

Technical Exhibit  
Minor Amendment to Peoria 256D  
311m RC-AMSL 171m Highest Radial  
82m AGL  
10 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 Figures 1 and 2.

A channel move to 258 is being proposed in the instant application to eliminate interference with Pekin 256D (BNPFT20030314CIP). Figure 1 shows no interference with the pending application and Figure 2-2 shows no interference with the proposed amended application.

### 74.1204(d) Showing

The instant application is proposed based upon d/u ratios with respect to WWCT, Bartonville, IL a second adjacent station. No actual interference will occur due to a lack of population within the interference area since the interfering contour will not reach the ground or any building.

Figure 3 is a tabular layout of the computations of the protected and interfering contours utilizing V-Soft's X-Field program at 0 degrees with a single bay antenna. Since the instant application proposes a nondirectional antenna, the same propagation is assumed for all azimuths. The closest the interfering contour gets to the ground is 80.144m at 2.2m from the tower base.

Figure 3-1 illustrates the vertical elevation of the interfering contour of the instant application.

Figure 3-2 is a satellite Google map showing the transmit site. The interfering contour does not reach the ground nor are there any tall buildings close enough to be reached by the interfering contour.

### 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  $0.10434 \mu\text{W}/\text{cm}^2$  or less than 0.1% of the controlled standard. With the addition of this RF the site remains within the limits of the controlled standard.

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 Amendment to Peoria 256D											
CH# 258D - 99.5 MHz, Pwr= 0.01 kW, HAAT= 125.6 M, COR= 311 M											
Average Protected F(50-50)= 6.52 km											
Omni-directional											
REFERENCE											DISPLAY DATES
40 37 43.9 N.											DATA 07-17-13
89 34 11.6 W.											SEARCH 07-17-13
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*	
258A Lexington	WZIM	LIC _C_ IL	95.3 275.8	62.11 BLH20010720ABH	40 34 30.0 88 50 15.0	6.000 100	87.0 337	28.6 Pilot Media, LLC	-30.3*	15.8	
260A Bartonville	WWCT	LIC NCN IL	133.7 313.7	3.61 BLH19970303KC	40 36 23.0 89 32 20.0	1.500 178	2.2 369	27.7 Advanced Media Partners, L	-4.5*	-24.3*	
256D Pekin	633625	APP _C_ IL	178.7 358.7	7.90 BNPFT20030314CIP	40 33 28.0 89 34 04.0	0.038 50	0.3 231	6.2 Illinois Association Of Se	1.5	1.4	
256D Peoria	644756	APP _C_ IL	329.7 149.6	10.59 BNPFT20030317A0I	40 42 40.0 89 38 00.0	0.055 35	0.5 218	4.8 Covenant Network	3.0	4.6	
257A Havana	WDUK	LIC _HN IL	229.5 49.2	54.10 BLH4703	40 18 43.0 90 03 19.0	3.000 91	35.8 238	23.6 Illinois Valley Radio	10.8	18.8	
257B1 La Salle	WAJK	LIC _CN IL	15.7 195.9	90.60 BLH19891026KC	41 24 47.0 89 16 34.0	11.000 149	62.9 352	48.7 La Salle County Broadcasti	20.1	29.3	
258C1 Quincy	WCOY	LIC NCX IL	246.6 65.3	187.13 BLH20021125AAV	39 56 30.0 91 35 03.0	100.000 149	158.5 316	61.2 Staradio Corp.	21.1	101.0	
255B Rock Island	WLKU	LIC _CX IL	319.1 138.6	103.20 BMLED20110329ADS	41 19 39.0 90 22 46.0	39.000 281	7.5 501	75.2 Educational Media Foundati	88.4	27.8	
261D Bloomington	W261BK	LIC _C_ IL	108.3 288.7	51.17 BLFT20050909AAL	40 28 59.0 88 59 43.0	0.019 92	0.3 332	6.3 Central Illinois Radio Fel	45.1	44.4	
255D Bloomington	W255AI	LIC _C_ IL	104.5 285.0	56.00 BLFT20020314ABG	40 30 02.0 88 55 43.0	0.055 54	0.5 296	6.6 Illinois Bible Institute,	49.8	49.2	
261D Lincoln	W261AF	LIC _C_ IL	163.8 344.0	56.37 BLFT20040618ABA	40 08 30.0 89 23 07.0	0.055 57	0.5 232	6.7 Cornerstone Community Radi	50.0	49.4	

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= East 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 protected contour.  
 Reference station has protected zone issue:

Figure 2  
Minor Amendment to Peoria 256D

FMCommander Single Allocation Study - 07-17-2013 - NGDC 30 SEC  
644756's Overlaps (In= -30.33 km, Out= 15.84 km)

644756 CH 258 D  
Lat= 40 37 43.9, Lng= 89 34 11.6  
0.01 kW 125.6 M HAAT, 311 M COR  
Prot.= 60 dBu, Intef.= 40 dBu

WZIM CH 258 A BLH20010720ABH  
Lat= 40 34 30.0, Lng= 88 50 15.0  
6.0 kW 100 M HAAT, 337 M COR  
Prot.= 60 dBu, Intef.= 40 dBu

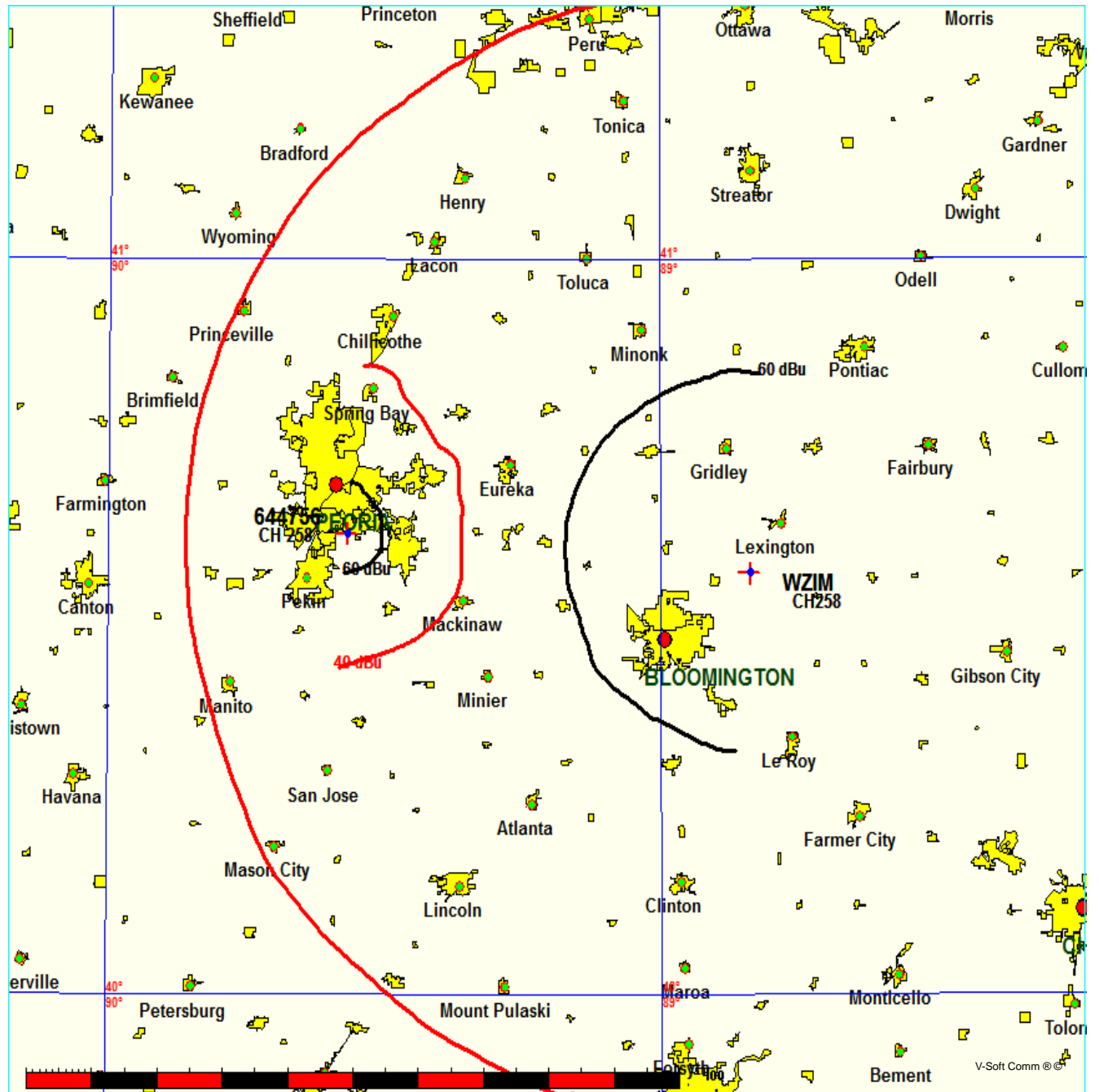


Figure 2-1  
Minor Amendment to Peoria 256D

FMCommander Single Allocation Study - 07-17-2013 - NGDC 30 SEC  
644756's Overlaps (In= -4.48 km, Out= -24.33 km)

644756 CH 258 D  
Lat= 40 37 43.9, Lng= 89 34 11.6  
0.01 kW 125.6 M HAAT, 311 M COR  
Prot.= 60 dBu, Intef.= 100 dBu

WWCT CH 260 A 73.215 N BLH19970303KC  
Lat= 40 36 23.0, Lng= 89 32 20.0  
1.5 kW 178 M HAAT, 369 M COR  
Prot.= 60 dBu, Intef.= 100 dBu

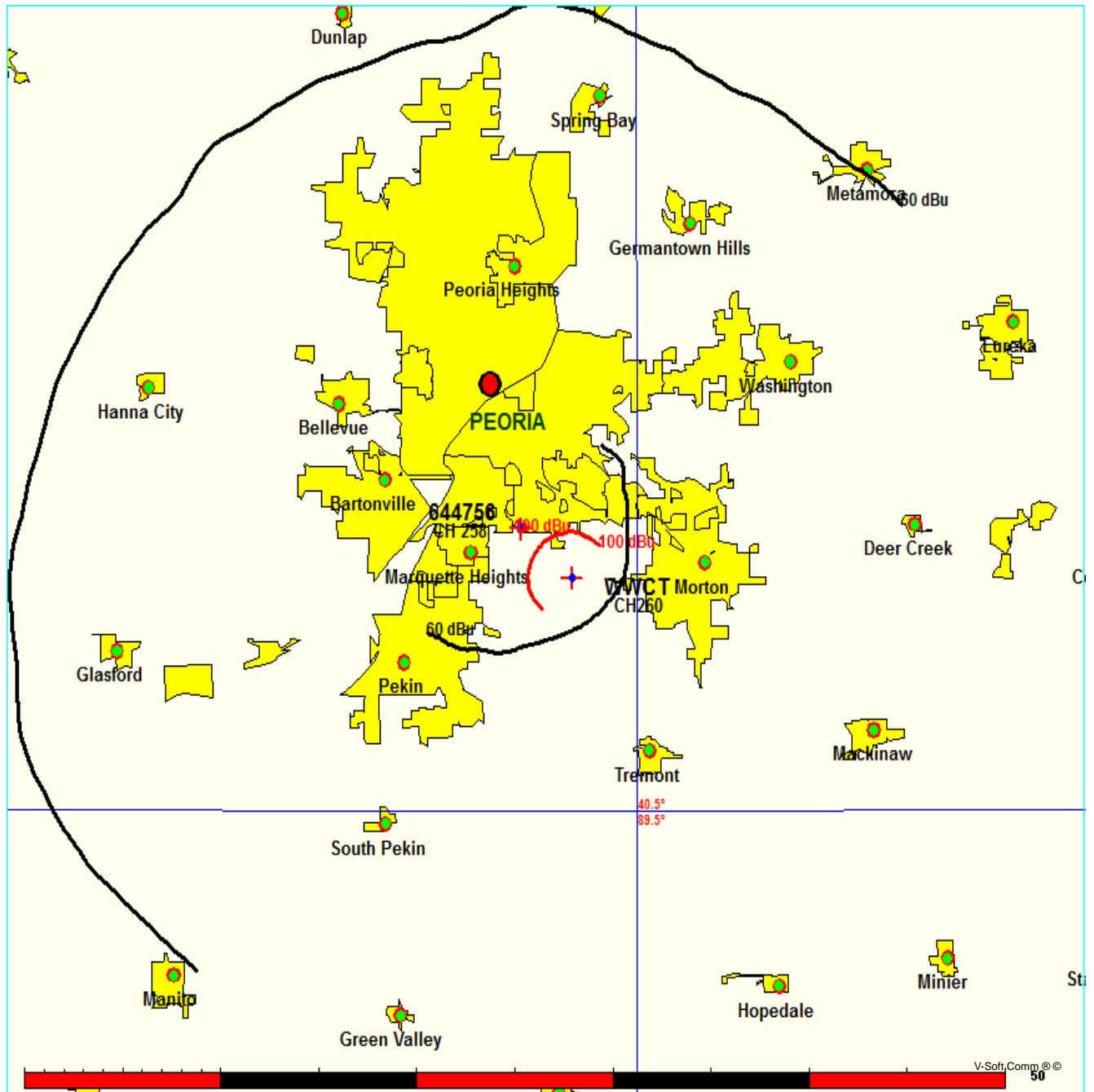
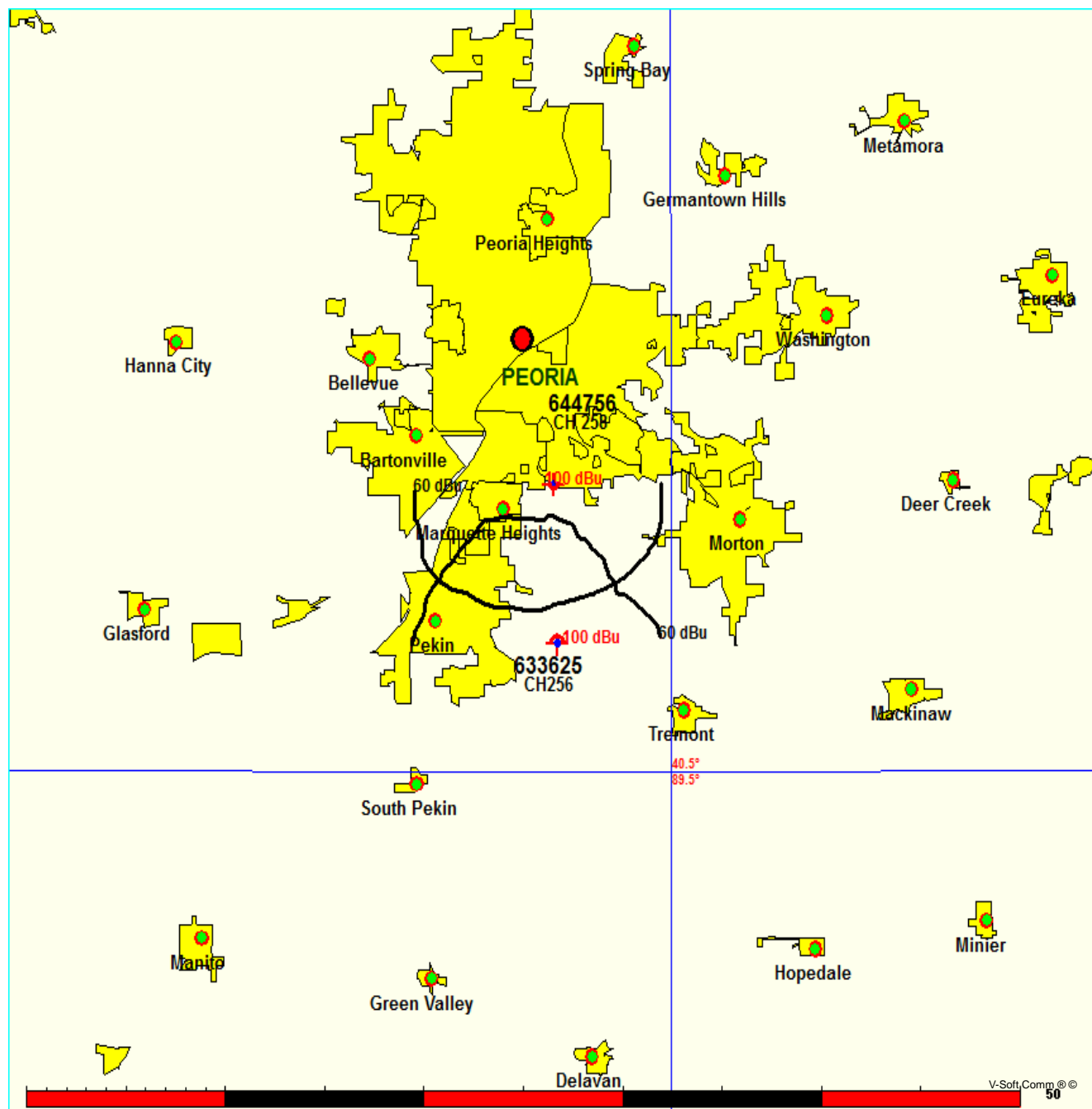


Figure 2-2  
Minor Amendment to Peoria 256D

FMCommander Single Allocation Study - 07-17-2013 - NGDC 30 SEC  
644756's Overlaps (In= 1.49 km, Out= 1.36 km)

644756 CH 258 D  
Lat= 40 37 43.9, Lng= 89 34 11.6  
0.01 kW 125.6 M HAAT, 311 M COR  
Prot.= 60 dBu, Intef.= 100 dBu

633625 CH 256 D BNPFT20030314CIP  
Lat= 40 33 28.0, Lng= 89 34 04.0  
0.019 kW 80.4 M HAAT, 261 M COR  
Prot.= 60 dBu, Intef.= 100 dBu



FMCommander Single Allocation Study - 07-17-2013 - NGDC 30 SEC  
644756's Overlaps (In= 2.95 km, Out= 4.59 km)

644756 CH 256 D BNPFT20030317AOI  
Lat= 40 42 40.0, Lng= 89 38 00.0  
0.055 kW 35.2 M HAAT, 218 M COR  
Prot.= 60 dBu, Intef.= 100 dBu

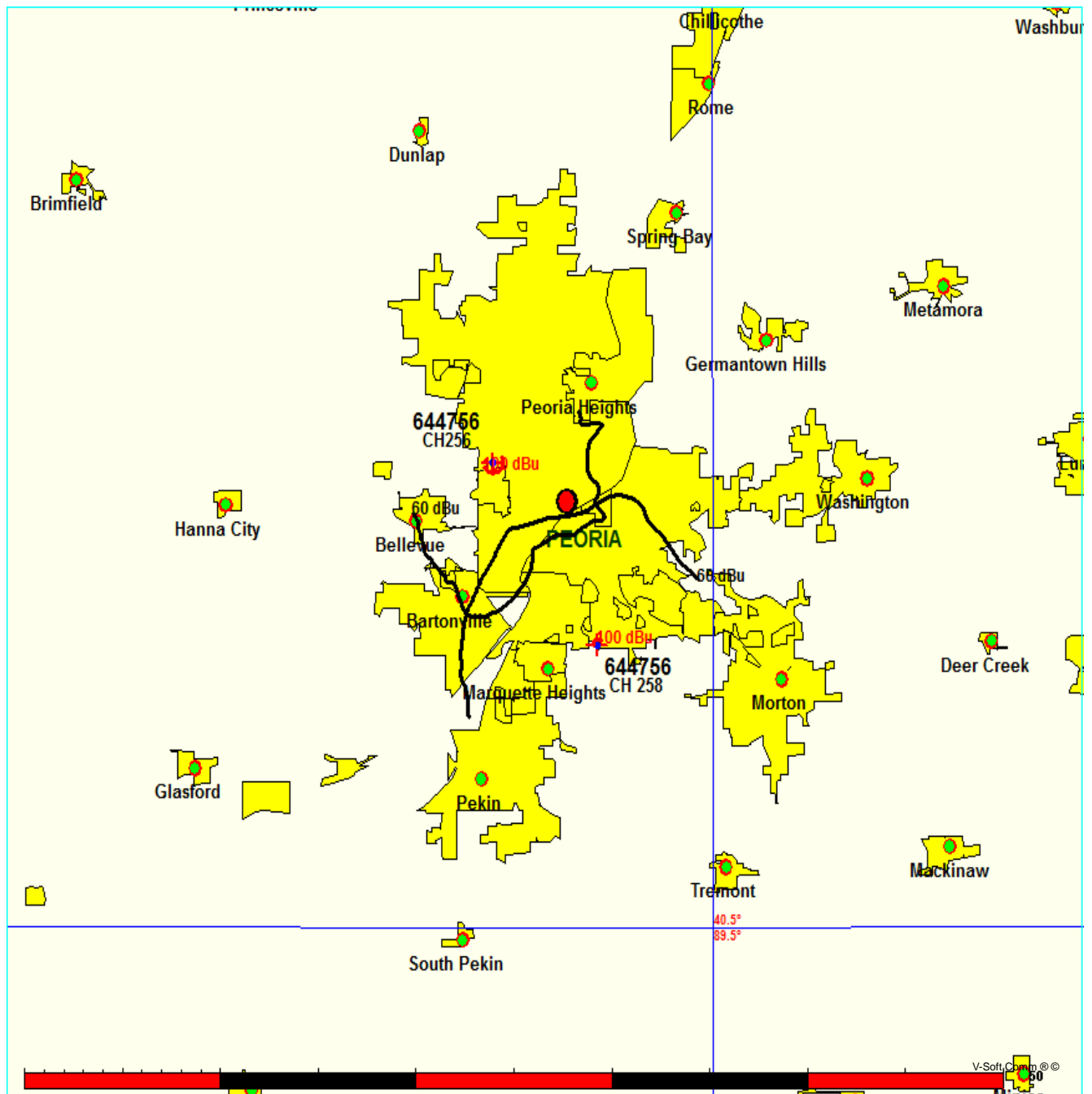


Figure 3

644756 Peoria, IL  
 Translator 74.1204(d) Showing  
 Translator Maximum Licensed ERP = 0.01  
 Translator Antenna Height AG = 82 Meters  
 644756 Antenna Model = SHPX1F

Protected Station's Contour = 93.7384 dBu  
 Translator's full Interference contour 133.7384

Review Azimuth = 0 Degrees True  
 Horizontal Relative Field at Review Azimuth = 1.000  
 Horizontal Translator ERP at Review Azimuth = 0.01 kW  
 Distance between stations = 3.6  
 Protected Station= WWCT, 1.5 kW, 369 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	0.0100	004.5612	004.5612	082.000
05.00	0.993	1.0	0.0099	004.5293	004.5120	081.605
10.00	0.974	1.0	0.0095	004.4426	004.3751	081.229
15.00	0.941	1.0	0.0089	004.2921	004.1458	080.889
20.00	0.897	1.0	0.0080	004.0914	003.8447	080.601
25.00	0.843	1.0	0.0071	003.8451	003.4848	080.375
30.00	0.78	1.0	0.0061	003.5577	003.0811	080.221
35.00	0.709	1.0	0.0050	003.2339	002.6491	080.145
40.00	0.633	1.0	0.0040	002.8872	002.2118	080.144
45.00	0.554	1.0	0.0031	002.5269	001.7868	080.213
50.00	0.473	1.0	0.0022	002.1575	001.3868	080.347
55.00	0.394	1.0	0.0016	001.7971	001.0308	080.528
60.00	0.317	1.0	0.0010	001.4459	000.7230	080.748
65.00	0.245	1.0	0.0006	001.1175	000.4723	080.987
70.00	0.181	1.0	0.0003	000.8256	000.2824	081.224
75.00	0.124	1.0	0.0002	000.5656	000.1464	081.454
80.00	0.077	1.0	0.0001	000.3512	000.0610	081.654
85.00	0.041	1.0	0.0000	000.1870	000.0163	081.814
90.00	0.016	1.0	0.0000	000.0730	000.0000	081.927



Figure 3-1

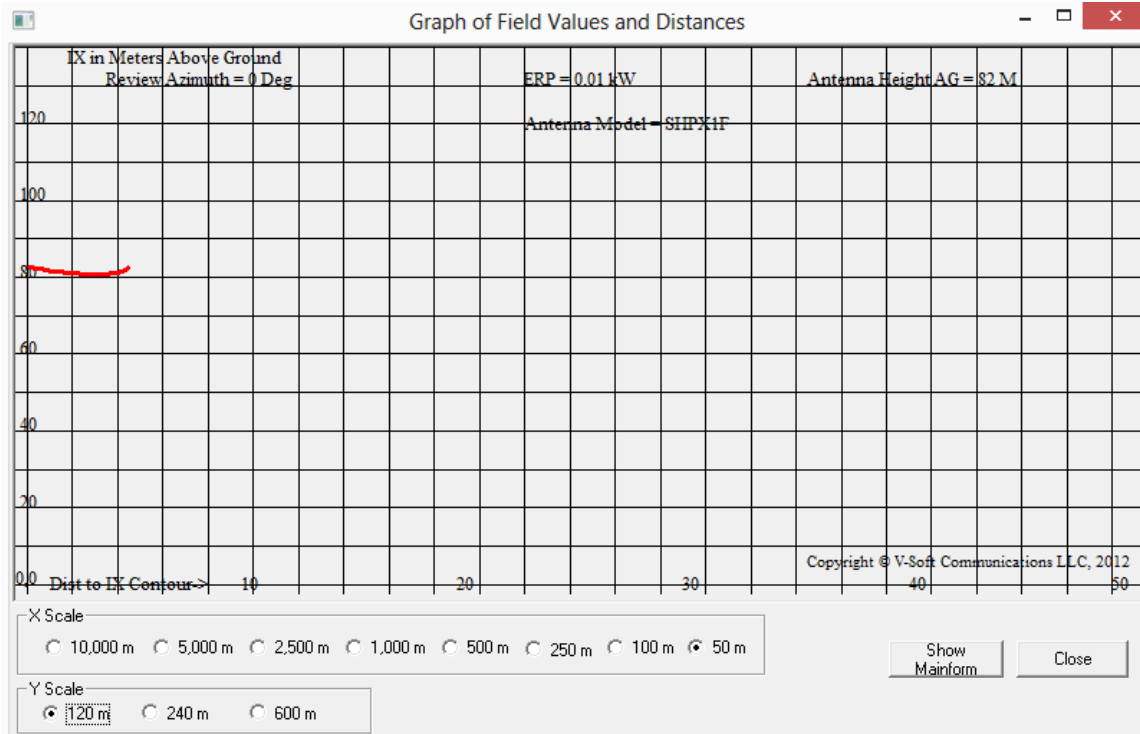


Figure 3-2



Google earth

miles 30  
km 50



Figure 4  
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Coverage Study - NGDC 30 SEC  
07-17-2013

644756 CH258 D , 0.01 kW, 125.6M HAAT, 311.0M COR AMSL  
Service Contour = 60 dBu. Population = 34,918

