case RFE analysis.

Antenna is a Scala CA 5 – FM / CP/ RM.

RCAGL of 100 meters, less 2 meters, specified in this application, the RFE is calculated using the formula

$$S = \frac{33.4 (F^2) ERP}{R^2}$$

R = 98 meters

ERP = 0.198 kw

F = 1

S = 0.69 μ W/cm² which is 0.35 % of the 200 μ W/cm² maximum allowable for uncontrolled public access.

Additional RF sources on this tower:

The above equation is used to calculate the ground level RFE for both of the following facilities.

K209EN ch 209 (89.7 MHz)

ERP – 0.099 kw

RCAGL – 76 meters

$S = 1.21 \mu\text{W}/\text{cm}^2$, which is 0.6 % of the $200 \mu\text{W}/\text{cm}^2$ maximum allowable for uncontrolled public access.

K295CB ch 295 (106.9 MHz)

ERP – 0.132 kw

RCAGL – 112 meters

$S = 0.73 \mu\text{W}/\text{cm}^2$, which is 0.36 % of the $200 \mu\text{W}/\text{cm}^2$ maximum allowable for uncontrolled public access.

Total RFE:

$S = 2.63 \mu\text{W}/\text{cm}^2$, which is 1.32 % of the $200 \mu\text{W}/\text{cm}^2$ maximum allowable for uncontrolled public access.

Applicant will reduce power or cease operation as necessary to protect persons having access to the site, tower or antenna from radio frequency electromagnetic fields in excess of FCC guidelines.

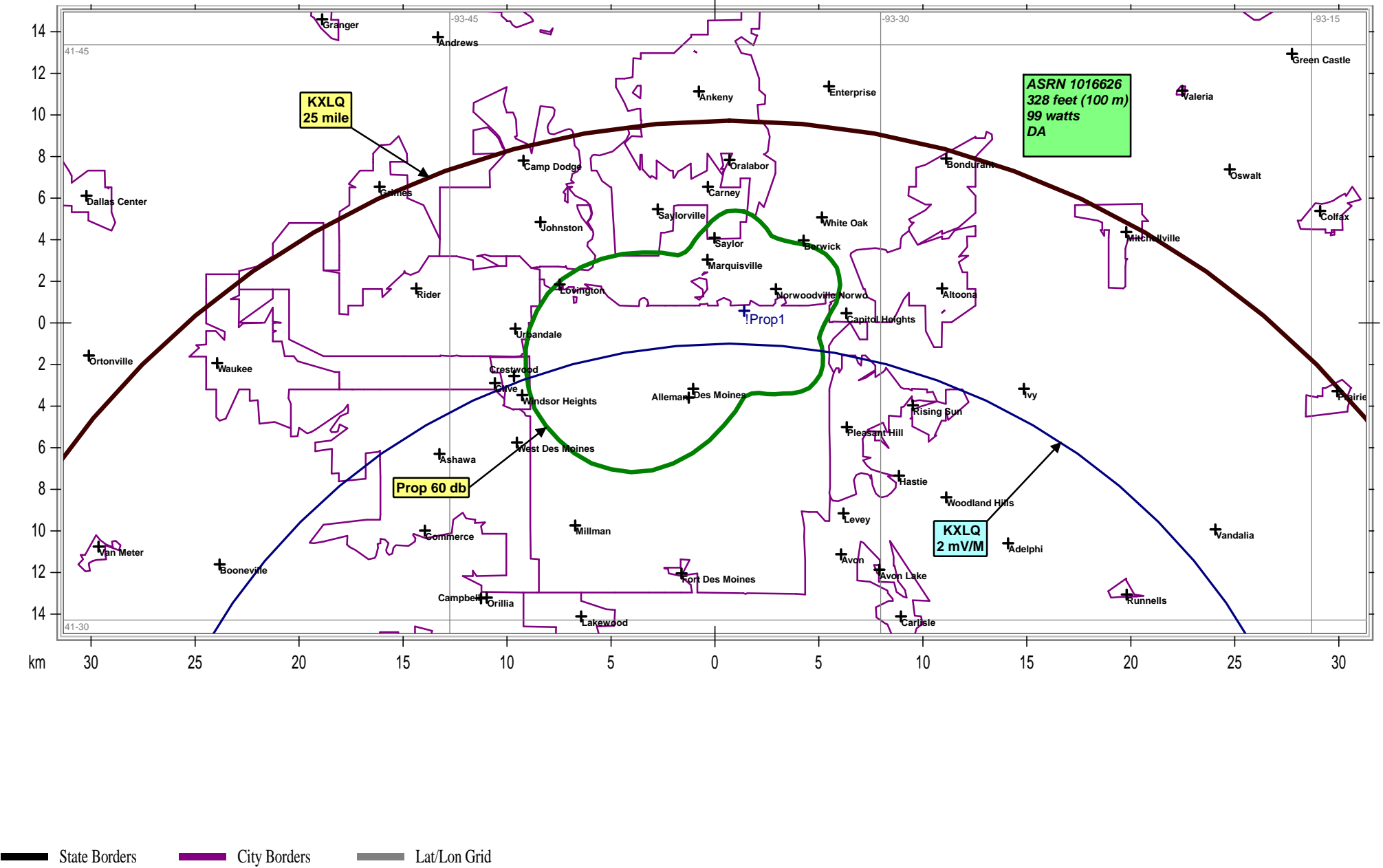


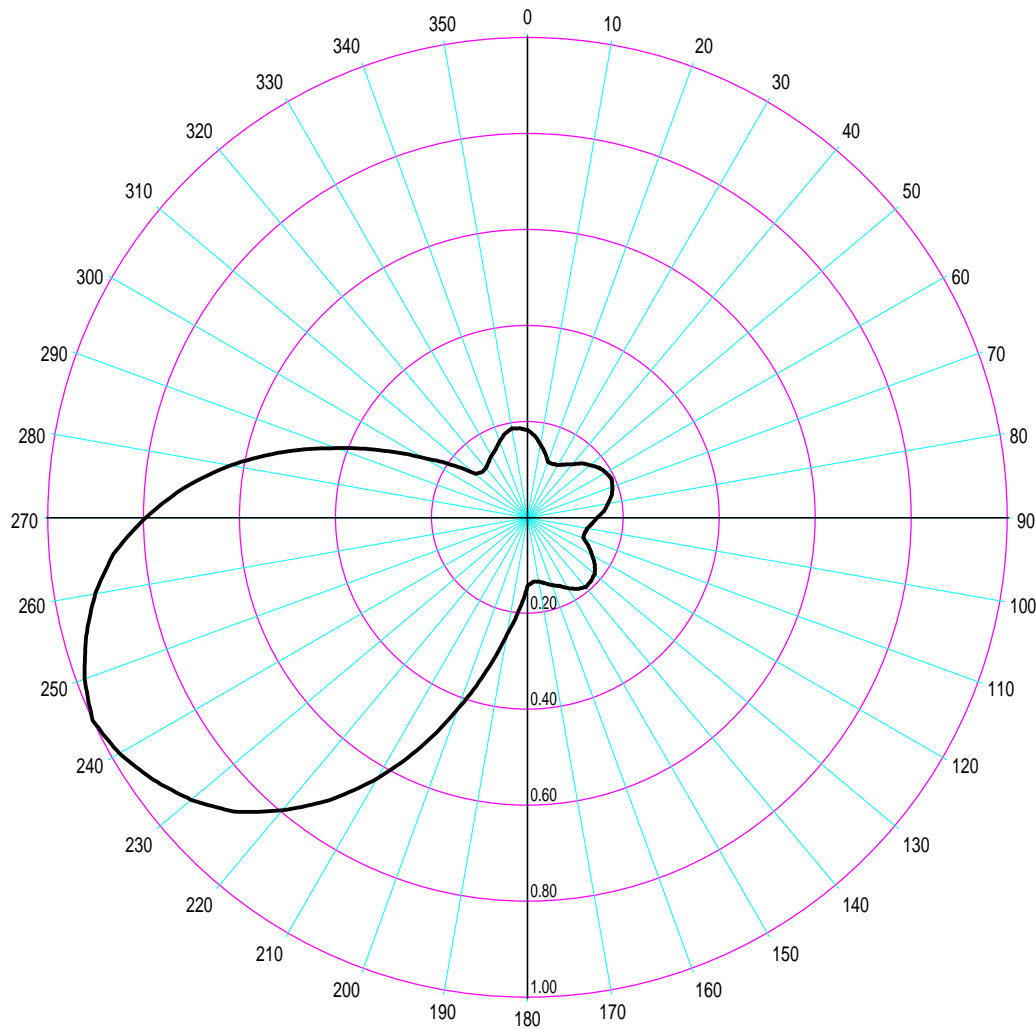
EXHIBIT 12

Aerial photo of proposed site
for AM fill-in translator

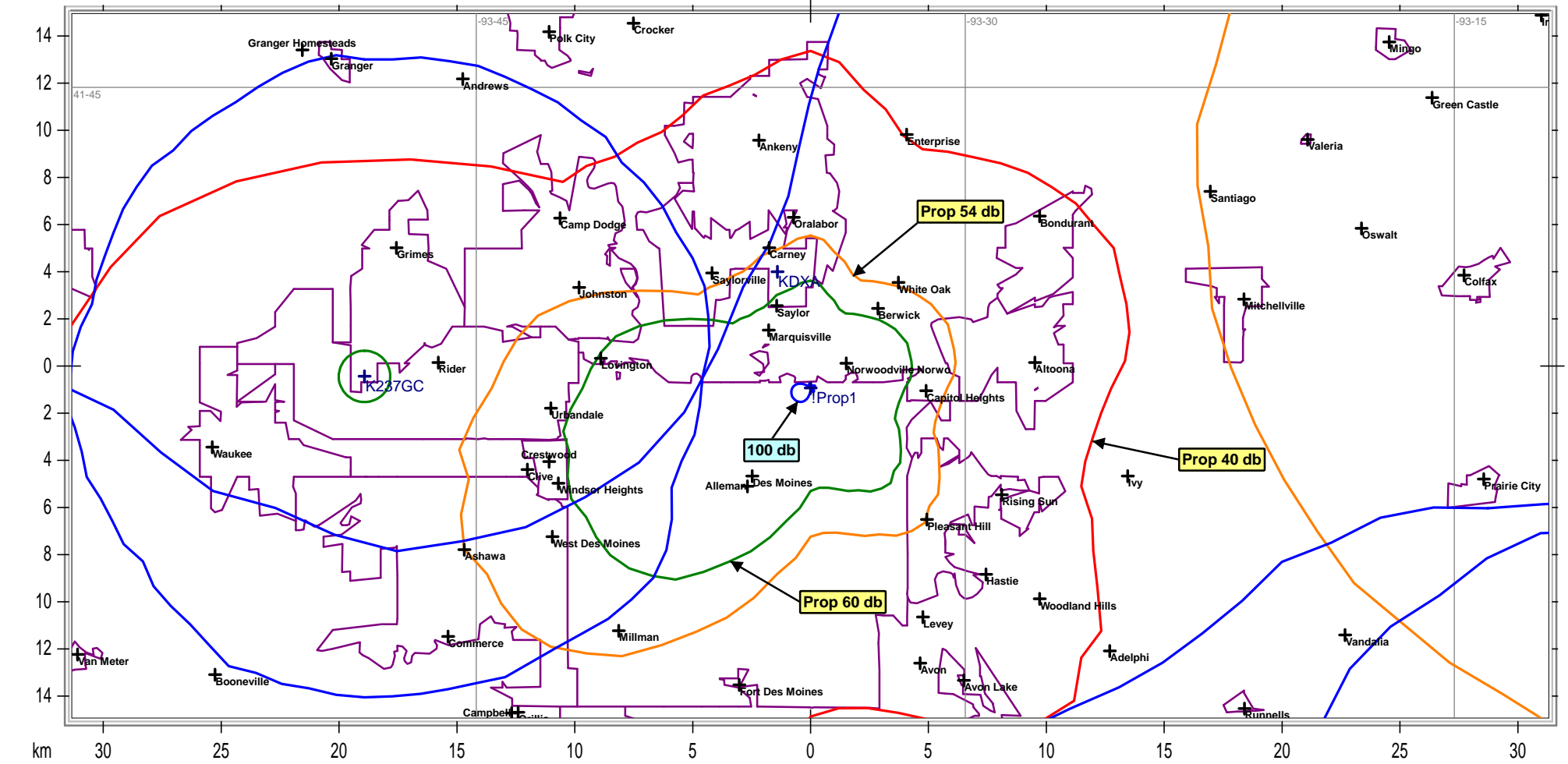
Legend

1016626





Azim	Rel.FS	ERP [W]	dBk	Azim	Rel.FS	ERP [W]	dBk
0.0	0.183	3.315	-24.795	185.0	0.190	3.574	-24.469
5.0	0.171	2.895	-25.384	190.0	0.247	6.040	-22.190
10.0	0.155	2.378	-26.237	195.0	0.329	10.716	-19.700
15.0	0.140	1.940	-27.121	200.0	0.423	17.714	-17.517
20.0	0.123	1.498	-28.246	205.0	0.528	27.600	-15.591
25.0	0.123	1.498	-28.246	210.0	0.628	39.044	-14.084
30.0	0.127	1.597	-27.968	215.0	0.718	51.037	-12.921
35.0	0.135	1.804	-27.437	220.0	0.796	62.728	-12.025
40.0	0.145	2.081	-26.816	225.0	0.866	74.246	-11.293
45.0	0.160	2.534	-25.961	230.0	0.915	82.885	-10.815
50.0	0.170	2.861	-25.435	235.0	0.952	89.724	-10.471
55.0	0.182	3.279	-24.842	240.0	0.982	95.468	-10.201
60.0	0.188	3.499	-24.560	245.0	1.000	99.000	-10.044
65.0	0.193	3.688	-24.333	250.0	0.982	95.468	-10.201
70.0	0.188	3.499	-24.560	255.0	0.952	89.724	-10.471
75.0	0.182	3.279	-24.842	260.0	0.915	82.885	-10.815
80.0	0.170	2.861	-25.435	265.0	0.866	74.246	-11.293
85.0	0.160	2.534	-25.961	270.0	0.796	62.728	-12.025
90.0	0.145	2.081	-26.816	275.0	0.718	51.037	-12.921
95.0	0.135	1.804	-27.437	280.0	0.628	39.044	-14.084
100.0	0.127	1.597	-27.968	285.0	0.528	27.600	-15.591
105.0	0.123	1.498	-28.246	290.0	0.423	17.714	-17.517
110.0	0.123	1.498	-28.246	295.0	0.329	10.716	-19.700
115.0	0.140	1.940	-27.121	300.0	0.247	6.040	-22.190
120.0	0.155	2.378	-26.237	305.0	0.190	3.574	-24.469
125.0	0.171	2.895	-25.384	310.0	0.142	1.996	-26.998
130.0	0.183	3.315	-24.795	315.0	0.134	1.778	-27.502
135.0	0.187	3.462	-24.607	320.0	0.135	1.804	-27.437
140.0	0.189	3.536	-24.514	325.0	0.142	1.996	-26.998
145.0	0.181	3.243	-24.890	330.0	0.150	2.228	-26.522
150.0	0.170	2.861	-25.435	335.0	0.157	2.440	-26.126
155.0	0.157	2.440	-26.126	340.0	0.170	2.861	-25.435
160.0	0.150	2.228	-26.522	345.0	0.181	3.243	-24.890
165.0	0.142	1.996	-26.998	350.0	0.189	3.536	-24.514
170.0	0.135	1.804	-27.437	355.0	0.187	3.462	-24.607
175.0	0.134	1.778	-27.502				
180.0	0.142	1.996	-26.998				



State Borders

City Borders

Lat/Lon Grid

**EXHIBIT 13
OVERLAP REQUIREMENTS STUDY**

Callsign	State	City	Freq	Channel	ERP_w	Class	Status	Distance_km	Sep	Clr
KDXA	IA	ANKENY	106.3	292	25000	C3	LIC	5.17	12	-6.8
K237GC	IA	DES MOINES	95.3	237	250	D	LIC	19.01	0	3.69 dB
KNWM	IA	MADRID	96.1	241	6000	A	LIC	26.97	0	3.82 dB
KCOB-FM	IA	NEWTON	95.9	240	5100	A	LIC	47.91	0	6.06 dB
KICL	IA	PLEASANTVILLE	96.3	242	6000	A	LIC	42.74	0	10.23 dB
KSWI	IA	ATLANTIC	95.7	239	20000	C3	LIC	106.98	0	12.50 dB
KICL	IA	PLEASANTVILLE	96.3	242	5400	A	CP MOD	53.08	0	13.71 dB
KQWC-FM	IA	WEBSTER CITY	95.7	239	25000	C3	LIC	94.3	0	18.08 dB
K238AN	IA	AMES	95.5	238	25	D	LIC	43.29	0	29.79 dB
K237DH	IA	KNOXVILLE	95.3	237	250	D	LIC	51.39	0	30.55 dB
KMFH-LP	IA	OSKALOOSA	95.7	239	100	LP100	LIC	86.91	24	31.91 dB
KZAT-FM	IA	BELLE PLAINE	95.5	238	4400	A	LIC	104.04	0	32.34 dB
KAAN-FM	MO	BETHANY	95.5	238	50000	C2	LIC	160.57	0	34.16 dB
KIFG-FM	IA	IOWA FALLS	95.3	237	6000	A	LIC	102.18	0	35.21 dB
KCSI	IA	VILLISCA	95.3	237	50000	C2	LIC	151.6	0	35.09 dB
KISO	NE	OMAHA	96.1	241	82000	C0	LIC	207.56	0	36.79 dB
KOKX-FM	IA	KEOKUK	95.3	237	100000	C1	LIC	216.56	0	39.10 dB