

Technical Exhibit
Minor Amendment to Mount Vernon 276D
182m RC-AMSL 50.6m Highest Radial
30m AGL
80 Watts

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Interference Compliance

Contour protection, as required by C.F.R. Section 74.1204 to co-channel, first and second adjacent channels is demonstrated herein by Figures 1 and 2.

Height Above Average Terrain

The proposed HAAT and the predicted 60 dBu contours were calculated in accordance with Section 47 C.F.R. 73.313. The average terrain elevations were calculated along 12 radials using the NED 03 Sec terrain database.

Figure 4 shows the HAAT of the 12 radials. The highest radial is 50.6m above average terrain.

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 $6.81833 \mu\text{W}/\text{cm}^2$ or 3.4% of the controlled standard. With the addition of this RF the site remains within the limits of the uncontrolled standard.

RF warning signs will be posted. The power will be reduced or shut off to allow necessary access to the tower.

Figure 1

Minor Modification of Mount Vernon, IL 276D											
REFERENCE		CH#	275D	-	102.9 MHz,	Pwr= 0.08 kW,	HAAT= 30.8 M,	COR= 182 M	DISPLAY DATES		
38 19 55.0 N.		Average Protected F(50-50)= 5.39 km							DATA 07-17-13		
88 54 35.0 W.		Omni-directional							SEARCH 07-20-13		
CH	CALL	TYPE	ANT	AZI	DIST	LAT	PWR(kW)	INT(km)	PRO(km)	*IN*	*OUT*
CITY		STATE		<--	FILE #	LNG	HAAT(M)	COR(M)	LICENSEE	(Overlap in km)	
275C1	KEZS-FM	LIC	CN	209.3	117.76	37 24 23.0	100.000	173.7	73.5	-62.3*	22.7
Cape Girardeau		MO		28.9	BLH19870501KC	89 33 44.0	289	435	Mrr License Lic		
276D	636669	APP	C_	137.2	2.31	38 19 00.0	0.170	9.2	6.4	-12.6*	-12.1*
Mount Vernon		IL		317.2	BNPFT20030317AES	88 53 30.0	19	164	Covenant Network		
278A	WXLT	LIC	CN	185.5	44.67	37 55 55.0	6.000	2.7	27.2	35.1	16.6
Christopher		IL		5.5	BLH19971224KC	88 57 31.0	100	222	Mrr License Lic		
275B	WSOY-FM	LIC	CN	359.1	171.91	39 52 41.0	54.000	137.4	63.7	29.2	82.8
Decatur		IL		179.1	BLH19990512KB	88 56 32.0	135	339	Neuhoff Family Limited Par		
272A	WEBQ-FM	LIC	CN	144.8	69.49	37 49 14.0	3.000	2.2	22.8	61.2	45.9
El dorado		IL		325.0	BLH6670	88 27 11.0	91	208	W. Russell Withers, Jr.		
272A	WEBQ-FM	CP	ZCX	154.7	75.46	37 43 03.0	6.000	2.4	25.5	66.7	49.2
El dorado		IL		335.0	BPH20101228ACE	88 32 37.0	100	227	W. Russell Withers, Jr.		

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
 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.

Figure 2
Minor Modification of Mount Vernon, IL 276D

FMCommander Single Allocation Study - 07-20-2013 - NED 03 SEC
636669's Overlaps (In= -62.28 km, Out= 22.82 km)

636669 CH 275 D

Lat= 38 19 55.0, Lng= 88 54 35.0

0.08 kW 30.8 M HAAT, 182 M COR

Prot.= 60 dBu, Intef.= 40 dBu

KEZS-FM CH 275 C1 BLH19870501KC

Lat= 37 24 23.0, Lng= 89 33 44.0

100.0 kW 289 M HAAT, 435 M COR

Prot.= 60 dBu, Intef.= 40 dBu

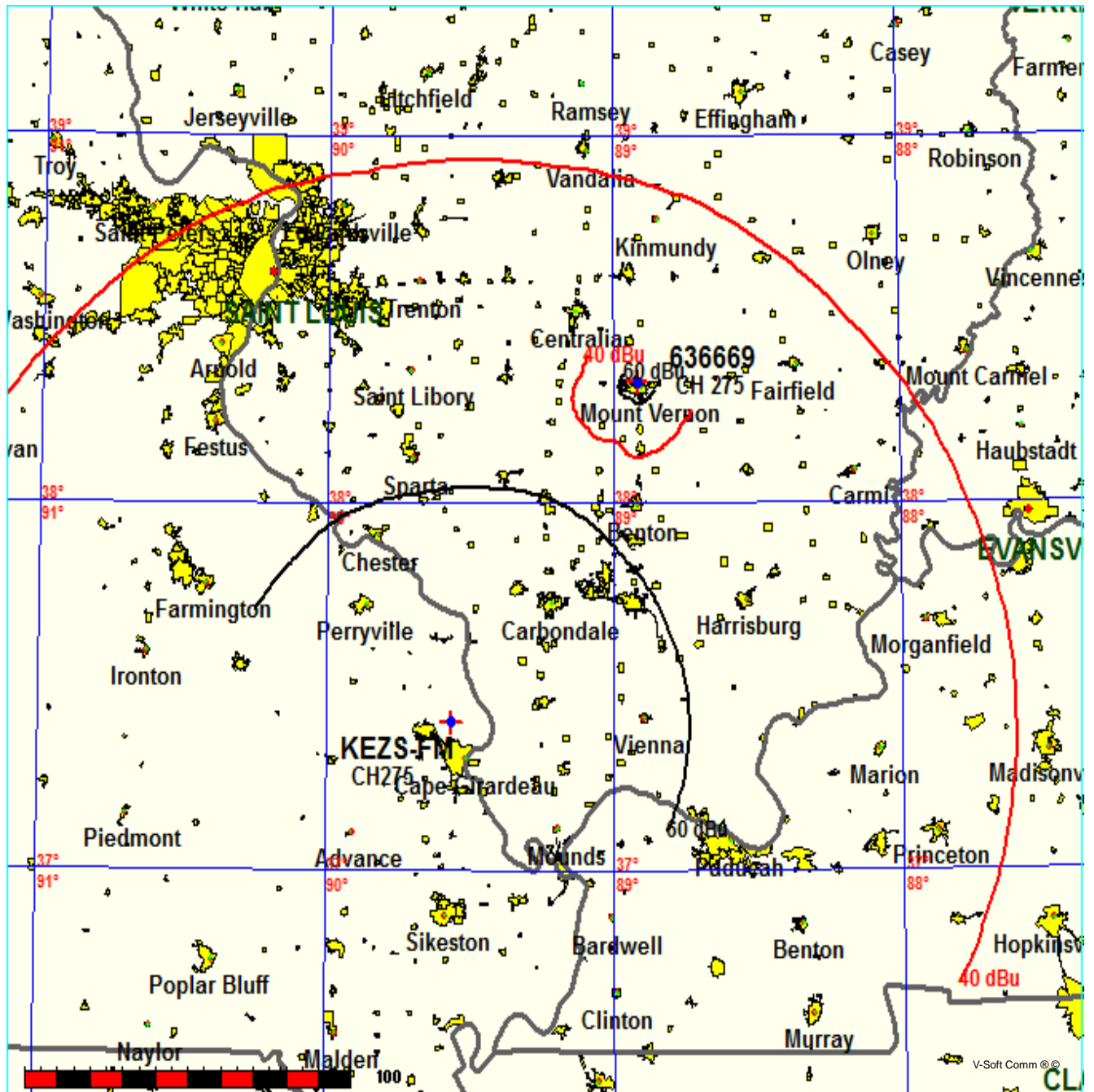


Figure 2-1
Minor Modification of Mount Vernon, IL 276D

FMCommander Single Allocation Study - 07-20-2013 - NED 03 SEC
636669's Overlaps (In= -12.58 km, Out= -12.17 km)

636669 CH 275 D
Lat= 38 19 55.0, Lng= 88 54 35.0
0.08 kW 30.8 M HAAT, 182 M COR
Prot.= 60 dBu, Intef.= 54 dBu

636669 CH 276 D BNPFT20030317AES
Lat= 38 19 00.0, Lng= 88 53 30.0
0.17 kW 19.2 M HAAT, 164 M COR
Prot.= 60 dBu, Intef.= 54 dBu

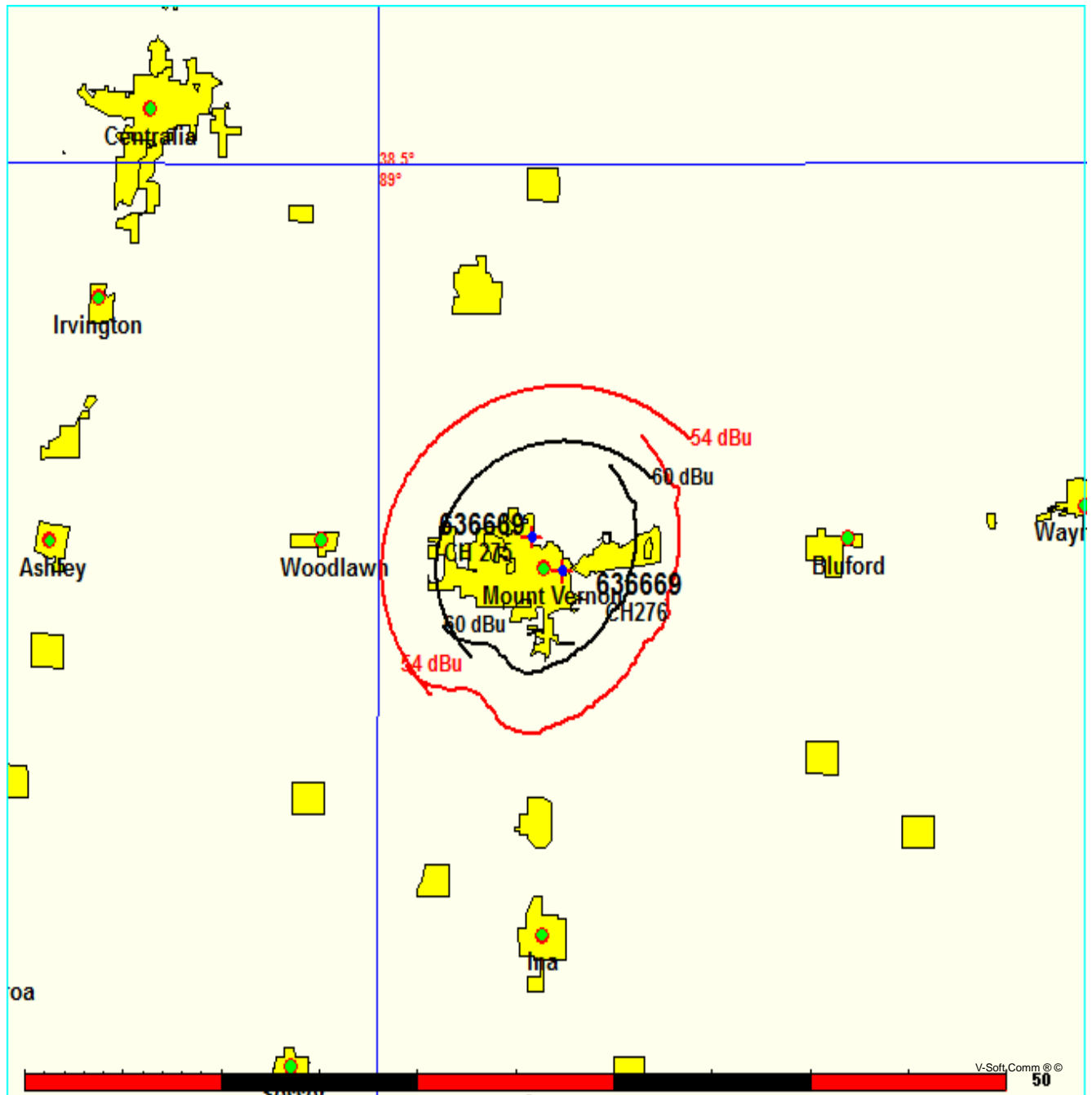
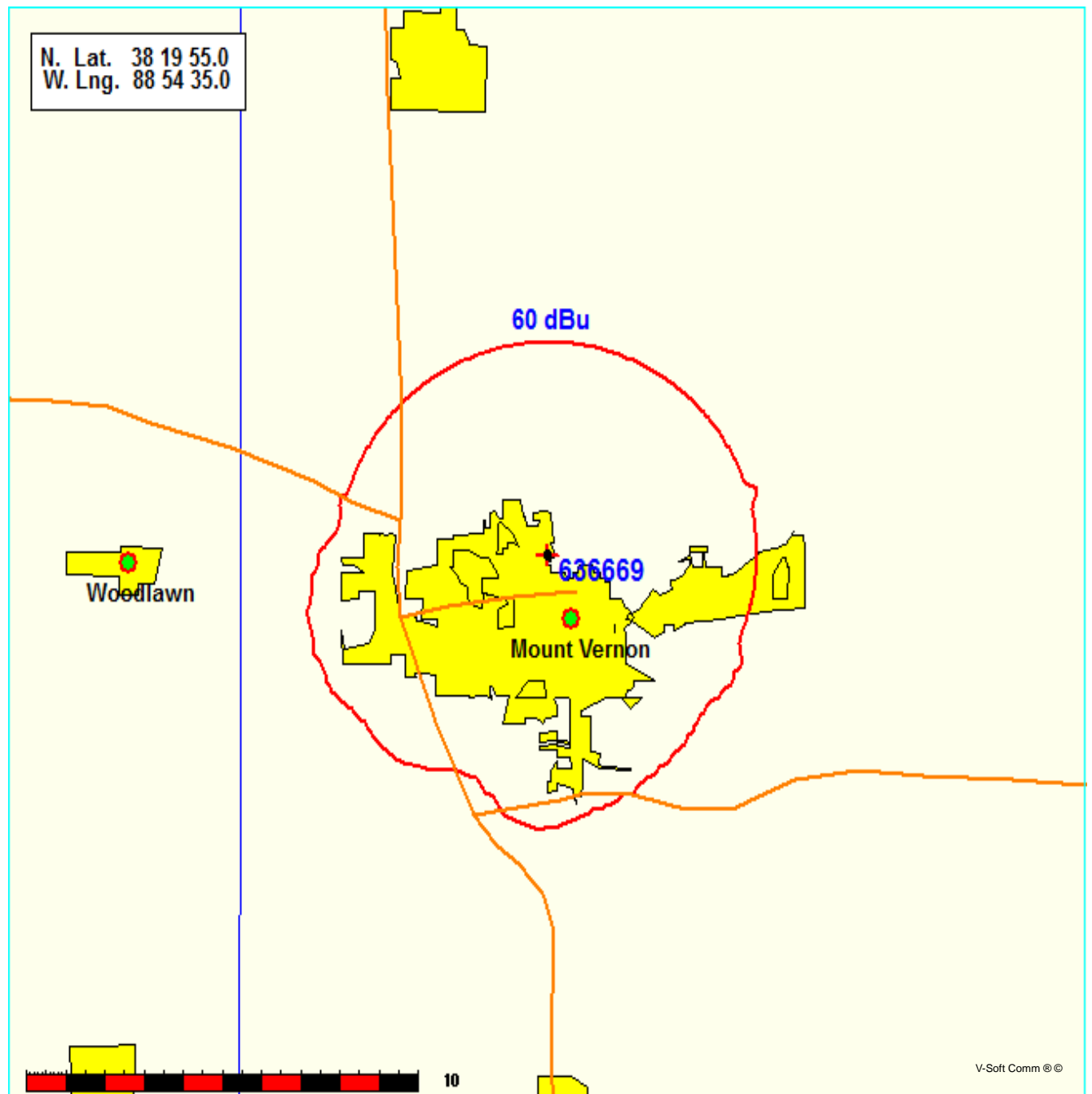
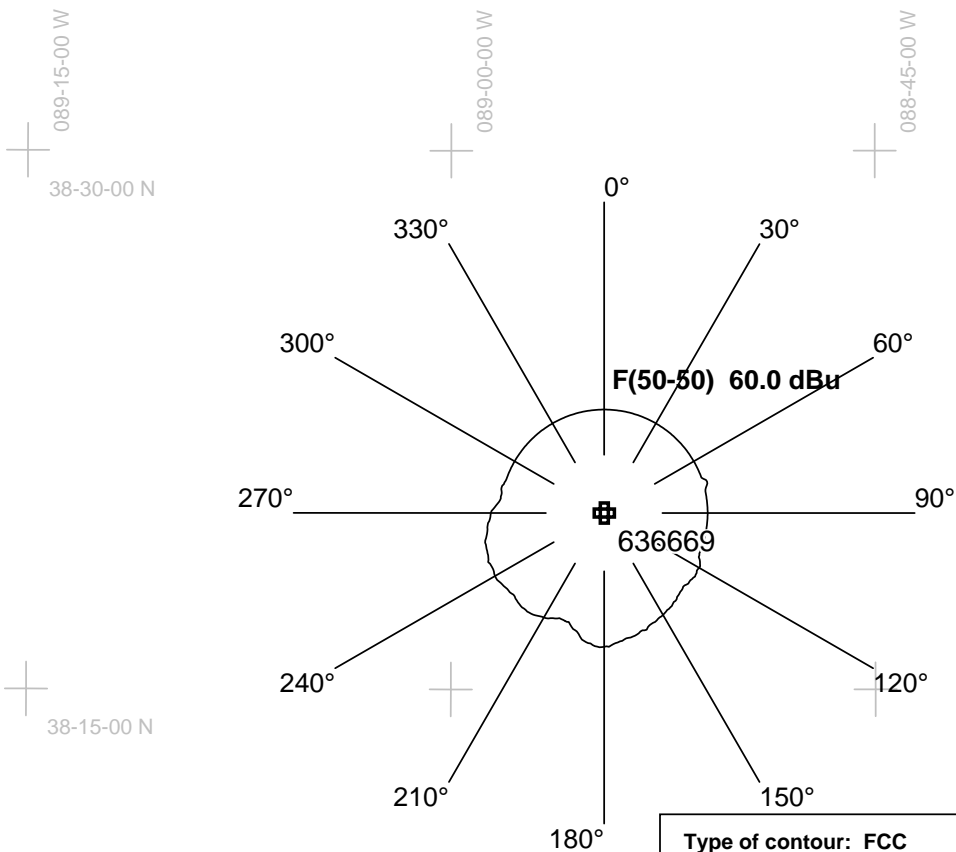
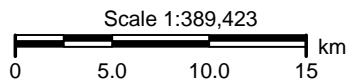


Figure 3
Minor Modification of Mount Vernon, IL 276D

Coverage Study - NED 03 SEC
07-20-2013

636669 CH275 D , 0.08 kW, 30.8M HAAT, 182.0M COR AMSL
Service Contour = 60 dBu. Population = 19,523





636669

Latitude: 38-19-55 N
Longitude: 088-54-35 W
ERP: 0.08 kW
Channel: 275
Frequency: 102.9 MHz
AMSL Height: 182.0 m
Horiz. Pattern: Omni
Vert. Pattern: No
Prop Model: None

Type of contour: FCC

Location Variability: 50.0 %

Time Variability: 50.0 %

of Radials Calculated: 360

V-Soft Accurate HAAT Calculation Used

Field Strength: 60.00 dBuV/m

Primary Terrain: NED 3 Second US Terrain

Bearing (deg)	Distance (km)	HAAT (m)
0.0	5.33	20.2
30.0	5.33	11.5
60.0	5.33	23.0
90.0	5.33	22.4
120.0	5.66	34.2
150.0	6.06	39.4
180.0	6.90	50.6
210.0	6.22	41.5
240.0	6.50	45.1
270.0	5.84	36.5
300.0	5.33	28.9
330.0	5.33	16.2