

Technical Exhibit  
Minor Amendment to Mexico 228D  
300.5m RC-AMSL 75.1m Highest Radial  
50m AGL  
50 Watts

TABLE OF CONTENTS

Figure 1	Interference Study Table
Figure 2	HAAT
Figure 3	Coverage Map

### 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.

### 74.1204(d) Showing

The instant application is being submitted utilizing d/u ratios with respect to BNPFT20030312BAU, a third adjacent application. Utilizing d/u ratios will allow the instant application to be processed as a singleton.

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 two-bay half-wave spaced antenna. Since the instant application proposes a nondirectional antenna, the same propagation is assumed for all azimuths.

The closest the interfering contour comes to the ground is 2.4m at 102m from the tower.

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

Figure 3-2 is a satellite Google map showing no buildings or highways within 102m of the tower where the interfering contour comes closest to the ground.

### 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  $1.44444 \mu\text{W}/\text{cm}^2$  or 0.1% of the controlled standard. This is inconsequential when added to existing RF at the site.

The site is fenced. The power will be reduced or shut off to allow necessary access to the tower.

Figure 1

Minor Amendment to Mexico 228D											
Average Protected F(50-50)= 6.33 km											
Omni-directional											
CH	CALL	TYPE	ANT	AZI	DI ST	LAT	PWR(kW)	INT(km)	PRO(km)	*IN*	*OUT*
CITY		STATE		<--	FILE #	LNG	HAAT(M)	COR(M)	LICENSEE	(Overlap in km)	
228D	647207	APP	_C_	131.1	4.68	39 10 00.0	0.250	44.8	13.0	-46.6*	-30.2*
Mexico		MO		311.2	BNPFT20030317BJF	91 54 00.0	108	351	Covenant Network		
228C2	KMYK	LIC	_C_	206.9	128.03	38 09 52.0	39.000	133.8	51.4	-11.1*	58.6
Osage Beach		MO		26.5	BLH20000327ABP	92 36 12.0	168	397	Viper Communications, Inc.		
231D	1562214	APP	_C_	158.5	4.93	39 09 11.0	0.051	0.5	8.4	-1.7*	-4.0*
Mexico		MO		338.6	BNPFT20030312BAU	91 55 12.0		337	Community Broadcasting, Inc.		
230C3	KSSZ	LIC	_CN	252.1	49.04	39 03 28.0	25.000	4.0	38.6	39.3	9.8
Fayette		MO		71.7	BLH19960923KD	92 28 49.0	100	316	Zimmer Radio Of Mid-missou		
227C2	KQOX	CP	NCX	125.2	84.55	38 45 14.1	50.000	61.6	37.5	16.3	36.4
Hermann		MO		305.7	BPH20101122ABW	91 08 41.9	96	319	Twenty-one Sound Communica		
225C1	KGRC	LIC	_C_	37.5	75.24	39 43 48.0	100.000	6.6	55.7	60.9	18.9
Hannibal		MO		217.8	BLH20001218AAF	91 24 19.0	153	328	Staradio Corp.		
226C3	KWJK	CP	ZCX	243.1	61.65	38 56 31.0	16.500	3.0	30.7	52.9	28.5
Boonville		MO		62.7	BPH20101209AAL	92 34 32.0	124	330	Billings Broadcasting, Inc		
226C3	KWJK	LIC	NCX	243.1	61.65	38 56 31.0	7.200	3.0	31.0	52.9	29.3
Boonville		MO		62.7	BLH20070516ABI	92 34 32.0	126	331	Billings Broadcasting, Inc		
231C3	KPVR	LIC	NCX	84.0	75.65	39 15 45.0	7.500	3.7	38.2	65.1	37.0
Bowling Green		MO		264.5	BLH20040128ADJ	91 04 09.0	180	393	Gateway Creative Broadcast		
229C2	KTUF	LIC	_CN	335.8	121.15	40 11 16.0	50.000	77.5	51.6	37.0	60.1
Kirksville		MO		155.4	BLH19910328KB	92 31 32.0	150	424	Kirx, Inc.		
229C1	KSD	CP	NCX	115.7	156.16	38 34 27.7	85.000	100.8	69.1	48.8	77.2
St. Louis		MO		296.8	BPH20120605AAI	90 19 31.5	309	462	Citicasters Licenses, Inc.		

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= 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 protected contour.

Figure 2  
Minor Amendment to Mexico 228D

FMCommander Single Allocation Study - 07-22-2013 - NED 03 SEC  
647207's Overlaps (In= -1.72 km, Out= -3.98 km)

647207 CH 228 D  
Lat= 39 11 39.8, Lng= 91 56 27.4  
0.05 kW 53.7 M HAAT, 300.5 M COR  
Prot.= 60 dBu, Intef.= 100 dBu

1562214 CH 231 D BNPFT20030312BAU  
Lat= 39 09 11.0, Lng= 91 55 12.0  
0.051 kW 0 M HAAT, 337 M COR  
Prot.= 60 dBu, Intef.= 100 dBu

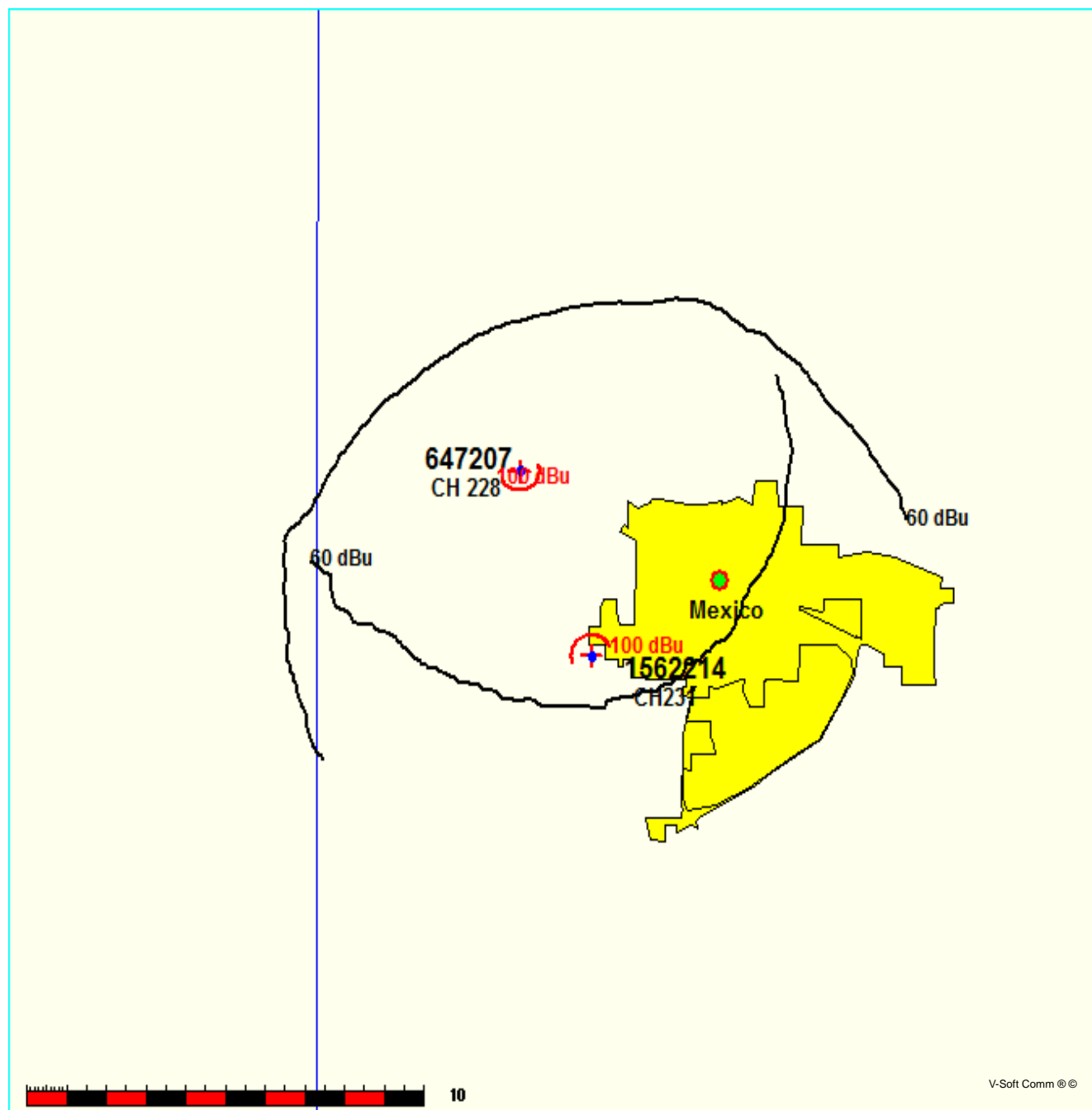


Figure 3

647207 Mexico, MO  
 Translator 74.1204(d) Showing  
 Translator Maximum Licensed ERP = 0.05  
 Translator Antenna Height AG = 50 Meters  
 647207 Antenna Model = SHPX2H

Protected Station's Contour = 69.34126 dBu  
 Translator's full Interference contour 109.34126

Review Azimuth = 0 Degrees True  
 Horizontal Relative Field at Review Azimuth = 1.000  
 Horizontal Translator ERP at Review Azimuth = 0.05 kW  
 Distance between stations = 4.9  
 Protected Station= 156221, .051 kW, 337 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	0.0500	169.2084	169.2084	050.000
05.00	0.984	1.0	0.0484	166.5011	165.8675	035.488
10.00	0.938	1.0	0.0440	158.7175	156.3062	022.439
15.00	0.865	1.0	0.0374	146.3653	141.3780	012.118
20.00	0.772	1.0	0.0298	130.6289	122.7510	005.322
25.00	0.665	1.0	0.0221	112.5236	101.9810	002.445
30.00	0.553	1.0	0.0153	093.5723	081.0360	003.214
35.00	0.442	1.0	0.0098	074.7901	061.2645	007.102
40.00	0.339	1.0	0.0057	057.3617	043.9416	013.129
45.00	0.248	1.0	0.0031	041.9637	029.6728	020.327
50.00	0.172	1.0	0.0015	029.1039	018.7076	027.705
55.00	0.112	1.0	0.0006	018.9513	010.8700	034.476
60.00	0.068	1.0	0.0002	011.5062	005.7531	040.035
65.00	0.037	1.0	0.0001	006.2607	002.6459	044.326
70.00	0.018	1.0	0.0000	003.0458	001.0417	047.138
75.00	0.007	1.0	0.0000	001.1845	000.3066	048.856
80.00	0.002	1.0	0.0000	000.3384	000.0588	049.667
85.00	0.001	1.0	0.0000	000.1692	000.0147	049.831
90.00	0.0	1.0	0.0000	000.0169	000.0000	049.983

Figure 3-1

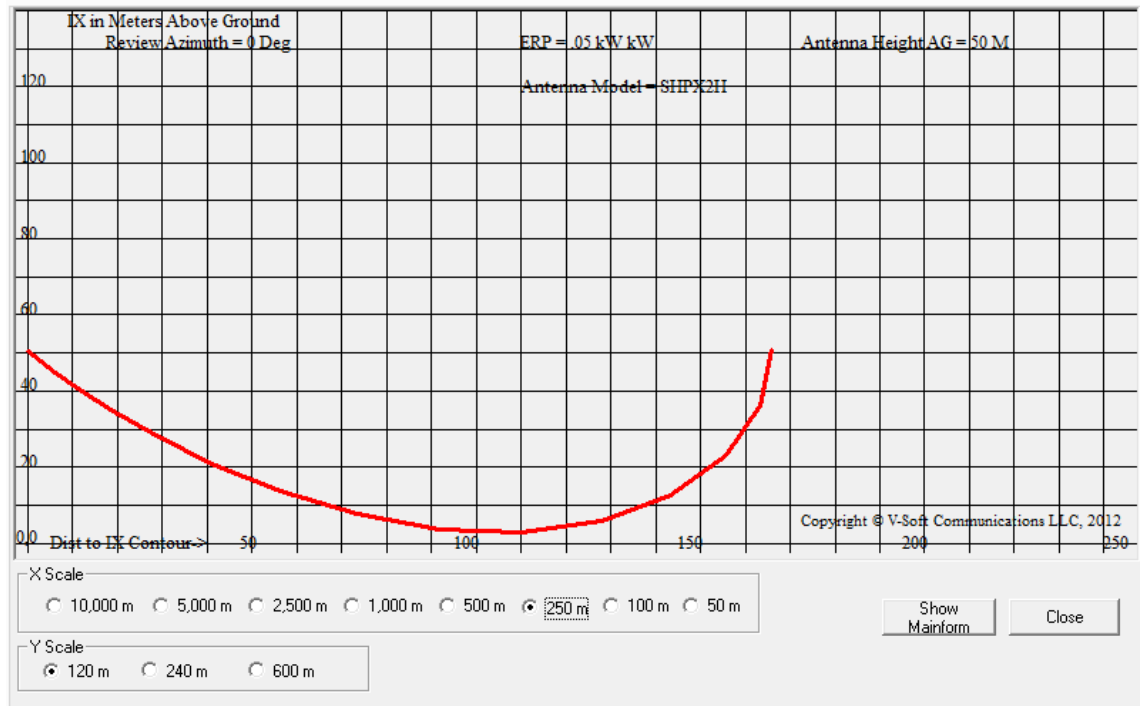


Figure 3-2

