

Technical Exhibit
309.7m RC-AMSL 128.3m Highest Radial
104m AGL
13 Watts

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Interference Compliance

Contour protection, as required by C.F.R. Section 74.1204 to co-channel and first, second and third adjacent channels is demonstrated herein by Figure 1.

The instant application seeks a waiver of the second adjacent minimum distance separation requirement of 47 C.F.R. Section 74.1204. The proposed facility will not interfere with any authorized radio service, specifically, WLBH-FM, a second adjacent station.

Figure 2-1 shows a tabular output of the interfering 96 dBu F(50,10) contour of the instant application utilizing a two bay three-fourths wave spaced low power antenna. The closest the contour comes to the ground is 14.1m at approximately 247m from the tower. There are no tall buildings within the area. Figure 2-2 shows a graphic output.

The 60 dBu F(50,50) of the instant application overlaps the same contour of the construction permit (see Figure 3).

RF Electromagnetic Exposure Analysis

The proposed facility will not have a significant environmental impact and complies with maximum permissible radio frequency electromagnetic exposure limits for a controlled environment, in accordance with OET Bulletin No. 65.

Using a worst case assumption of maximum downward radiation ($F=1.0$) the RF exposure at 2m above ground level is $0.08342 \mu\text{W}/\text{cm}^2$ or less than 0.1% of the controlled standard. This is inconsequential when added to existing RF on the tower.

The site is fenced and RF warning signs are posted. The power will be reduced or shut off to allow necessary access to the tower.

Figure 1

Minor Modification of Construction Permit											
REFERENCE		CH#		243D		- 96.5 MHz, Pwr= 0.013 kW, HAAT= 107.0 M, COR= 309.7 M		Average Protected F(50-50)= 6.45 km		Omni-directional	
39 48 34.9 N. 88 59 30.7 W.										DISPLAY DATES DATA 02-09-15 SEARCH 02-12-15	
CH CITY	CALL	TYPE STATE	ANT STATE	AZI <--	DI ST FILE #	LAT LNG	PWR(kW) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT* (in km)
243D Decatur	W243DF	CP IL	_C_ IL	296.8 116.7	10.28 BNPFT20130821AAP	39 51 04.9 89 05 57.7	0.080 46	21.6 236	5.5 St. Mary's Hospital, Decat	-17.6*	-17.9*
245B Mattoon	WLBH-FM	LIC IL	_CN IL	121.2 301.6	62.34 BLH6155	39 31 02.0 88 22 13.0	50.000 152	6.2 361	66.7 Mattoon Broadcasting Compa	49.8	-4.9*
240A Clinton	WEZC	LIC IL	NCX IL	4.2 184.3	31.83 BMLH20080304ACD	40 05 43.0 88 57 51.0	6.000 94	2.7 308	27.7 Kaskaskia Broadcasting, In	22.6	3.9
242A Atlanta	WLCN	LIC IL	NCX IL	334.4 154.3	53.57 BLH20070926AOE	40 14 39.0 89 15 51.0	6.000 81	40.9 276	26.5 Km Radio Of Atlanta, L.I.c	6.3	18.2
243D Mattoon	W243AM	LIC IL	_C_ IL	119.8 300.2	62.76 BMLFT20110601AIQ	39 31 40.0 88 21 23.0	0.140 82	35.5 288	10.5 The Cromwell Group, Inc. O	20.9	31.3
244A Virden	WCVS-FM	LIC IL	_CX IL	254.7 74.2	72.96 BLH20040414ABX	39 38 02.0 89 48 50.0	6.000 100	45.0 290	29.1 Neuhoff Media Springfield,	21.1	34.2
242D Taylorville	W242BZ	LIC IL	_C_ IL	212.5 32.3	47.05 BMLFT20140930APB	39 27 08.0 89 17 10.0	0.250 97	19.2 286	12.9 Miller Communications, Inc	21.3	25.1
244A Normal	WIHN	LIC IL	_CN IL	357.3 177.2	74.17 BLH19920430KG	40 28 34.0 89 02 02.0	3.900 125	44.3 362	29.0 Connoisseur Media Li censes	23.4	35.9
243D Williamsville	W243CR	LIC IL	_C_ IL	285.4 105.0	51.94 BLFT20110318AEE	39 55 55.0 89 34 46.0	0.040 44	15.5 218	4.7 Covenant Network	29.8	24.2
243B Lafayette	WAZY-FM	LIC IN	_CN IN	67.4 248.6	170.57 BLH7632	40 23 02.0 87 07 55.0	50.000 152	137.7 352	65.0 Artistic Media Partners, I	26.4	74.8
243A Farmington	WZPN	LIC IL	NCN IL	321.7 141.1	122.35 BLH19971113KC	40 40 10.0 89 53 31.0	4.300 115	86.6 313	29.6 Advanced Media Partners, L	29.3	71.3
246D Clinton	W246BD	LIC IL	_C_ IL	5.6 185.6	38.73 BLFT20101116ACR	40 09 23.2 88 56 51.5	0.038 57	0.4 277	6.3 Good News Radio, Inc.	31.8	32.2
246D Lincoln	W246CO	CP IL	_C_ IL	317.9 137.6	49.85 BNPFT20130807ACE	40 08 30.0 89 23 07.0	0.055 57	0.5 232	6.3 Cornerstone Community Radi	42.9	43.3
241D Williamsville	W243CR	CP IL	_C_ IL	272.6 92.2	51.58 BPFT20130718AHT	39 49 44.0 89 35 43.7	0.027	0.4 262	6.9 Covenant Network	44.3	44.4
243D Effingham	W243DI	CP IL	_C_ IL	153.1 333.4	82.02 BNPFT20130828ADJ	39 09 03.0 88 33 42.0	0.019 98	20.7 275	6.2 Community Broadcasting, In	55.3	56.0
241D Williamsville	W243CR	APP IL	_C_ IL	270.6 90.1	64.12 BMPFT20150205AEM	39 48 47.8 89 44 33.6	0.035	0.4 231	5.9 Covenant Network	56.8	58.0
241D Williamsville	W243CR	APP IL	_C_ IL	270.6 90.1	64.12 BMPFT20150205AEM	39 48 47.8 89 44 33.6	0.035	0.4 231	5.9 Covenant Network	56.8	58.0
241A Rantoul	WQQB	LIC IL	ZCN IL	51.8 232.2	74.86 BLH19930316KA	40 13 27.0 88 17 56.0	3.800 123	1.2 346	14.8 S.J. Broadcasting, Lic	67.1	58.3
241D Charleston	W241BU	LIC IL	_C_ IL	127.7 308.1	76.33 BLFT20130729AKD	39 23 16.0 88 17 20.0	0.250 122	1.1 320	12.5 Bayard H. Walters	69.0	63.5
242C1 St. Louis	KNOU	CP MO	NCX MO	220.3 39.5	179.07 BPH20120228ACX	38 34 27.7 90 19 31.5	92.000 309	104.9 462	72.3 Emmi s Radi o Li cense, Lic	67.5	97.5
242C1 St. Louis	KNOU	LIC MO	NCX MO	220.3 39.5	179.13 BMLH20061011ADI	38 34 24.0 90 19 30.0	80.000 313	103.4 466	71.2 Emmi s Radi o Li cense, Lic	69.2	98.7
240A Carlinville	WOLG	LIC IL	_C_ IL	231.4 50.8	100.86 BLED20000709AAA	39 14 25.0 89 54 27.0	6.000 99	2.8 287	28.6 Covenant Network	91.3	71.4
243A Marseilles	WLWF	LIC IL	_CN IL	5.1 185.3	167.39 BLH19990608KC	41 18 33.0 88 48 45.0	2.500 100	70.8 282	21.8 La Salle County Broadcasti	90.1	123.9
244A Carlyle	WCXO	LIC IL	ZCN IL	194.5 14.2	134.22 BLH19990621KA	38 38 24.0 89 22 40.0	2.100 158	29.9 293	20.3 Clinton County Broadcastin	98.0	102.0
242A Farmersburg	NEW	CP IN	ZCX IN	114.2 295.2	151.04 BNPED20100226AAG	39 14 33.0 87 23 29.0	6.000 100	45.0 264	29.1 Community Broadcasting, In	99.8	113.0

CH CITY	CALL	TYPE STATE	ANT	AZI <--	DIST FILE #	LAT LNG	PWR(kW) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	Page # 2 *IN* (Overlap in km)	*OUT*
240A Seelyville	WDKE	LIC_CN IN		100.4 281.4	138.52 BLH19961002KE	39 34 29.0 87 24 06.0	4.100 121	2.4 288	25.5 Midwest	129.6 Communications, Inc	112.6
245D Beardstown	W245BZ	CP_C_ IL		280.6 99.7	121.74 BNPFT20130327AJG	40 00 11.0 90 23 49.0	0.250 10	1.1 159	7.1 Cornerstone	113.7 Community Radi	114.4
244A Colchester	WGNX	LIC_NC_ IL		294.4 113.3	161.79 BLH20070823ADA	40 23 54.0 90 43 55.0	1.800 100	31.5 293	21.3 Patricia Van Zandt	123.5	131.1
246C1 Florissant	KFTK	LIC_CN MO		233.1 52.0	188.29 BLH19851127KC	38 46 45.0 90 43 43.0	100.000 171	8.1 334	63.3 Emmis Radio License, LLC	173.4	124.7

Terrain database is NED 03 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.

Figure 2
Minor Modification of Construction Permit

FMCommander Single Allocation Study - 02-23-2015 - NGDC 30 SEC
W243DF.A's Overlaps (In= 49.75 km, Out= -5.09 km)

W243DF.A CH 243 D
Lat= 39 48 34.9, Lng= 88 59 30.7
0.013 kW 110.8 M HAAT, 309.7 M COR
Prot.= 60 dBu, Intef.= 94 dBu

WLBH-FM CH 245 B BLH6155
Lat= 39 31 02.0, Lng= 88 22 13.0
50.0 kW 152 M HAAT, 361 M COR
Prot.= 54 dBu, Intef.= 100 dBu

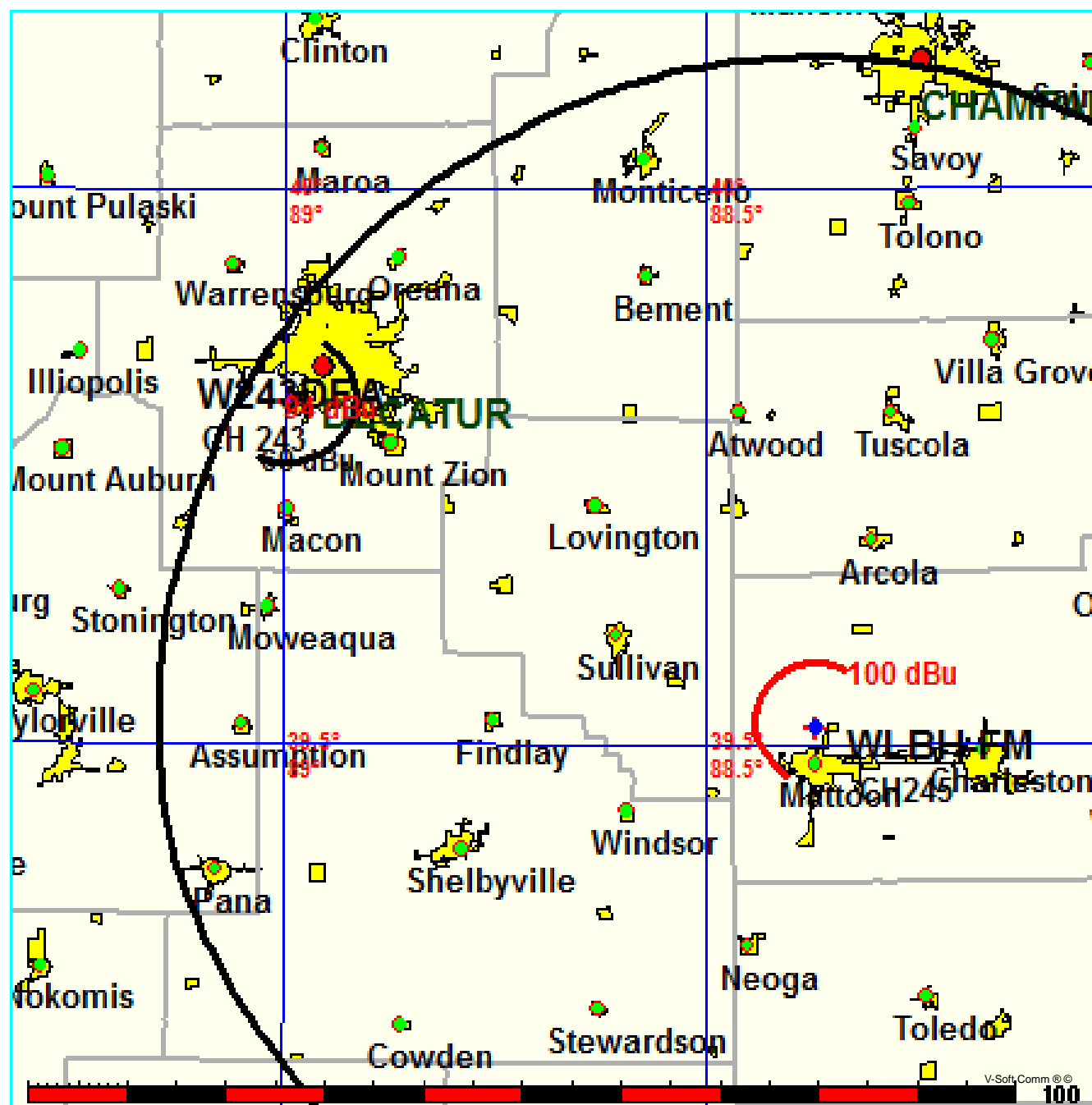


Figure 2-1

W243DF.A Decatur, IL

74.1204(d) Showing

Translator Maximum Licensed ERP = 0.013

Translator Antenna Height AG = 104 Meters

W243DF.A Antenna Model = 6812B 2 3-4

Protected Station's Contour = 55.95166 dBu

Translator's or LPFM's full Interference contour 95.95166

Review Azimuth = 0 Degrees True

Relative Field on the horizon at Review Azimuth = 1.000

Translator ERP on the horizon at Review Azimuth = 0.013 kW

Distance between stations = 62.3 km

Protected Station= WLBH-F, 50 kW, 361 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	0.0130	403.0776	403.0776	104.000
01.00	0.999	1.0	0.0130	402.6745	402.6132	096.972
02.00	0.996	1.0	0.0129	401.4653	401.2207	089.989
03.00	0.991	1.0	0.0128	399.4499	398.9025	083.094
04.00	0.984	1.0	0.0126	396.6284	395.6622	076.333
05.00	0.975	1.0	0.0124	393.0007	391.5052	069.748
06.00	0.965	1.0	0.0121	388.9699	386.8391	063.342
07.00	0.952	1.0	0.0118	383.7299	380.8696	057.235
08.00	0.938	1.0	0.0114	378.0868	374.4073	051.380
09.00	0.922	1.0	0.0111	371.6376	367.0621	045.863
10.00	0.904	1.0	0.0106	364.3822	358.8464	040.726
11.00	0.884	1.0	0.0102	356.3206	349.7740	036.011
12.00	0.864	1.0	0.0097	348.2591	340.6488	031.593
13.00	0.841	1.0	0.0092	338.9883	330.3000	027.744
14.00	0.817	1.0	0.0087	329.3144	319.5324	024.332
15.00	0.792	1.0	0.0082	319.2375	308.3597	021.375
16.00	0.766	1.0	0.0076	308.7574	296.7967	018.895
17.00	0.739	1.0	0.0071	297.8744	284.8587	016.910
18.00	0.711	1.0	0.0066	286.5882	272.5616	015.439
19.00	0.682	1.0	0.0060	274.8989	259.9220	014.502
20.00	0.652	1.0	0.0055	262.8066	246.9574	014.115
21.00	0.621	1.0	0.0050	250.3112	233.6856	014.296
22.00	0.59	1.0	0.0045	237.8158	220.4990	014.913
23.00	0.558	1.0	0.0040	224.9173	207.0375	016.118

24.00	0.526	1.0	0.0036	212.0188	193.6888	017.764
25.00	0.494	1.0	0.0032	199.1203	180.4643	019.848
26.00	0.461	1.0	0.0028	185.8188	167.0128	022.542
27.00	0.429	1.0	0.0024	172.9203	154.0731	025.496
28.00	0.396	1.0	0.0020	159.6187	140.9350	029.064
29.00	0.364	1.0	0.0017	146.7202	128.3244	032.869
30.00	0.332	1.0	0.0014	133.8218	115.8930	037.089
31.00	0.3	1.0	0.0012	120.9233	103.6515	041.720
32.00	0.269	1.0	0.0009	108.4279	091.9521	046.542
33.00	0.238	1.0	0.0007	095.9325	080.4557	051.751
34.00	0.208	1.0	0.0006	083.8401	069.5066	057.117
35.00	0.178	1.0	0.0004	071.7478	058.7724	062.847
36.00	0.149	1.0	0.0003	060.0586	048.5884	068.698
37.00	0.121	1.0	0.0002	048.7724	038.9514	074.648
38.00	0.094	1.0	0.0001	037.8893	029.8572	080.673
39.00	0.068	1.0	0.0001	027.4093	021.3010	086.751
40.00	0.042	1.0	0.0000	016.9293	012.9686	093.118
41.00	0.018	1.0	0.0000	007.2554	005.4757	099.240
42.00	0.006	1.0	0.0000	002.4185	001.7973	102.382
43.00	0.028	1.0	0.0000	011.2862	008.2542	096.303
44.00	0.05	1.0	0.0000	020.1539	014.4975	090.000
45.00	0.07	1.0	0.0001	028.2154	019.9513	084.049
46.00	0.089	1.0	0.0001	035.8739	024.9201	078.194
47.00	0.107	1.0	0.0001	043.1293	029.4141	072.457
48.00	0.123	1.0	0.0002	049.5785	033.1745	067.156
49.00	0.139	1.0	0.0003	056.0278	036.7575	061.715
50.00	0.153	1.0	0.0003	061.6709	039.6413	056.757
51.00	0.166	1.0	0.0004	066.9109	042.1084	052.000
52.00	0.178	1.0	0.0004	071.7478	044.1724	047.462
53.00	0.189	1.0	0.0005	076.1817	045.8473	043.159
54.00	0.199	1.0	0.0005	080.2124	047.1477	039.107
55.00	0.208	1.0	0.0006	083.8401	048.0887	035.322
56.00	0.215	1.0	0.0006	086.6617	048.4606	032.154
57.00	0.221	1.0	0.0006	089.0802	048.5165	029.291
58.00	0.227	1.0	0.0007	091.4986	048.4869	026.405
59.00	0.231	1.0	0.0007	093.1109	047.9557	024.188
60.00	0.234	1.0	0.0007	094.3202	047.1601	022.316
61.00	0.236	1.0	0.0007	095.1263	046.1182	020.801
62.00	0.237	1.0	0.0007	095.5294	044.8483	019.653
63.00	0.237	1.0	0.0007	095.5294	043.3694	018.883
64.00	0.237	1.0	0.0007	095.5294	041.8773	018.139
65.00	0.235	1.0	0.0007	094.7232	040.0318	018.152
66.00	0.233	1.0	0.0007	093.9171	038.1995	018.202
67.00	0.229	1.0	0.0007	092.3048	036.0663	019.033
68.00	0.225	1.0	0.0007	090.6925	033.9740	019.911
69.00	0.22	1.0	0.0006	088.6771	031.7790	021.213

70.00	0.215	1.0	0.0006	086.6617	029.6400	022.565
71.00	0.209	1.0	0.0006	084.2432	027.4269	024.346
72.00	0.202	1.0	0.0005	081.4217	025.1607	026.563
73.00	0.194	1.0	0.0005	078.1971	022.8626	029.220
74.00	0.186	1.0	0.0004	074.9724	020.6652	031.932
75.00	0.178	1.0	0.0004	071.7478	018.5697	034.697
76.00	0.169	1.0	0.0004	068.1201	016.4797	037.903
77.00	0.159	1.0	0.0003	064.0893	014.4170	041.553
78.00	0.149	1.0	0.0003	060.0586	012.4869	045.254
79.00	0.138	1.0	0.0002	055.6247	010.6137	049.397
80.00	0.127	1.0	0.0002	051.1909	008.8892	053.587
81.00	0.116	1.0	0.0002	046.7570	007.3144	057.819
82.00	0.104	1.0	0.0001	041.9201	005.8341	062.488
83.00	0.092	1.0	0.0001	037.0831	004.5193	067.193
84.00	0.08	1.0	0.0001	032.2462	003.3706	071.930
85.00	0.068	1.0	0.0001	027.4093	002.3889	076.695
86.00	0.055	1.0	0.0000	022.1693	001.5464	081.885
87.00	0.042	1.0	0.0000	016.9293	000.8860	087.094
88.00	0.028	1.0	0.0000	011.2862	000.3939	092.721
89.00	0.015	1.0	0.0000	006.0462	000.1055	097.955
90.00	0.001	1.0	0.0000	000.4031	000.0000	103.597

X-Field™ By V-Soft Communications®LLC

Figure 2-2

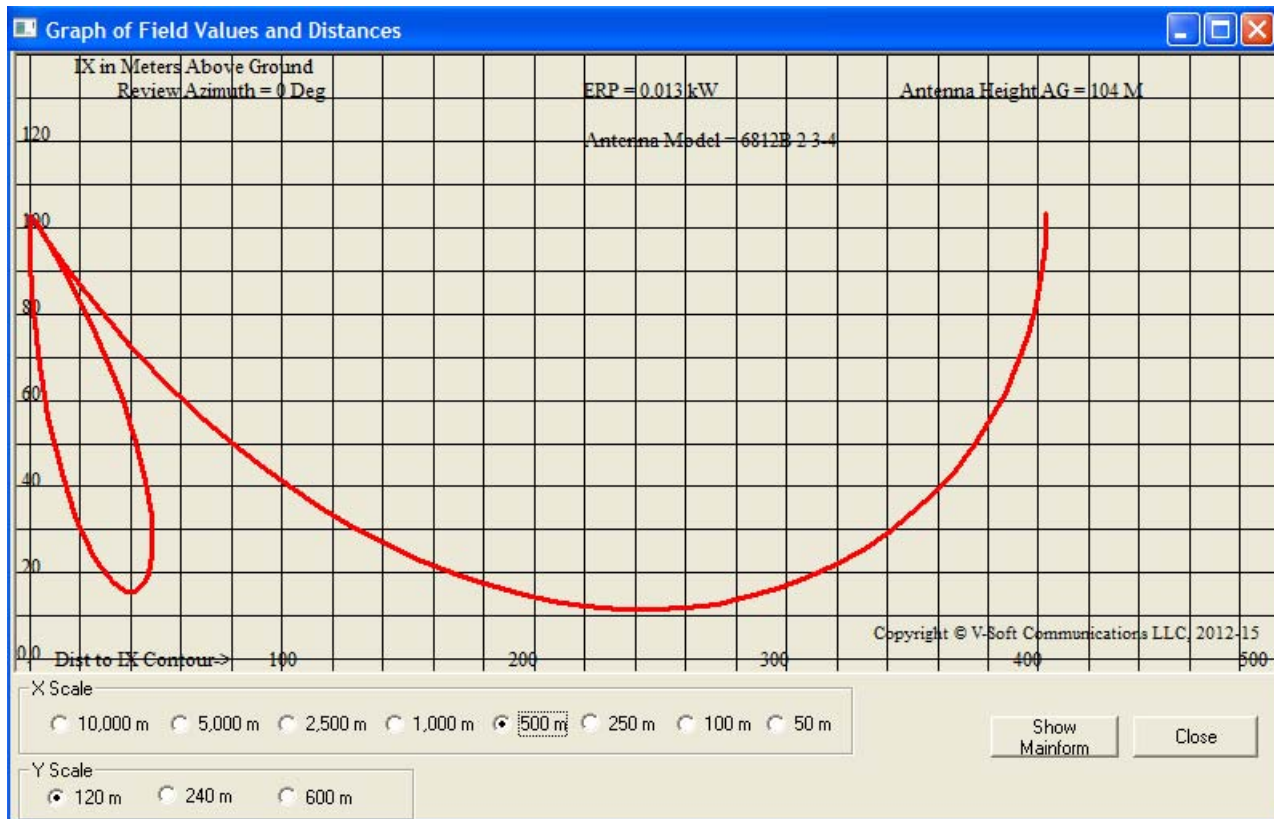


Figure 3
Minor Modification of Construction Permit

FMCommander Single Allocation Study - 02-23-2015 - NGDC 30 SEC
W243DF.A's Overlaps (In= -18.0 km, Out= -18.3 km)

W243DF.A CH 243 D
Lat= 39 48 34.9, Lng= 88 59 30.7
0.013 kW 110.8 M HAAT, 309.7 M COR
Prot.= 60 dBu, Intef.= 40 dBu

W243DF CH 243 D BNPFT20130821AAP
Lat= 39 51 04.9, Lng= 89 05 57.7
0.08 kW 45.7 M HAAT, 236 M COR
Prot.= 60 dBu, Intef.= 40 dBu

