

Technical Report K255DN.CP Minor Modification

This technical report is submitted for a minor modification to K255DN.CP, FCC facility ID 146181. A site change to a nearby tower is submitted for the translator to serve as a fill-in to rebroadcast the primary KVOM(AM) 800 kHz facility at Morrilton, AR, FCC facility ID 4380. The change does not materially impact the previous non-adjacent channel showings.

K255DN.CP Modification Analysis:

An overlap study in exhibit E-1 shows the K255DN.CP modification is within the KURB(FM) 253C0 protected contour. Using the vertical elevation pattern of the Bext TFC2K single bay antenna (exhibit E-2), the +40 121.2 F(50-10) dBu contour lowest point at the 270 degree azimuth = 5.9 meters above the site elevation (exhibit E-3), which does not reach any buildings, roads or population (exhibit E-4). The 60 dBu contour overlaps the original K223CR 60 dBu contour and is contained within the 25 mile/40 Km radius from the KVOM(AM) daytime site (exhibit E-5).

Antenna System:

The K255DN.CP modification will be located on the existing 96 meter tower, ASR #1217182 at coordinates:

35 06 34.3N 092 30 27.5W NAD 83

A Bext TFC2K-1 directional antenna (exhibit E-6) will be mounted at a COR AGL of 53.9 meters, 204.8 meters AMSL, 104.2 meter HAAT (exhibit E-7) and operate at 0.250 kW ERP.

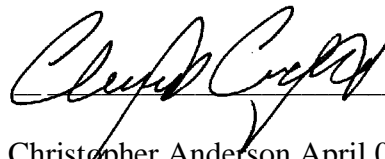
RF Exposure Calculation:

The RF contribution was calculated using FMModel (exhibit E-8). The RF is calculated to be 1.71 $\mu\text{W}/\text{cm}^2$ at a distance of 53.2 meters from the base of the tower, which is less than 5%

of the 200 $\mu\text{W}/\text{cm}^2$ maximum permissible for general public exposure allowing exclusion from consideration.

Conclusion:

It is concluded that the minor modification application for K255DN.CP complies with all Commission rules and policies.

A handwritten signature in black ink, appearing to read 'Christopher Anderson', is written over a horizontal line.

Christopher Anderson April 07, 2022
andersce@bham.rr.com

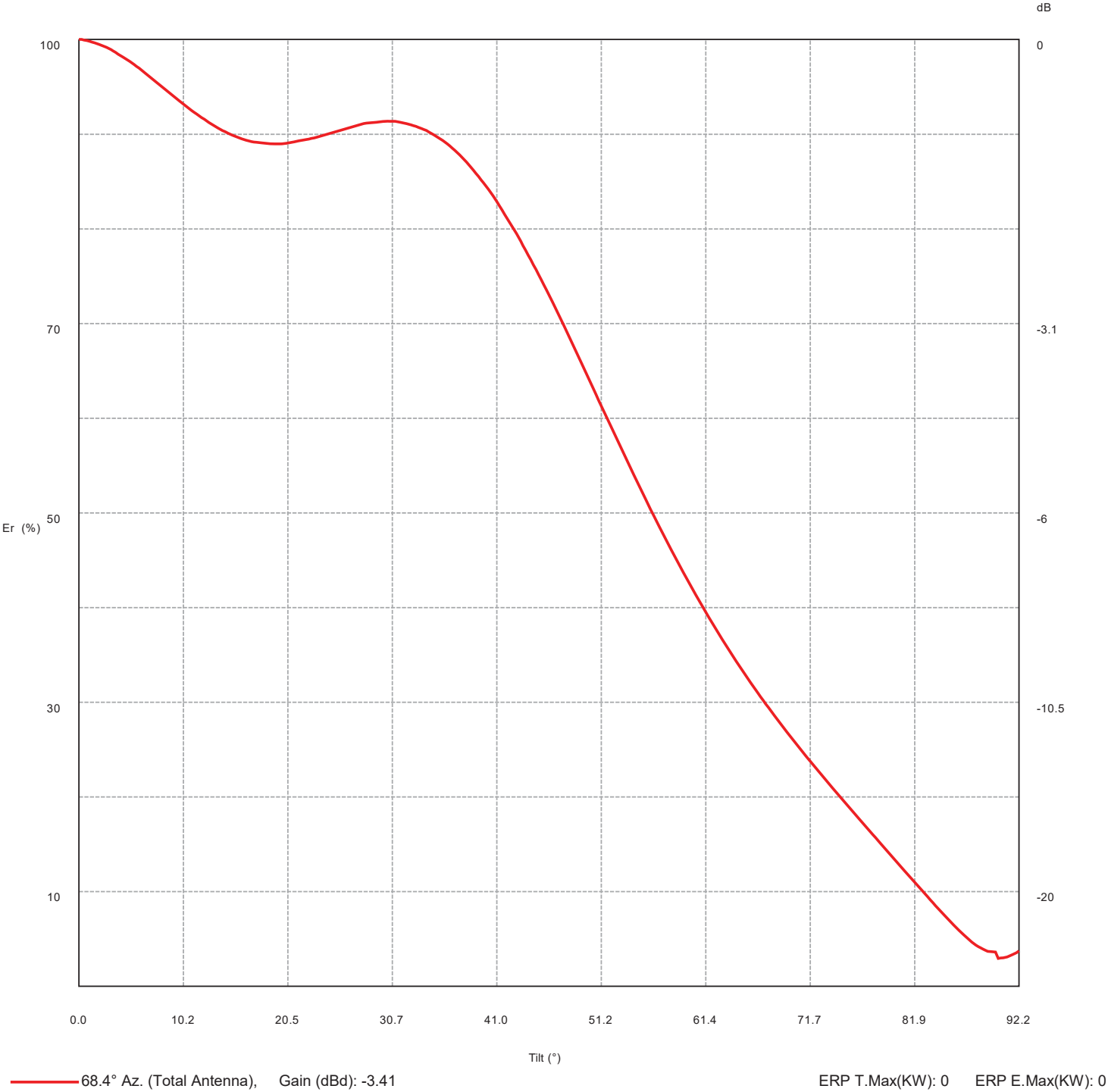
E-1 K255DN.CP Mod. Overlap Study

REFERENCE 35 06 34.30 N. 92 30 27.50 W.		CH#	255D	- 98.9 MHz,	Pwr= 0.25 kW DA,	HAAT= 104.2 M,	COR= 204.8 M	DISPLAY DATES DATA 04-08-22 SEARCH 04-08-22		
Average Protected F(50-50)= 13.13 km Standard Directional										
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* in km)
255D Conway	K255DN/K2	CP DCN AR	263.7 83.7	1.03 0000166890	35 06 30.60 92 31 08.30	0.250 202	36.7	10.8 East Arkansas Broadcasters	-49.1*	-55.5*
253C0 Li ttle Rock	KURB	LIC _CN AR	178.2 358.2	34.54 BLH19880727KA	34 47 56.30 92 29 44.60	100.000 392	11.8 518	81.0 Radi o Li cense Hol di ng Cbc,	10.6	-47.4*
256C3 Pangburn	KRZS	LIC ZCN AR	65.3 245.8	76.74 BLH20021127ACD	35 23 43.30 91 44 17.50	25.000 100	66.1 217	43.9 Crain Medi a Group, LLC	-1.5	15.0
255C3 Ri son	NEW	APP NCN AR	173.1 353.1	124.20 0000158963	34 00 01.80 92 20 41.10	21.000 100	111.5 162	39.4 Del taplex Radi o, LLC	0.6	43.4
255L1 Li ttle Rock	KWCP-LP	LIC _CN AR	164.3 344.4	45.83 BLL20160630ABQ	34 42 45.30 92 22 18.50	0.100 30	139	14.7 John Barrow Nei ghborhood A	2.7	
257A Atki ns	KCON/KASR	CP _CN AR	294.0 113.8	37.11 0000145837	35 14 41.20 92 52 51.60	5.000 110	3.1 244	32.8 Eab Of Morril ton, LLC	22.2	3.6
257A Atki ns	KASR	LIC _CN AR	294.0 113.8	37.11 BMLH20040317ABU	35 14 41.30 92 52 51.60	4.100 120	2.9 244	31.2 Eab Of Morril ton, LLC	22.4	5.1
258A Li ttle Rock	KDIS-FM	LIC _CN AR	152.9 333.0	42.85 BLH20140220ADC	34 45 58.30 92 17 38.50	6.000 95	2.8 197	29.2 Sal em Communi cations Hol di	27.7	12.6
202C1 Li ttle Rock	KABF	LIC _CN AR	175.5 355.5	35.33 BLED19900803KC	34 47 31.30 92 28 38.50	91.000 237	19.2 362	5.6 Arkansas Broadcas ting Foun	21.5R	13.8M
258A Li ttle Rock	KDIS-FM	APP NCN AR	157.0 337.1	44.15 0000188891	34 44 37.90 92 19 06.60	5.700 97	2.8 197	28.5 Sal em Communi cations Hol di	29.3	14.4
256L1 Paron	KILB-LP	LIC _CN AR	211.6 31.5	47.07 BLL20170202ABN	34 44 55.30 92 46 40.60	0.100 30	211	25.1 Amazi ng Grace Church	19.7	
255A Ri son.	AL250766	ALO D__ AR	172.4 352.5	124.19 0000148039	34 00 07.40 92 19 49.50	6.000 100	88.5 162	29.4 23.6		53.2
255A Ri son	AL6232	RSV-A ____ AR	172.4 352.5	124.19	34 00 07.37 92 19 49.54	6.000 100	88.5 162	29.4 From CDBS	23.6	53.2
255D Marshall	K255DM	LIC _CN AR	353.7 173.6	88.58 BLFT20190909AAL	35 54 05.00 92 36 58.00	0.250 526	50.3	14.1 Ichthus Outreach Mi nistrie	29.0	37.0
255A Ri son	AL6234	RSV-A ____ AR	164.7 344.9	130.69	33 58 30.36 92 08 00.51	6.000 100	85.4 166	27.3 From CDBS	33.4	65.2
255A Ri son	AL10699	ALO ____ AR	167.8 348.0	132.78	33 56 30.40 92 12 13.50	6.000 100	86.3 159	28.0 34.5		65.4
255A Ri son	AU7057827	VAC ____ AR	167.8 348.0	132.78 RM10246	33 56 30.36 92 12 13.53	6.000 100	86.3 159	28.0 From CDBS	34.5	65.4
256C Fort Smi th	KMAG	LIC _CN AR	269.5 88.2	197.67 BLH19900430KB	35 04 26.30 94 40 48.80	100.000 600	137.8 780	92.8 I hm Li censes, LLC	46.5	85.0

Terrain database is FCC 30 meter , 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, Co to 3rd adjacent.
All separation margins (if shown) include rounding.
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.
« = Station meets FCC minimum distance spacing for its class.

- (1) The +40 121.2 F(50-10) dBu contour within the KURB(FM) 253C0 second-adjacent protected contour (exhibit E-3) lowest point at the 270 degree azimuth = 5.9 meters above the site elevation and does not reach any population, roads or buildings (exhibit E-4) .

Vertical diagram at an azimuth of 68.4°



Vertical diagram at an azimuth of 68.4°

Dep (°)	Er (%)	ERP (W)	Dep (°)	Er (%)	ERP (W)	Dep (°)	Er (%)	ERP (W)
0.0	100.1	0.5	15.4	89.8	0.4	30.7	91.4	0.4
0.3	100.0	0.5	15.6	89.6	0.4	31.0	91.4	0.4
0.5	99.9	0.5	15.9	89.5	0.4	31.2	91.3	0.4
0.8	99.9	0.5	16.1	89.4	0.4	31.5	91.3	0.4
1.0	99.8	0.5	16.4	89.4	0.4	31.7	91.2	0.4
1.3	99.7	0.5	16.6	89.3	0.4	32.0	91.1	0.4
1.5	99.6	0.5	16.9	89.2	0.4	32.3	91.1	0.4
1.8	99.6	0.5	17.2	89.2	0.4	32.5	91.0	0.4
2.0	99.5	0.5	17.4	89.1	0.4	32.8	90.9	0.4
2.3	99.3	0.4	17.7	89.1	0.4	33.0	90.8	0.4
2.6	99.2	0.4	17.9	89.1	0.4	33.3	90.7	0.4
2.8	99.1	0.4	18.2	89.1	0.4	33.5	90.6	0.4
3.1	99.0	0.4	18.4	89.0	0.4	33.8	90.5	0.4
3.3	98.8	0.4	18.7	89.0	0.4	34.0	90.4	0.4
3.6	98.6	0.4	18.9	89.0	0.4	34.3	90.2	0.4
3.8	98.5	0.4	19.2	89.0	0.4	34.6	90.1	0.4
4.1	98.3	0.4	19.5	89.0	0.4	34.8	89.9	0.4
4.4	98.1	0.4	19.7	89.0	0.4	35.1	89.7	0.4
4.6	97.9	0.4	20.0	89.0	0.4	35.3	89.6	0.4
4.9	97.8	0.4	20.2	89.0	0.4	35.6	89.4	0.4
5.1	97.6	0.4	20.5	89.1	0.4	35.8	89.2	0.4
5.4	97.4	0.4	20.7	89.1	0.4	36.1	89.0	0.4
5.6	97.2	0.4	21.0	89.2	0.4	36.4	88.8	0.4
5.9	97.0	0.4	21.2	89.2	0.4	36.6	88.5	0.4
6.1	96.8	0.4	21.5	89.3	0.4	36.9	88.3	0.4
6.4	96.5	0.4	21.8	89.3	0.4	37.1	88.0	0.4
6.7	96.3	0.4	22.0	89.4	0.4	37.4	87.7	0.4
6.9	96.1	0.4	22.3	89.4	0.4	37.6	87.5	0.3
7.2	95.8	0.4	22.5	89.5	0.4	37.9	87.2	0.3
7.4	95.6	0.4	22.8	89.5	0.4	38.1	86.9	0.3
7.7	95.4	0.4	23.0	89.6	0.4	38.4	86.5	0.3
7.9	95.2	0.4	23.3	89.7	0.4	38.7	86.2	0.3
8.2	94.9	0.4	23.6	89.8	0.4	38.9	85.9	0.3
8.4	94.7	0.4	23.8	89.8	0.4	39.2	85.5	0.3
8.7	94.5	0.4	24.1	89.9	0.4	39.4	85.2	0.3
9.0	94.3	0.4	24.3	90.0	0.4	39.7	84.8	0.3
9.2	94.1	0.4	24.6	90.1	0.4	39.9	84.5	0.3
9.5	93.8	0.4	24.8	90.2	0.4	40.2	84.1	0.3
9.7	93.6	0.4	25.1	90.2	0.4	40.4	83.7	0.3
10.0	93.4	0.4	25.3	90.3	0.4	40.7	83.3	0.3
10.2	93.2	0.4	25.6	90.4	0.4	41.0	82.9	0.3
10.5	93.0	0.4	25.9	90.5	0.4	41.2	82.5	0.3
10.8	92.7	0.4	26.1	90.6	0.4	41.5	82.0	0.3
11.0	92.5	0.4	26.4	90.6	0.4	41.7	81.5	0.3
11.3	92.3	0.4	26.6	90.7	0.4	42.0	81.1	0.3
11.5	92.1	0.4	26.9	90.8	0.4	42.2	80.6	0.3
11.8	91.9	0.4	27.1	90.9	0.4	42.5	80.2	0.3
12.0	91.8	0.4	27.4	91.0	0.4	42.8	79.7	0.3
12.3	91.6	0.4	27.6	91.0	0.4	43.0	79.3	0.3
12.5	91.4	0.4	27.9	91.1	0.4	43.3	78.8	0.3
12.8	91.2	0.4	28.2	91.2	0.4	43.5	78.3	0.3
13.1	91.0	0.4	28.4	91.2	0.4	43.8	77.8	0.3
13.3	90.8	0.4	28.7	91.2	0.4	44.0	77.2	0.3
13.6	90.7	0.4	28.9	91.2	0.4	44.3	76.7	0.3
13.8	90.5	0.4	29.2	91.3	0.4	44.5	76.2	0.3
14.1	90.4	0.4	29.4	91.3	0.4	44.8	75.7	0.3
14.3	90.2	0.4	29.7	91.3	0.4	45.1	75.2	0.3
14.6	90.1	0.4	30.0	91.4	0.4	45.3	74.6	0.3
14.8	90.0	0.4	30.2	91.4	0.4	45.6	74.1	0.2
15.1	89.9	0.4	30.5	91.4	0.4	45.8	73.5	0.2

Vertical diagram at an azimuth of 68.4°

Dep (°)	Er (%)	ERP (W)	Dep (°)	Er (%)	ERP (W)	Dep (°)	Er (%)	ERP (W)
46.1	73.0	0.2	61.4	39.5	0.1	76.8	17.3	0.0
46.3	72.4	0.2	61.7	39.0	0.1	77.1	17.0	0.0
46.6	71.9	0.2	62.0	38.6	0.1	77.3	16.6	0.0
46.8	71.3	0.2	62.2	38.1	0.1	77.6	16.3	0.0
47.1	70.8	0.2	62.5	37.7	0.1	77.8	16.0	0.0
47.4	70.2	0.2	62.7	37.2	0.1	78.1	15.7	0.0
47.6	69.6	0.2	63.0	36.8	0.1	78.3	15.4	0.0
47.9	69.0	0.2	63.2	36.3	0.1	78.6	15.1	0.0
48.1	68.4	0.2	63.5	35.9	0.1	78.8	14.8	0.0
48.4	67.9	0.2	63.7	35.5	0.1	79.1	14.4	0.0
48.6	67.3	0.2	64.0	35.0	0.1	79.4	14.1	0.0
48.9	66.7	0.2	64.3	34.6	0.1	79.6	13.8	0.0
49.2	66.1	0.2	64.5	34.2	0.1	79.9	13.5	0.0
49.4	65.5	0.2	64.8	33.8	0.1	80.1	13.2	0.0
49.7	64.9	0.2	65.0	33.4	0.1	80.4	12.9	0.0
49.9	64.3	0.2	65.3	33.0	0.0	80.6	12.6	0.0
50.2	63.7	0.2	65.5	32.6	0.0	80.9	12.2	0.0
50.4	63.1	0.2	65.8	32.2	0.0	81.2	11.9	0.0
50.7	62.5	0.2	66.0	31.8	0.0	81.4	11.6	0.0
50.9	61.9	0.2	66.3	31.4	0.0	81.7	11.3	0.0
51.2	61.3	0.2	66.6	31.0	0.0	81.9	11.0	0.0
51.5	60.7	0.2	66.8	30.6	0.0	82.2	10.7	0.0
51.7	60.1	0.2	67.1	30.2	0.0	82.4	10.4	0.0
52.0	59.5	0.2	67.3	29.8	0.0	82.7	10.1	0.0
52.2	59.0	0.2	67.6	29.4	0.0	82.9	9.7	0.0
52.5	58.4	0.2	67.8	29.1	0.0	83.2	9.4	0.0
52.7	57.8	0.2	68.1	28.7	0.0	83.5	9.1	0.0
53.0	57.2	0.1	68.4	28.3	0.0	83.7	8.8	0.0
53.2	56.6	0.1	68.6	28.0	0.0	84.0	8.5	0.0
53.5	56.0	0.1	68.9	27.6	0.0	84.2	8.2	0.0
53.8	55.5	0.1	69.1	27.2	0.0	84.5	7.9	0.0
54.0	54.9	0.1	69.4	26.9	0.0	84.7	7.6	0.0
54.3	54.3	0.1	69.6	26.5	0.0	85.0	7.3	0.0
54.5	53.7	0.1	69.9	26.2	0.0	85.2	7.0	0.0
54.8	53.1	0.1	70.1	25.8	0.0	85.5	6.7	0.0
55.0	52.5	0.1	70.4	25.5	0.0	85.8	6.4	0.0
55.3	52.0	0.1	70.7	25.1	0.0	86.0	6.2	0.0
55.6	51.4	0.1	70.9	24.8	0.0	86.3	5.9	0.0
55.8	50.9	0.1	71.2	24.5	0.0	86.5	5.6	0.0
56.1	50.3	0.1	71.4	24.1	0.0	86.8	5.4	0.0
56.3	49.7	0.1	71.7	23.8	0.0	87.0	5.1	0.0
56.6	49.2	0.1	71.9	23.4	0.0	87.3	4.9	0.0
56.8	48.6	0.1	72.2	23.1	0.0	87.6	4.7	0.0
57.1	48.1	0.1	72.4	22.8	0.0	87.8	4.4	0.0
57.3	47.6	0.1	72.7	22.4	0.0	88.1	4.2	0.0
57.6	47.0	0.1	73.0	22.1	0.0	88.3	4.1	0.0
57.9	46.5	0.1	73.2	21.8	0.0	88.6	3.9	0.0
58.1	46.0	0.1	73.5	21.4	0.0	88.8	3.8	0.0
58.4	45.5	0.1	73.7	21.1	0.0	89.1	3.7	0.0
58.6	44.9	0.1	74.0	20.8	0.0	89.3	3.7	0.0
58.9	44.4	0.1	74.2	20.5	0.0	89.6	3.6	0.0
59.1	43.9	0.1	74.5	20.2	0.0	89.9	3.6	0.0
59.4	43.4	0.1	74.8	19.8	0.0	90.1	2.9	0.0
59.6	42.9	0.1	75.0	19.5	0.0	90.4	3.0	0.0
59.9	42.4	0.1	75.3	19.2	0.0	90.6	3.0	0.0
60.2	41.9	0.1	75.5	18.9	0.0	90.9	3.1	0.0
60.4	41.5	0.1	75.8	18.5	0.0	91.1	3.2	0.0
60.7	41.0	0.1	76.0	18.2	0.0	91.4	3.3	0.0
60.9	40.5	0.1	76.3	17.9	0.0	91.6	3.4	0.0
61.2	40.0	0.1	76.5	17.6	0.0	91.9	3.6	0.0

E-3 K255DN.CP Mod. +40 F(50-10) dBu Tabulation Within KURB(FM) 253C0

K255DN Conway, AR, Showing Protection to KURB , Channel: 253
Geographic Coordinates: N. 350630.60 W. 92 31 08.30
74.1204(d) Study - Using FCC 30 SEC Terrain Database
Translator or LPFM Maximum Licensed ERP = 0.25 kW, Channel: 255
Translator or LPFM Antenna Height AG = 53.9 meters
K255DN Antenna Model = BEXT TFC2K-1

Protected Station's Contour = 81.19864 dBu
Translator's or LPFM's full Interference contour 121.19864

Review Azimuth = 270 Degrees True
Horizontal Relative Field at Review Azimuth = 0.864
Translator/LPFM ERP on the horizontal at Review Azimuth = 0.187 kW
Distance between stations = 34.5 km
Protected Station= KURB, 100 kW, 518 M meters COR AMSL

Depression Angle From Degree(Deg)	Vertical Relative Field	Horizontal Relative Field	ERP (kw)	Dist to IX Contour Along Dep. Angle(m)	Dist to IX Contour From Tower Base(m)	Height IX Above Ground (m)(1)
00.00	0.933	0.86	0.1880	083.7870	083.7870	053.900
01.00	0.932	0.86	0.1876	083.6972	083.6844	052.439
02.00	0.931	0.86	0.1872	083.6074	083.5564	050.982
03.00	0.931	0.86	0.1872	083.6074	083.4928	049.524
04.00	0.931	0.86	0.1872	083.6074	083.4037	048.068
05.00	0.932	0.86	0.1876	083.6972	083.3787	046.605
06.00	0.933	0.86	0.1880	083.7870	083.3280	045.142
07.00	0.935	0.86	0.1886	083.9217	083.2961	043.673
08.00	0.936	0.86	0.1892	084.0564	083.2384	042.202
09.00	0.938	0.86	0.1900	084.2360	083.1989	040.723
10.00	0.940	0.86	0.1909	084.4156	083.1331	039.241
11.00	0.941	0.86	0.1913	084.5054	082.9528	037.776
12.00	0.942	0.86	0.1917	084.5952	082.7466	036.312
13.00	0.942	0.86	0.1917	084.5952	082.4270	034.870
14.00	0.942	0.86	0.1917	084.5952	082.0824	033.435
15.00	0.941	0.86	0.1911	084.4605	081.5826	032.040
16.00	0.939	0.86	0.1905	084.3258	081.0592	030.657
17.00	0.936	0.86	0.1892	084.0564	080.3835	029.324
18.00	0.933	0.86	0.1880	083.7870	079.6862	028.008
19.00	0.930	0.86	0.1868	083.5176	078.9674	026.709
20.00	0.927	0.86	0.1856	083.2482	078.2277	025.427
21.00	0.923	0.86	0.1838	082.8440	077.3416	024.211
22.00	0.918	0.86	0.1820	082.4399	076.4370	023.017
23.00	0.914	0.86	0.1804	082.0807	075.5557	021.829
24.00	0.910	0.86	0.1789	081.7215	074.6563	020.661
25.00	0.906	0.86	0.1771	081.3174	073.6986	019.534
26.00	0.901	0.86	0.1753	080.9133	072.7244	018.430
27.00	0.897	0.86	0.1736	080.5091	071.7342	017.350
28.00	0.892	0.86	0.1719	080.1050	070.7285	016.293
29.00	0.888	0.86	0.1703	079.7458	069.7473	015.238
30.00	0.884	0.86	0.1688	079.3866	068.7508	014.207
31.00	0.880	0.86	0.1671	078.9825	067.7012	013.221
32.00	0.875	0.86	0.1654	078.5784	066.6382	012.260
33.00	0.870	0.86	0.1633	078.0844	065.4871	011.372
34.00	0.864	0.86	0.1612	077.5905	064.3255	010.512
35.00	0.858	0.86	0.1588	077.0068	063.0803	009.731
36.00	0.851	0.86	0.1564	076.4231	061.8276	008.980
37.00	0.843	0.86	0.1535	075.7046	060.4604	008.340
38.00	0.835	0.86	0.1506	074.9862	059.0899	007.734
39.00	0.826	0.86	0.1474	074.1780	057.6471	007.218
40.00	0.817	0.86	0.1442	073.3697	056.2045	006.739
41.00	0.806	0.86	0.1401	072.3370	054.5934	006.443
42.00	0.794	0.86	0.1362	071.3042	052.9894	006.188
43.00	0.782	0.86	0.1319	070.1817	051.3276	006.036
44.00	0.769	0.86	0.1277	069.0591	049.6770	005.927(1)
45.00	0.755	0.86	0.1230	067.7570	047.9114	005.989
46.00	0.740	0.86	0.1183	066.4548	046.1634	006.096
47.00	0.724	0.86	0.1132	065.0180	044.3422	006.349
48.00	0.708	0.86	0.1083	063.5811	042.5441	006.650
49.00	0.691	0.86	0.1030	062.0095	040.6819	007.101
50.00	0.673	0.86	0.0978	060.4380	038.8488	007.602
51.00	0.654	0.86	0.0924	058.7317	036.9611	008.257
52.00	0.635	0.86	0.0871	057.0254	035.1084	008.963
53.00	0.615	0.86	0.0817	055.2294	033.2379	009.792
54.00	0.595	0.86	0.0765	053.4333	031.4073	010.672
55.00	0.575	0.86	0.0713	051.5923	029.5921	011.638
56.00	0.554	0.86	0.0663	049.7513	027.8206	012.654
57.00	0.533	0.86	0.0612	047.8205	026.0449	013.794
58.00	0.511	0.86	0.0564	045.8898	024.3179	014.983
59.00	0.490	0.86	0.0519	044.0039	022.6637	016.181
60.00	0.469	0.86	0.0475	042.1180	021.0590	017.425
61.00	0.448	0.86	0.0433	040.1872	019.4831	018.751

Depression Angle From Degree(Deg)	Vertical Relative Field	Horizontal Relative Field	ERP (kw)	Dist to IX Contour Along Dep. Angle(m)	Dist to IX Contour From Tower Base(m)	Height IX Above Ground (m)
62.00	0.426	0.86	0.0392	038.2564	017.9603	020.122
63.00	0.406	0.86	0.0355	036.4155	016.5323	021.454
64.00	0.385	0.86	0.0320	034.5745	015.1565	022.825
65.00	0.365	0.86	0.0287	032.7335	013.8338	024.233
66.00	0.344	0.86	0.0256	030.8925	012.5651	025.678
67.00	0.325	0.86	0.0228	029.1862	011.4040	027.034
68.00	0.306	0.86	0.0202	027.4800	010.2942	028.421
69.00	0.288	0.86	0.0179	025.8186	009.2526	029.796
70.00	0.269	0.86	0.0156	024.1572	008.2623	031.200
71.00	0.252	0.86	0.0137	022.5857	007.3532	032.545
72.00	0.234	0.86	0.0118	021.0141	006.4937	033.914
73.00	0.218	0.86	0.0102	019.5323	005.7107	035.221
74.00	0.201	0.86	0.0087	018.0506	004.9754	036.549
75.00	0.186	0.86	0.0075	016.7035	004.3232	037.766
76.00	0.171	0.86	0.0063	015.3565	003.7151	039.000
77.00	0.157	0.86	0.0053	014.0543	003.1615	040.206
78.00	0.142	0.86	0.0044	012.7521	002.6513	041.427
79.00	0.129	0.86	0.0036	011.5398	002.2019	042.572
80.00	0.115	0.86	0.0029	010.3274	001.7933	043.729
81.00	0.103	0.86	0.0023	009.2049	001.4400	044.808
82.00	0.090	0.86	0.0017	008.0823	001.1248	045.896
83.00	0.079	0.86	0.0013	007.0496	000.8591	046.903
84.00	0.067	0.86	0.0010	006.0169	000.6289	047.916
85.00	0.057	0.86	0.0007	005.1188	000.4461	048.801
86.00	0.047	0.86	0.0005	004.2208	000.2944	049.690
87.00	0.040	0.86	0.0003	003.5473	000.1856	050.358
88.00	0.032	0.86	0.0002	002.8737	000.1003	051.028
89.00	0.032	0.86	0.0002	002.8288	000.0494	051.072
90.00	0.031	0.86	0.0002	002.7839	000.0000	051.116

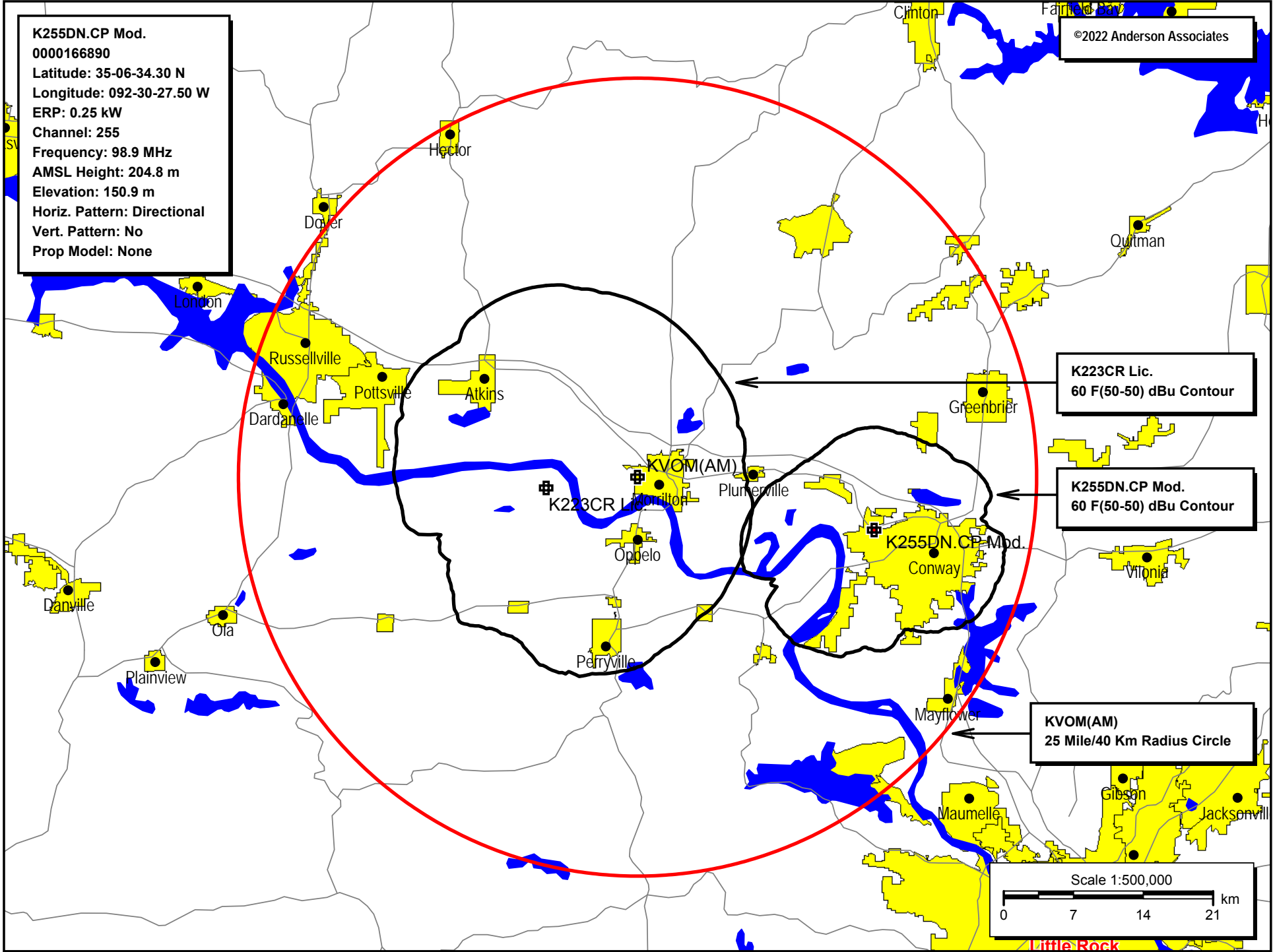
(1) The +40 121.2 F(50-10) dBu contour lowest point at the 270 degree azimuth = 5.9 meters over the only building within the interference contour.

The +40 121.2 F(50-10) dBu
Contour Lowest Point = 5.9 Meters

K255DN.CP Mod.

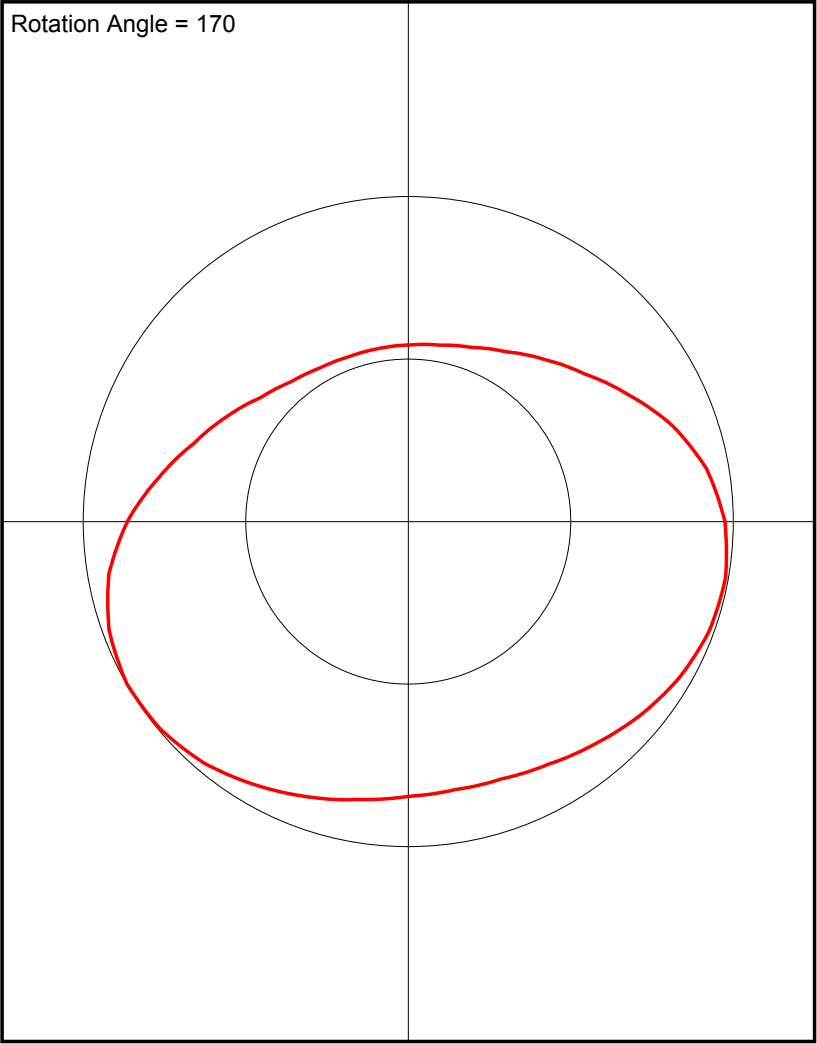


E-5 K255DN.CP Mod. 60 dBu Contour Plot



E-6 K255DN.CP Mod. Antenna Pattern

Azimuth (deg)	Relative Field
0.0	0.543
10.0	0.551
20.0	0.57
30.0	0.603
40.0	0.651
50.0	0.707
60.0	0.781
70.0	0.864
80.0	0.932
90.0	0.974
100.0	0.991
110.0	0.985
120.0	0.962
130.0	0.929
140.0	0.893
150.0	0.862
160.0	0.842
170.0	0.837
180.0	0.845
190.0	0.868
200.0	0.901
210.0	0.936
220.0	0.972
230.0	0.994
240.0	0.999
250.0	0.979
260.0	0.935
270.0	0.864
280.0	0.779
290.0	0.702
300.0	0.645
310.0	0.593
320.0	0.561
330.0	0.545
340.0	0.539
350.0	0.54



E-7 K255DN.CP Mod. HAAT Calculation

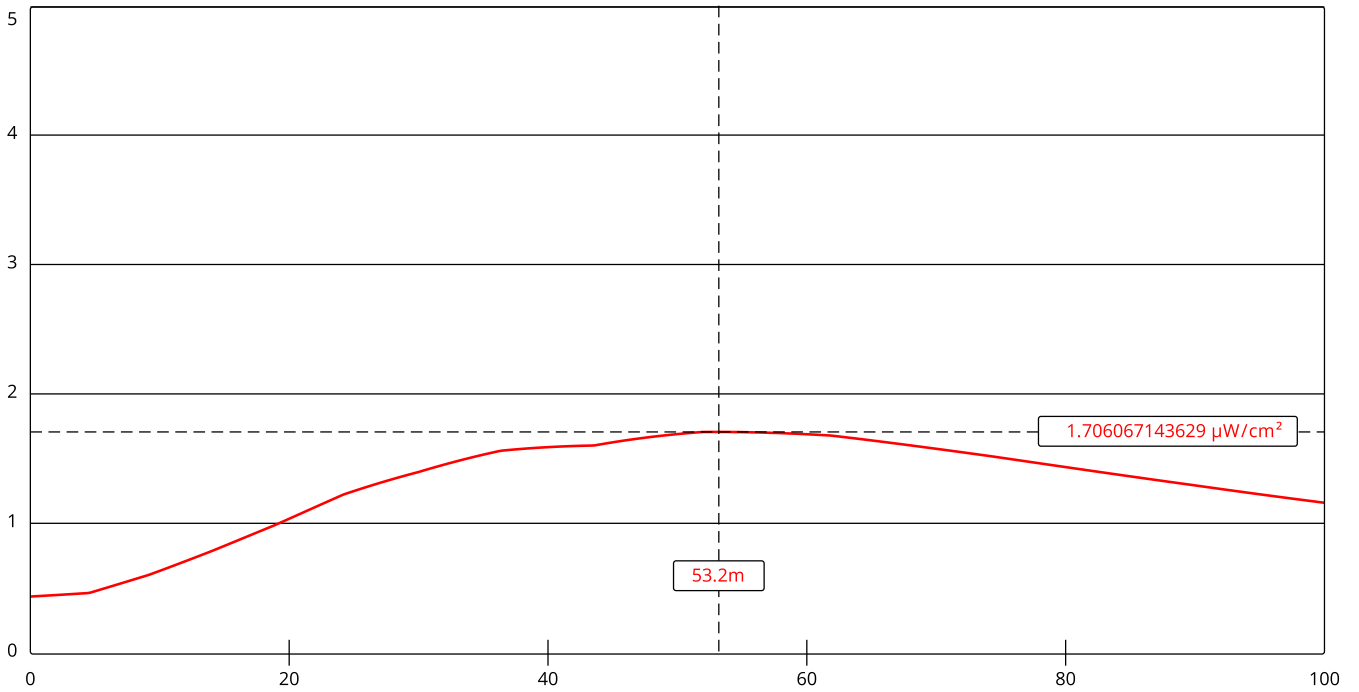
N. Lat. = 350634.3 W. Lng. = 923027.5
HAAT and Distance to Contour,
FCC, FM 2-10 Mi, 51 pts Method - FCC 30 Meter

K255DN/K2, East Arkansas Broadcasters, I, 0000166890
Azi. AV EL HAAT ERP kW 60-F(50-50)

000	88.1	116.7	0.0737	10.31
030	102.9	101.9	0.0909	10.17
060	97.4	107.4	0.1525	11.81
090	117.4	87.4	0.2372	11.91
120	90.0	114.8	0.2314	13.50
150	107.8	97.0	0.1858	11.80
180	101.1	103.7	0.1785	12.06
210	85.5	119.3	0.2190	13.56
240	129.2	75.6	0.2500	11.28
270	82.6	122.2	0.1866	13.18
300	101.2	103.6	0.1040	10.59
330	104.2	100.6	0.0743	09.62

Ave El= 100.62 M HAAT= 104.18 M AMSL= 204.8 M

E-8 K255DU.CP Mod. RF Calculation



Channel Selection	Channel 255 (98.9 MHz) ▾		
Antenna Type +	EPA Type 2: Opposed V Dipole ▾		
Height (m)	<input type="text" value="53.9"/>	Distance (m)	<input type="text" value="100"/>
ERP-H (W)	<input type="text" value="250"/>	ERP-V (W)	<input type="text" value="250"/>
Num of Elements	<input type="text" value="1"/>	Element Spacing (?)	<input type="text" value="1"/>
Num of Points	<input type="text" value="500"/>		

ASR Registration 1217182

Registration Detail

Reg Number	1217182	Status	Constructed
File Number	A1018795	Constructed	09/30/2000
EMI	No	Dismantled	
NEPA	No		

Antenna Structure

Structure Type TOWER - Free standing or Guyed Structure used for Commu

Location (in NAD83 Coordinates)

Lat/Long	35-06-34.3 N 092-30-27.5 W	Address	4647 CLEARWELL RD
City, State	Conway , AR		
Zip	72034	County	FAULKNER
Center of AM Array		Position of Tower in Array	

Heights (meters)

Elevation of Site Above Mean Sea Level	Overall Height Above Ground (AGL)
150.9	96.0
Overall Height Above Mean Sea Level	Overall Height Above Ground w/o Appurtenances
246.9	91.4

Painting and Lighting Specifications

FAA Chapters 4, 8, 13

Paint and Light in Accordance with FAA Circular Number 70/7460-1J

FAA Notification

FAA Study	00-ASW-2401-OE	FAA Issue Date	07/24/2000
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Owner & Contact Information

FRN	0003247087	Owner Entity Type	Limited Liability Company
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Owner

Crown Communications LLC
2000 Corporate Drive
Canonsburg , PA 15317

P: (724)416-2000
F:
E: Regulatory.Department@Crowncastle.com

Contact

Snyder , Don
2000 Corporate Drive
Canonsburg , PA 15317

P: (724)416-2470
F:
E: Don.Snyder@crowncastle.com

Last Action Status

Status	Constructed	Received	05/06/2016
Purpose	Admin Update	Entered	05/06/2016
Mode	Interactive		

Related Applications

05/06/2016	A1018795 - Admin Update (AU)
05/03/2015	A0961098 - Admin Update (AU)