

Technical Report W238AX.CP Minor Modification

This technical report is submitted for a minor modification to W238AX.CP, FCC file no. BPFT-20160129ACR. A move to channel 250 within 250 miles of the licensed facility is submitted. The translator is to serve as a fill-in facility to rebroadcast WIBQ(AM) 1230 kHz at Terre Haute, IN, FCC facility I.D. 136105.

W238AX.CP Modification Analysis:

An overlap study (exhibit E-1) shows the W238AX.CP modification to channel 250 is within the WBOW(FM) 253B third-adjacent protected contour. A tabulation of the 111.3 +40 dBu F(50-10) interfering contour (exhibit E-2) using the vertical elevation pattern of the Bext TFC2K-2 bay 0.75 wavelength-spaced antenna (exhibit E-3), shows the lowest point of the interfering contour = 83.8 meters above the site elevation, which will not reach any population, roads or buildings (exhibits E-4 and E-5). Exhibit E-6 shows the W238AX.CP modification is within 250 miles of the original licensed facility. The 60 dBu contour overlaps the current CP and is contained within the primary WIBQ(AM) 2.0 mV/m daytime contour and 25 mile/40 km radius (exhibit E-7).

Antenna System:

The W238AX.CP modification is to be relocated to an existing tower, ASR #1029950 at coordinates:

39 27 57N 087 24 12W NAD 27.

A Bext TFC2K-2 bay, 0.75 wavelength-spaced, nondirectional antenna will be mounted at a COR AGL of 148 meters, 299 meters AMSL and operate at 0.250 kW ERP.

RF Exposure Calculation:

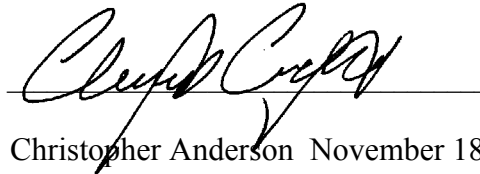
The RF contribution was calculated using the formula from the OET Bulletin 65:

$$S \text{ (RF in microwatts/cm}^2\text{)} = \frac{33.4 \times F^2 \times (H \text{ ERP} + V \text{ ERP in watts})}{R^2 \text{ (height of radiation center in meters}^2\text{)}}$$

Using a worst case vertical (F) factor of 1.0, the RF is calculated to be 0.783 $\mu\text{W}/\text{cm}^2$ to the ground, which is well below 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 W238AX.CP modification complies with all Commission rules and policies.



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E-1 W238AX.CP Mod. Overlap Study

REFERENCE		CH# 250D - 97.9 MHz, Pwr= 0.25 kW, HAAT= 140.0 M, COR= 299 M								DISPLAY DATES	
39 27 57.0 N.		Average Protected F(50-50)= 15.26 km								DATA 11-16-16	
87 24 12.0 W.		Omni-directional								SEARCH 11-16-16	
CH CITY	CALL	TYPE STATE	ANT STATE	AZI <--	DIST FILE #	LAT LNG	PWR(kW) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*
250D	W238AX Terre Haute	CP	_C_ IN	262.3 82.3	6.68 BPFT20160129ACR	39 27 28.0 87 28 50.0	0.250 152	49.7 289	14.9 Midwest	-58.5*	-59.2*
253B	WBOW Paris	LIC	_C_ IL	299.4 119.2	31.69 BMLH20110215AEO	39 36 20.0 87 43 32.0	50.000 152	6.2 360	66.9 Midwest	10.7	-36.9* (1)
250B	WGMR-FM Anderson	LIC	_C_ IN	64.9 245.9	159.21 BMLE20030908ADX	40 03 43.0 85 42 34.0	50.000 149	136.3 405	63.6 The Moody Bible Institute	8.0	29.4
249A	WCLS Spencer	LIC	_CX IN	112.3 292.7	70.62 BLH20051110ADE	39 13 22.0 86 38 40.0	6.000 100	46.4 321	29.5 Mid-america	9.9	18.2 Radio Of India
250A	WXEF Effingham	LIC	_CN IL	250.7 69.9	113.09 BLH19940908KB	39 07 25.0 88 38 28.0	6.000 95	85.8 272	27.6 Premier Broadcasting, Inc.	11.7	34.4
251B	WRAY-FM Princeton	LIC	_C_ IN	187.5 7.4	124.34 BLH19990528KC	38 21 25.0 87 35 25.0	50.000 133	75.8 268	62.4 Princeton Broadcasting Co.	33.1	28.1
248B	WHMS-FM Champaign	LIC	_CN IL	313.9 133.3	99.70 BLH19911022KB	40 05 04.0 88 14 53.0	50.000 109	5.2 328	59.3 D.w.s., Inc.	80.1	38.6
250D	W250BL Champaign	LIC	DC_ IL	314.4 133.8	105.51 BLFT20090317AAH	40 07 35.0 88 17 25.0	0.250 118	46.7 337	13.7 Saga Communications Of Ill	44.4	43.7
249D	W246CD Vincennes	CP	_C_ IN	185.4 5.3	84.71 BPFT20160119ACE	38 42 26.0 87 29 42.0	0.250 152	21.5 250	14.2 The Original Company, Inc.	47.6	47.0
251B1	WIBN Earl Park	LIC	_CX IN	358.0 178.0	123.14 BMLH20100810ABA	40 34 22.0 87 27 12.0	25.000 100	59.6 329	44.2 Brothers Broadcasting Corp	47.2	49.6
250A	WSLM-FM Salem	LIC	_CN IN	130.7 311.5	140.49 BLH19920528KA	38 38 07.0 86 10 37.0	3.000 100	78.2 330	25.0 Rebecca L. White	48.1	64.0

Terrain database is FCC 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= East 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.

- (1) The W238AX.CP Mod. +40 dBu F(50-10) contour within the WBOW(FM) 253B protected contour = 111.3 dBu and does not reach any population, roads or buildings, as shown in exhibits E-4 and E-5.

E-2 W238AX.CP Mod. +40 dBu Tabulation Within WBOW(FM) 253B

W238AX.CP Terre Haute, IN
74.1204(d) Showing
Translator or LPFM Maximum Licensed ERP = 0.25
Translator or LPFM Antenna Height AG = 148 Meters
W238AX.CP Antenna Model = BEXT TFC2K-2-75%

Protected Station's Contour = 71.32665 dBu
Translator's or LPFM's full Interference contour 111.32665

Review Azimuth = 0 Degrees True
Relative Field on the horizon at Review Azimuth = 1.000
Translator/LPFM ERP on the horizon at Review Azimuth = 0.25 kW
Distance between stations = 31.7 km
Protected Station= WBOW, 50 kW, 360 M Meters COR AMSL

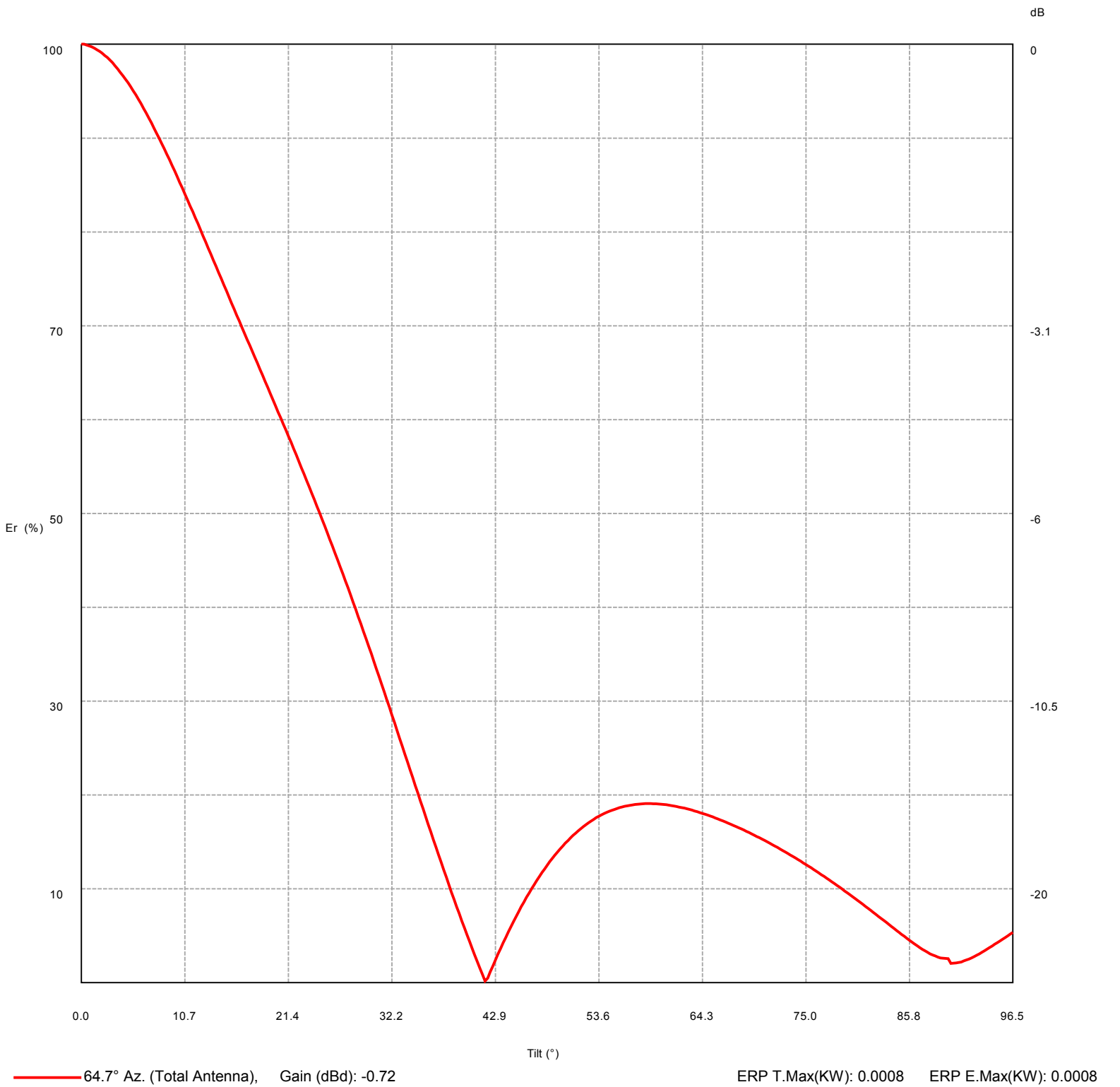
Depression Angle From Horizon(Deg)	Vertical Relative Field	Horizontal Relative Field	ERP (kw)	Dist to IX Contour Along Dep. Angle (m)	Dist to IX Contour From Tower Base (m)	Height IX Above Ground (m)
00.00	1.0	1.0	0.2500	301.0492	301.0492	148.000
01.00	0.997	1.0	0.2485	300.1461	300.1004	142.762
02.00	0.99	1.0	0.2450	298.0387	297.8572	137.599
03.00	0.983	1.0	0.2416	295.9314	295.5258	132.512
04.00	0.97	1.0	0.2352	292.0178	291.3064	127.630
05.00	0.955	1.0	0.2280	287.5020	286.4080	122.943
06.00	0.942	1.0	0.2218	283.5884	282.0348	118.357
07.00	0.921	1.0	0.2121	277.2663	275.1996	114.210
08.00	0.9	1.0	0.2025	270.9443	268.3075	110.292
09.00	0.877	1.0	0.1923	264.0202	260.7696	106.698
10.00	0.859	1.0	0.1845	258.6013	254.6726	103.094
11.00	0.834	1.0	0.1739	251.0750	246.4621	100.093
12.00	0.809	1.0	0.1636	243.5488	238.2267	097.363
13.00	0.786	1.0	0.1544	236.6247	230.5600	094.771
14.00	0.76	1.0	0.1444	228.7974	222.0011	092.649
15.00	0.737	1.0	0.1358	221.8733	214.3131	090.575
16.00	0.715	1.0	0.1276	215.0997	206.7671	088.711
17.00	0.692	1.0	0.1197	208.3261	199.2232	087.091
18.00	0.667	1.0	0.1112	200.7998	190.9720	085.949
19.00	0.641	1.0	0.1027	192.9725	182.4591	085.174
20.00	0.615	1.0	0.0946	185.1453	173.9796	084.677
21.00	0.595	1.0	0.0885	179.1243	167.2269	083.808 (1)
22.00	0.569	1.0	0.0809	171.2970	158.8238	083.831
23.00	0.542	1.0	0.0734	163.1687	150.1976	084.245
24.00	0.515	1.0	0.0663	155.0403	141.6364	084.939
25.00	0.494	1.0	0.0610	148.7183	134.7846	085.149
26.00	0.465	1.0	0.0541	139.9879	125.8203	086.633
27.00	0.436	1.0	0.0475	131.2575	116.9512	088.410
28.00	0.413	1.0	0.0426	124.3333	109.7798	089.629
29.00	0.382	1.0	0.0365	115.0008	100.5820	092.247
30.00	0.35	1.0	0.0306	105.3672	091.2507	095.316
31.00	0.318	1.0	0.0253	095.7336	082.0598	098.694
32.00	0.293	1.0	0.0215	088.2074	074.8041	101.257
33.00	0.26	1.0	0.0169	078.2728	065.6451	105.370
34.00	0.227	1.0	0.0129	068.3382	056.6549	109.786
35.00	0.194	1.0	0.0094	058.4036	047.8414	114.501
36.00	0.169	1.0	0.0071	050.8773	041.1606	118.095
37.00	0.136	1.0	0.0046	040.9427	032.6983	123.360
38.00	0.104	1.0	0.0027	031.3091	024.6719	128.724
39.00	0.081	1.0	0.0016	024.3850	018.9507	132.654
40.00	0.051	1.0	0.0007	015.3535	011.7615	138.131
41.00	0.022	1.0	0.0001	006.6231	004.9985	143.655
42.00	0.005	1.0	0.0000	001.5052	001.1186	146.993
43.00	0.024	1.0	0.0001	007.2252	005.2842	143.072
44.00	0.048	1.0	0.0006	014.4504	010.3947	137.962
45.00	0.071	1.0	0.0013	021.3745	015.1141	132.886
46.00	0.091	1.0	0.0021	027.3955	019.0305	128.293
47.00	0.105	1.0	0.0028	031.6102	021.5581	124.882
48.00	0.121	1.0	0.0037	036.4270	024.3744	120.929
49.00	0.132	1.0	0.0044	039.7385	026.0708	118.009
50.00	0.149	1.0	0.0056	044.8563	028.8331	113.638
51.00	0.157	1.0	0.0062	047.2647	029.7447	111.268
52.00	0.166	1.0	0.0069	049.9742	030.7672	108.620
53.00	0.174	1.0	0.0076	052.3826	031.5246	106.165
54.00	0.18	1.0	0.0081	054.1889	031.8514	104.160
55.00	0.184	1.0	0.0085	055.3931	031.7722	102.625
56.00	0.187	1.0	0.0087	056.2962	031.4804	101.328
57.00	0.189	1.0	0.0089	056.8983	030.9890	100.281
58.00	0.19	1.0	0.0090	057.1994	030.3110	099.492
59.00	0.191	1.0	0.0091	057.5004	029.6149	098.713
60.00	0.19	1.0	0.0090	057.1994	028.5997	098.464
61.00	0.189	1.0	0.0089	056.8983	027.5848	098.236
62.00	0.187	1.0	0.0087	056.2962	026.4295	098.293
63.00	0.185	1.0	0.0086	055.6941	025.2846	098.376
64.00	0.181	1.0	0.0082	054.4899	023.8868	099.025
65.00	0.178	1.0	0.0079	053.5868	022.6467	099.434
66.00	0.174	1.0	0.0076	052.3826	021.3059	100.146
67.00	0.17	1.0	0.0072	051.1784	019.9970	100.890
68.00	0.165	1.0	0.0068	049.6731	018.6079	101.944
69.00	0.16	1.0	0.0064	048.1679	017.2618	103.031
70.00	0.156	1.0	0.0061	046.9637	016.0625	103.869

Depression Angle From Horizon(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)
71.00	0.15	1.0	0.0056	045.1574	014.7018	105.303
72.00	0.144	1.0	0.0052	043.3511	013.3962	106.771
73.00	0.139	1.0	0.0048	041.8458	012.2345	107.983
74.00	0.133	1.0	0.0044	040.0395	011.0364	109.512
75.00	0.126	1.0	0.0040	037.9322	009.8176	111.360
76.00	0.119	1.0	0.0035	035.8249	008.6668	113.239
77.00	0.113	1.0	0.0032	034.0186	007.6525	114.853
78.00	0.105	1.0	0.0028	031.7105	006.5930	116.982
79.00	0.098	1.0	0.0024	029.4025	005.6103	119.138
80.00	0.09	1.0	0.0020	027.0944	004.7049	121.317
81.00	0.083	1.0	0.0017	024.9871	003.9088	123.321
82.00	0.075	1.0	0.0014	022.5787	003.1423	125.641
83.00	0.066	1.0	0.0011	019.8692	002.4215	128.279
84.00	0.06	1.0	0.0009	018.0630	001.8881	130.036
85.00	0.051	1.0	0.0007	015.3535	001.3381	132.705
86.00	0.043	1.0	0.0005	012.9451	000.9030	135.086
87.00	0.035	1.0	0.0003	010.5367	000.5514	137.478
88.00	0.031	1.0	0.0002	009.3325	000.3257	138.673
89.00	0.026	1.0	0.0002	007.8273	000.1366	140.174
90.00	0.02	1.0	0.0001	006.0210	000.0000	141.979

(1) The W238AX.CP Mod. +40 dBu 111.33 dBu F(50-10) contour lowest point above the site elevation = 83.8 meters.

E-3 Bext TFC2K-2 0.75 Wavelength Vertical Elevation Pattern and Tabulation

Vertical diagram at an azimuth of 64.7°

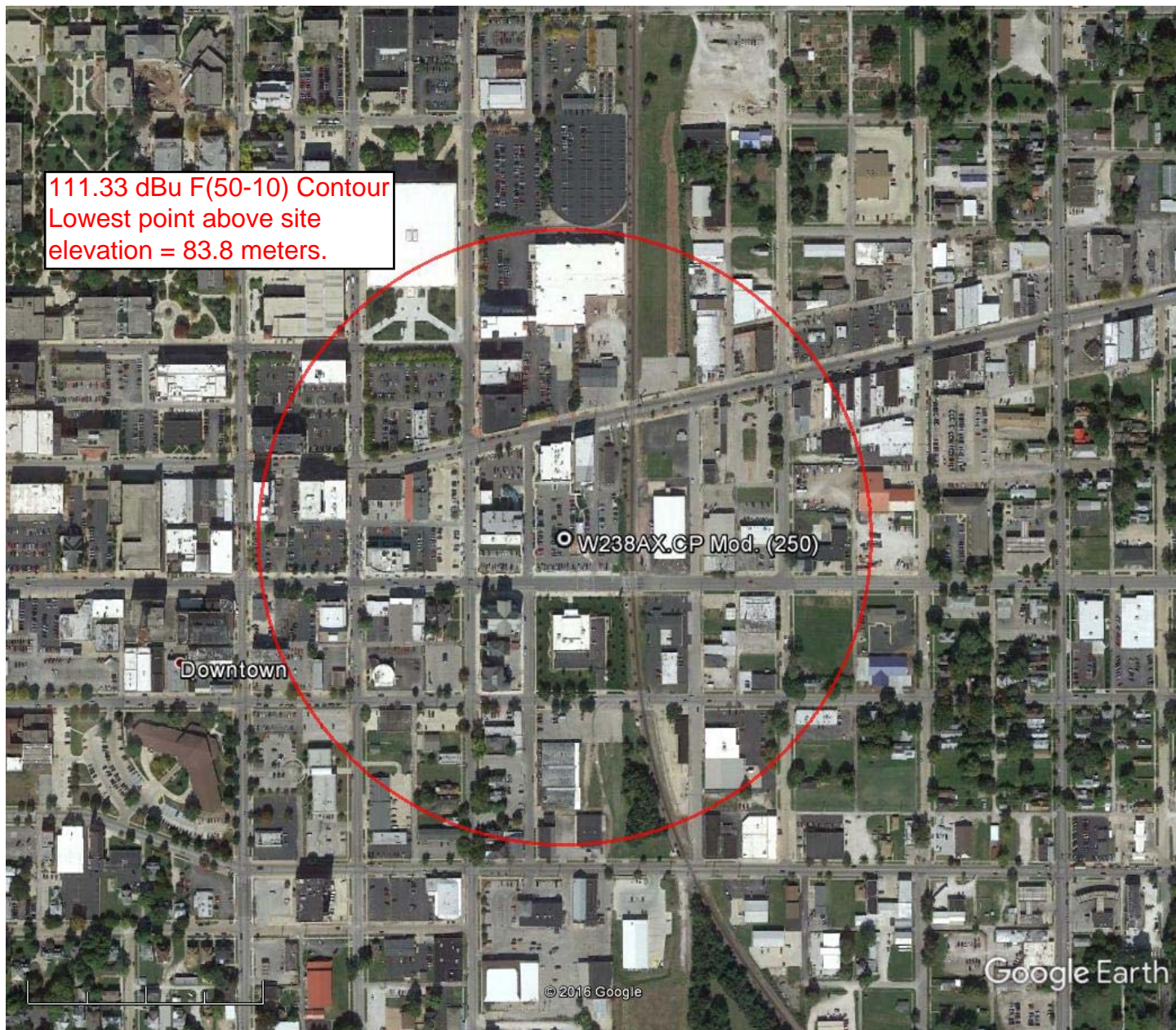


Vertical diagram at an azimuth of 64.7°

Dep (°)	Er (%)	ERP (W)	Dep (°)	Er (%)	ERP (W)	Dep (°)	Er (%)	ERP (W)
0.0	100.1	0.8	16.1	71.1	0.4	32.2	28.5	0.1
0.3	100.0	0.8	16.3	70.5	0.4	32.4	27.7	0.1
0.5	99.9	0.8	16.6	69.8	0.4	32.7	26.8	0.1
0.8	99.8	0.8	16.9	69.2	0.4	33.0	26.0	0.1
1.1	99.7	0.8	17.2	68.5	0.4	33.2	25.2	0.1
1.3	99.6	0.8	17.4	67.9	0.4	33.5	24.3	0.1
1.6	99.4	0.8	17.7	67.3	0.4	33.8	23.5	0.0
1.9	99.2	0.8	18.0	66.7	0.4	34.0	22.7	0.0
2.1	99.0	0.8	18.2	66.0	0.4	34.3	21.9	0.0
2.4	98.8	0.8	18.5	65.4	0.4	34.6	21.0	0.0
2.7	98.6	0.8	18.8	64.7	0.4	34.8	20.2	0.0
2.9	98.3	0.8	19.0	64.1	0.3	35.1	19.4	0.0
3.2	98.0	0.8	19.3	63.4	0.3	35.4	18.5	0.0
3.5	97.7	0.8	19.6	62.8	0.3	35.6	17.7	0.0
3.8	97.4	0.8	19.8	62.1	0.3	35.9	16.9	0.0
4.0	97.0	0.8	20.1	61.5	0.3	36.2	16.1	0.0
4.3	96.6	0.8	20.4	60.8	0.3	36.4	15.2	0.0
4.6	96.3	0.8	20.6	60.2	0.3	36.7	14.4	0.0
4.8	95.9	0.8	20.9	59.5	0.3	37.0	13.6	0.0
5.1	95.5	0.8	21.2	58.9	0.3	37.3	12.8	0.0
5.4	95.1	0.8	21.4	58.2	0.3	37.5	12.0	0.0
5.6	94.6	0.8	21.7	57.6	0.3	37.8	11.2	0.0
5.9	94.2	0.8	22.0	56.9	0.3	38.1	10.4	0.0
6.2	93.7	0.7	22.2	56.2	0.3	38.3	9.6	0.0
6.4	93.2	0.7	22.5	55.6	0.3	38.6	8.9	0.0
6.7	92.7	0.7	22.8	54.9	0.3	38.9	8.1	0.0
7.0	92.1	0.7	23.0	54.2	0.2	39.1	7.3	0.0
7.2	91.6	0.7	23.3	53.5	0.2	39.4	6.6	0.0
7.5	91.1	0.7	23.6	52.8	0.2	39.7	5.8	0.0
7.8	90.5	0.7	23.9	52.2	0.2	39.9	5.1	0.0
8.0	90.0	0.7	24.1	51.5	0.2	40.2	4.4	0.0
8.3	89.4	0.7	24.4	50.8	0.2	40.5	3.6	0.0
8.6	88.9	0.7	24.7	50.1	0.2	40.7	2.9	0.0
8.8	88.3	0.7	24.9	49.4	0.2	41.0	2.2	0.0
9.1	87.7	0.7	25.2	48.7	0.2	41.3	1.5	0.0
9.4	87.1	0.6	25.5	47.9	0.2	41.5	0.8	0.0
9.6	86.5	0.6	25.7	47.2	0.2	41.8	0.2	0.0
9.9	85.9	0.6	26.0	46.5	0.2	42.1	0.5	0.0
10.2	85.3	0.6	26.3	45.8	0.2	42.3	1.1	0.0
10.5	84.7	0.6	26.5	45.0	0.2	42.6	1.8	0.0
10.7	84.0	0.6	26.8	44.3	0.2	42.9	2.4	0.0
11.0	83.4	0.6	27.1	43.6	0.2	43.1	3.0	0.0
11.3	82.8	0.6	27.3	42.8	0.2	43.4	3.6	0.0
11.5	82.1	0.6	27.6	42.1	0.1	43.7	4.2	0.0
11.8	81.5	0.6	27.9	41.3	0.1	44.0	4.8	0.0
12.1	80.9	0.6	28.1	40.6	0.1	44.2	5.4	0.0
12.3	80.2	0.5	28.4	39.8	0.1	44.5	6.0	0.0
12.6	79.6	0.5	28.7	39.0	0.1	44.8	6.5	0.0
12.9	78.9	0.5	28.9	38.2	0.1	45.0	7.1	0.0
13.1	78.3	0.5	29.2	37.4	0.1	45.3	7.6	0.0
13.4	77.6	0.5	29.5	36.6	0.1	45.6	8.1	0.0
13.7	77.0	0.5	29.7	35.8	0.1	45.8	8.6	0.0
13.9	76.3	0.5	30.0	35.0	0.1	46.1	9.1	0.0
14.2	75.7	0.5	30.3	34.2	0.1	46.4	9.5	0.0
14.5	75.0	0.5	30.6	33.4	0.1	46.6	10.0	0.0
14.7	74.4	0.5	30.8	32.6	0.1	46.9	10.5	0.0
15.0	73.7	0.5	31.1	31.8	0.1	47.2	10.9	0.0
15.3	73.1	0.5	31.4	31.0	0.1	47.4	11.3	0.0
15.5	72.4	0.4	31.6	30.2	0.1	47.7	11.7	0.0
15.8	71.8	0.4	31.9	29.3	0.1	48.0	12.1	0.0

Vertical diagram at an azimuth of 64.7°

Dep (°)	Er (%)	ERP (W)	Dep (°)	Er (%)	ERP (W)	Dep (°)	Er (%)	ERP (W)
48.2	12.5	0.0	64.3	18.0	0.0	80.4	8.8	0.0
48.5	12.9	0.0	64.6	17.9	0.0	80.7	8.5	0.0
48.8	13.2	0.0	64.9	17.8	0.0	80.9	8.3	0.0
49.0	13.6	0.0	65.1	17.8	0.0	81.2	8.1	0.0
49.3	13.9	0.0	65.4	17.7	0.0	81.5	7.9	0.0
49.6	14.2	0.0	65.7	17.6	0.0	81.7	7.7	0.0
49.8	14.6	0.0	65.9	17.4	0.0	82.0	7.5	0.0
50.1	14.9	0.0	66.2	17.3	0.0	82.3	7.3	0.0
50.4	15.1	0.0	66.5	17.2	0.0	82.5	7.1	0.0
50.7	15.4	0.0	66.7	17.1	0.0	82.8	6.9	0.0
50.9	15.7	0.0	67.0	17.0	0.0	83.1	6.6	0.0
51.2	15.9	0.0	67.3	16.9	0.0	83.3	6.4	0.0
51.5	16.2	0.0	67.5	16.8	0.0	83.6	6.2	0.0
51.7	16.4	0.0	67.8	16.6	0.0	83.9	6.0	0.0
52.0	16.6	0.0	68.1	16.5	0.0	84.2	5.8	0.0
52.3	16.8	0.0	68.3	16.4	0.0	84.4	5.6	0.0
52.5	17.0	0.0	68.6	16.3	0.0	84.7	5.4	0.0
52.8	17.2	0.0	68.9	16.1	0.0	85.0	5.1	0.0
53.1	17.4	0.0	69.1	16.0	0.0	85.2	4.9	0.0
53.3	17.6	0.0	69.4	15.9	0.0	85.5	4.7	0.0
53.6	17.7	0.0	69.7	15.7	0.0	85.8	4.5	0.0
53.9	17.9	0.0	69.9	15.6	0.0	86.0	4.3	0.0
54.1	18.0	0.0	70.2	15.4	0.0	86.3	4.1	0.0
54.4	18.1	0.0	70.5	15.3	0.0	86.6	3.9	0.0
54.7	18.3	0.0	70.8	15.2	0.0	86.8	3.7	0.0
54.9	18.4	0.0	71.0	15.0	0.0	87.1	3.5	0.0
55.2	18.5	0.0	71.3	14.9	0.0	87.4	3.4	0.0
55.5	18.6	0.0	71.6	14.7	0.0	87.6	3.2	0.0
55.7	18.6	0.0	71.8	14.6	0.0	87.9	3.1	0.0
56.0	18.7	0.0	72.1	14.4	0.0	88.2	2.9	0.0
56.3	18.8	0.0	72.4	14.2	0.0	88.4	2.8	0.0
56.5	18.8	0.0	72.6	14.1	0.0	88.7	2.7	0.0
56.8	18.9	0.0	72.9	13.9	0.0	89.0	2.6	0.0
57.1	18.9	0.0	73.2	13.8	0.0	89.2	2.6	0.0
57.4	19.0	0.0	73.4	13.6	0.0	89.5	2.6	0.0
57.6	19.0	0.0	73.7	13.4	0.0	89.8	2.5	0.0
57.9	19.0	0.0	74.0	13.3	0.0	90.0	2.0	0.0
58.2	19.1	0.0	74.2	13.1	0.0	90.3	2.1	0.0
58.4	19.1	0.0	74.5	12.9	0.0	90.6	2.1	0.0
58.7	19.1	0.0	74.8	12.8	0.0	90.9	2.1	0.0
59.0	19.1	0.0	75.0	12.6	0.0	91.1	2.2	0.0
59.2	19.1	0.0	75.3	12.4	0.0	91.4	2.3	0.0
59.5	19.1	0.0	75.6	12.2	0.0	91.7	2.4	0.0
59.8	19.0	0.0	75.8	12.0	0.0	91.9	2.5	0.0
60.0	19.0	0.0	76.1	11.9	0.0	92.2	2.6	0.0
60.3	19.0	0.0	76.4	11.7	0.0	92.5	2.8	0.0
60.6	19.0	0.0	76.6	11.5	0.0	92.7	2.9	0.0
60.8	18.9	0.0	76.9	11.3	0.0	93.0	3.1	0.0
61.1	18.9	0.0	77.2	11.1	0.0	93.3	3.2	0.0
61.4	18.8	0.0	77.5	10.9	0.0	93.5	3.4	0.0
61.6	18.8	0.0	77.7	10.8	0.0	93.8	3.6	0.0
61.9	18.7	0.0	78.0	10.6	0.0	94.1	3.7	0.0
62.2	18.6	0.0	78.3	10.4	0.0	94.3	3.9	0.0
62.4	18.6	0.0	78.5	10.2	0.0	94.6	4.1	0.0
62.7	18.5	0.0	78.8	10.0	0.0	94.9	4.3	0.0
63.0	18.5	0.0	79.1	9.8	0.0	95.1	4.4	0.0
63.2	18.4	0.0	79.3	9.6	0.0	95.4	4.6	0.0
63.5	18.3	0.0	79.6	9.4	0.0	95.7	4.8	0.0
63.8	18.2	0.0	79.9	9.2	0.0	95.9	5.0	0.0
64.1	18.1	0.0	80.1	9.0	0.0	96.2	5.2	0.0



Google Earth

feet
meters | 1000 500





The W238AX.CP Mod. +40
111.3 dBu F(50-10) Contour
Lowest Point = 83.8 meters.

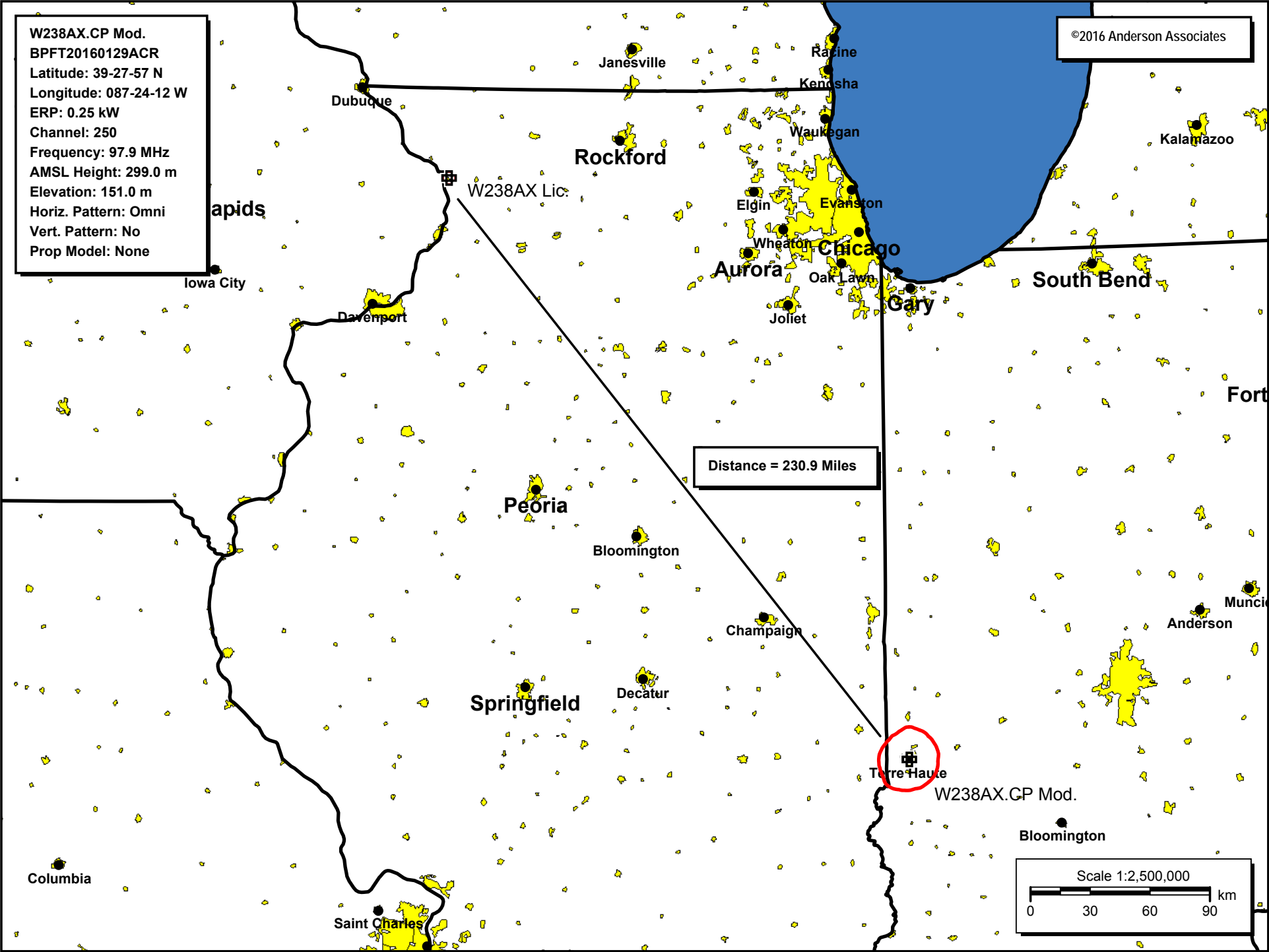
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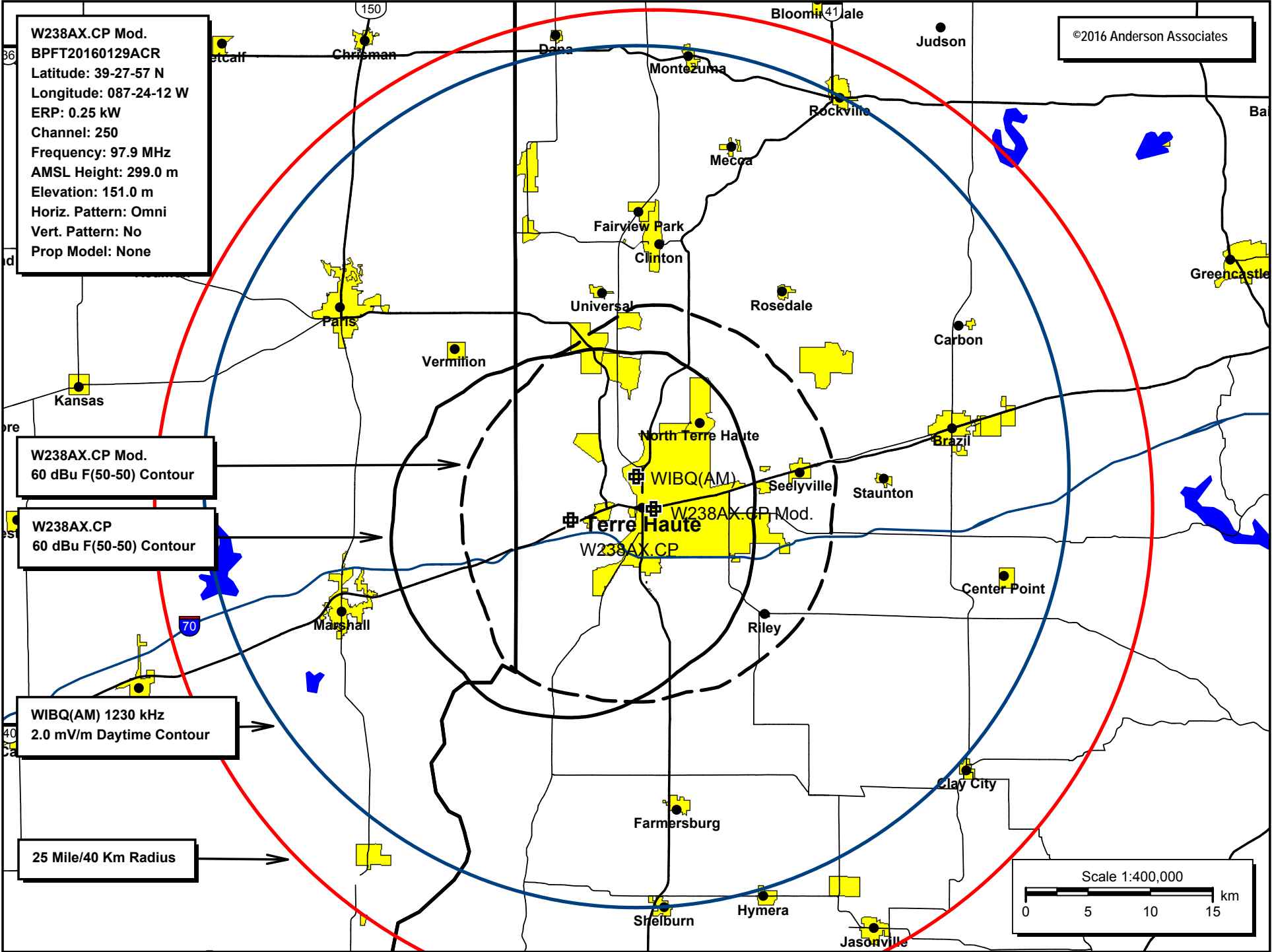
Google Earth



E-6 W238AX.CP Mod. Distance Plot



E-7 W238AX.CP Mod. 60 dBu Contour Plot



ASR Registration 1029950

[Map Registration](#)

Registration Detail

Reg Number	1029950	Status	Constructed
File Number	A0810926	Constructed	01/01/1954
EMI	No	Dismantled	
NEPA	No		

Antenna Structure

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

Location (in NAD83 Coordinates)

Lat/Long	39-27-57.0 N 087-24-12.0 W	Address	918 OHIO ST
City, State	TERRE HAUTE , IN		
Zip	47807	County	VIGO
Center of AM Array		Position of Tower in Array	

Heights (meters)

Elevation of Site Above Mean Sea Level	Overall Height Above Ground (AGL)
150.8	167.6
Overall Height Above Mean Sea Level	Overall Height Above Ground w/o Appurtenances
318.4	144.8

Painting and Lighting Specifications

FCC Paragraphs 1, 3, 4, 13, 21

FAA Notification

FAA Study	FAA Issue Date
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Owner & Contact Information

FRN	0022313886	Owner Entity Type	Limited Partnership
Assignor FRN	0011294410	Assignor ID	L00937635

Owner

Emmis Indiana Broadcasting, L.P.
Attention To: Legal Department
One Emmis Plaza
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