

Channel Study

REFERENCE 38 25 55.0 N. 89 48 42.0 W.		CH# 279D - 103.7 MHz, Pwr= 0.01 kW, HAAT=83.6M, COR= 213 M Average Protected F(50-50)= 5.3 km						DISPLAY DATES DATA 03-03-07 SEARCH 03-05-07			
CH CITY	CALL	TYPE STATE	AZI. <--	DIST FILE #	LAT. LNG.	Pwr(kW) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*	
277C1 St. Louis	KLOU	LIC CN MO	284.5 104.2	43.92 BLH6439	38 31 47.0 90 17 58.0	100.000 288	9.9 431	71.4 Citicasters	29.16 Licenses, L.p.	-27.71*	
277C1 St. Louis	KLOU	CP CX MO	289.5 109.2	47.45 BPH20040630ABX	38 34 24.0 90 19 30.0	90.000 336	10.4 466	74.0 Citicasters	32.30 Licenses, L.p.	-26.78*	
279D Mascoutah	W279AQ	CP C IL	0.1 180.1	5.67 BNPFT20030826ABL	38 28 58.8 89 48 41.6	0.003 57	10.4 180	3.3 Educational Media Foundati	-10.09	-15.10	
281C2 Hazelwood	WHL	APP ZCX MO	300.9 120.6	47.90 BPH20070119AGJ	38 39 08.0 90 17 03.0	33.130 163	5.6 293	50.1 Radio One	37.68 Licenses, Llc	-2.41*	
279D St. Louis	AP5676	APP C MO	294.0 113.7	49.93 BNPFT20030317ERW	38 36 46.8 90 20 08.6	0.062 190	41.7 326	12.6 Edgewater Broadcasting, In	3.49	22.60	
279D Festus	AP5622	APP C MO	242.8 62.4	54.00 BNPFT20030317DVB	38 12 31.8 90 21 37.6	0.062 143	36.8 313	10.9 Edgewater Broadcasting, In	11.96	25.95	
281C2 Jerseyville	WHL	LIC C MO	317.8 137.5	64.38 BMLH19920306KF	38 51 36.0 90 18 38.0	39.000 157	5.7 312	50.8 Radio One	53.74 Licenses, Llc	13.31	
279B Springfield	WDBR	LIC CX IL	6.7 186.8	152.22 BMLH20061002BFX	39 47 37.0 89 36 18.0	50.000 98	130.2 268	56.6 Saga Communications Of Ill	16.63	70.49	
279D House Springs	AP9963	APP C MO	263.2 82.8	64.83 BNPFT20030317KSL	38 21 40.0 90 32 54.0	0.034 250	41.7 431	12.5 New Life Evangelistic Cent	18.02	36.00	
279D Carlyle	W279AW	CP C IL	61.5 241.7	41.47 BNPFT20030825ABK	38 36 33.0 89 23 35.0	0.002 157	15.6 288	4.7 Edgewater Broadcasting, In	20.45	19.14	
280A Ava	WXAN	LIC CN IL	154.8 335.0	70.73 BLH19960916KA	37 51 19.0 89 28 06.0	2.900 128	40.8 287	26.8 Southern Gospetality, Llc	24.41	36.16	
279L1 Centralia	WJAF-LP	LIC IL	80.4 260.8	59.72 BLL20030529AFH	38 31 10.0 89 08 11.0	0.100 45	23.0 180	6.9 Day Star Christian Broadca	31.12	34.53	
281C2 Hazelwood	WHL	RSV MO	321.9 141.6	60.97	38 51 46.0 90 14 46.0	50.000 -131	2.7 0	26.5 Radio One	53.24 Licenses, Llc	34.24	
282A Pinckneyville	DWCCZ	VAC N IL	134.9 315.2	53.46	38 05 30.0 89 22 46.0	6.000 -152	1.6 0	15.8	46.33	37.48	
280D Greenville	W280DR	LIC C IL	34.4 214.7	60.91 BLFT20060705AAN	38 53 00.0 89 24 50.0	0.250 38	11.2 192	7.9 Bond Broadcasting, Inc.	44.36	45.60	
278A Christopher	WXL	LIC CN IL	126.4 307.0	93.09 BLH19971224KC	37 55 55.0 88 57 31.0	6.000 96	42.9 222	27.7 Mrr License Llc	44.66	57.60	
279D Mount Vernon	AP1122	APP DC IL	98.1 278.6	74.55 BNPFT20030317APP	38 20 04.0 88 58 03.0	0.004 32	8.3 182	2.6 Clear Channel Broadcasting	60.53	53.35	

Terrain database is NGDC 30 SEC

ERP and HAAT on direct-line with reference station.

""affixed to 'IN' or 'Out' values = site inside protected contour.

**Compliance with C.F.R. 74.1204**

The proposed FM Translator is located within the protected 60 dBu contour of second adjacent channel station KLOU, channel 277C1, St. Louis, MO. The predicted F(50-50) field strength of KLOU at the proposed translator site is 72.6 dBu, (see attached Exhibit 12A-1). Therefore, the respective predicted interfering contour generated by the proposed FM Translator is 112.6 dBu. This interfering contour extends approximately 51.9 meters from the proposed transmit antenna, and the area of overlap is unpopulated.

The proposed FM Translator is located within the protected 60 dBu contour of second adjacent channel station KLOU.C, channel 277C1, St. Louis, MO. The predicted F(50-50) field strength of KLOU at the proposed translator site is 71.9 dBu, (see attached Exhibit 12A-2). Therefore, the respective predicted interfering contour generated by the proposed FM Translator is 111.9 dBu. This interfering contour extends approximately 56.2 meters from the proposed transmit antenna, and the area of overlap is unpopulated.

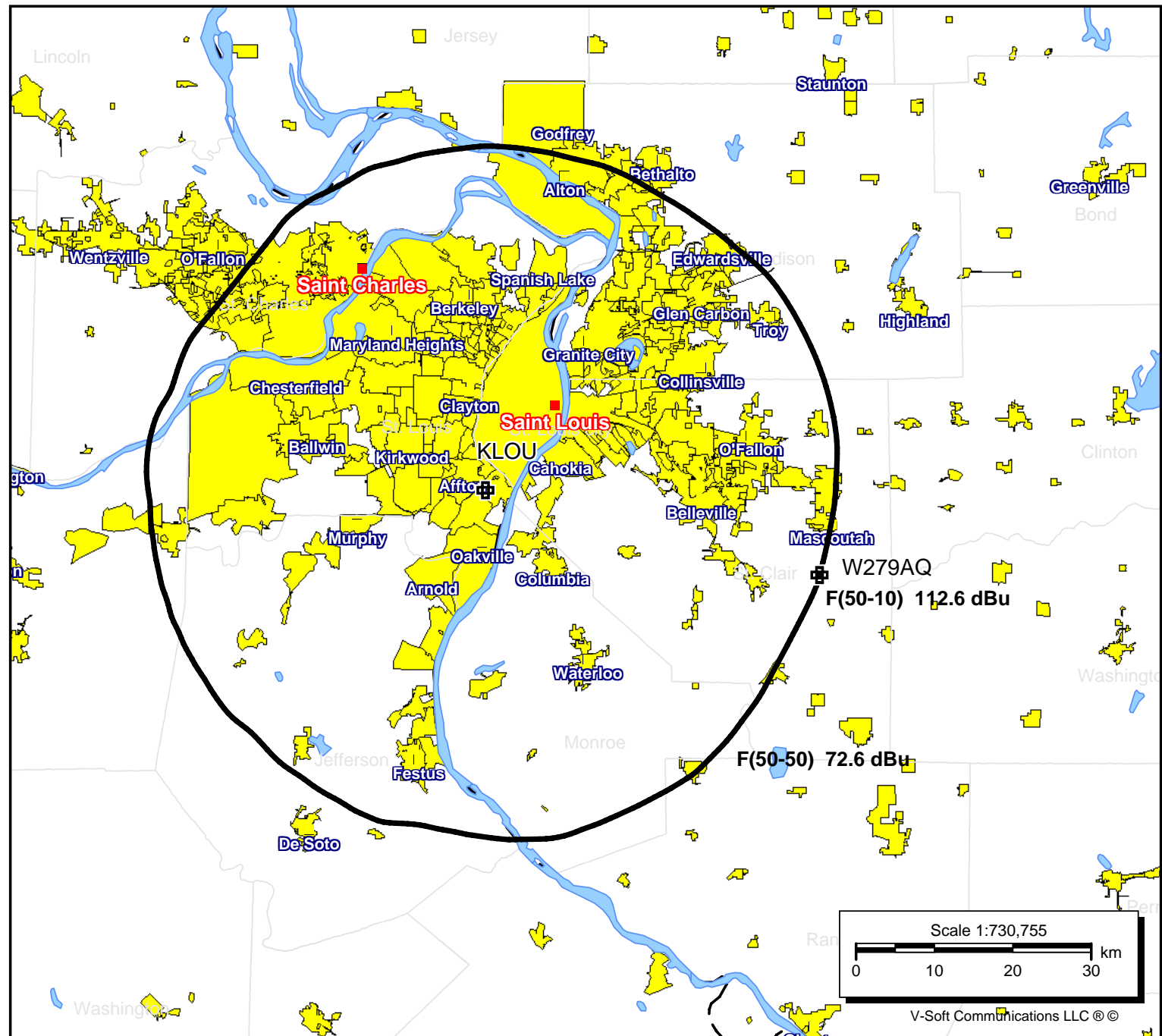
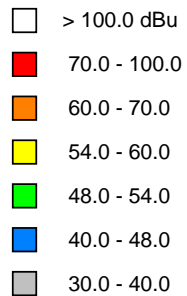
Two factors have been investigated to determine this absence of population:

- 1.) Computer software which uses the centroid method of determining population centers, based on the 2000 census data, has determined that there are no persons within the area of overlap.
- 2.) Examination of the USGS topographic map (see attached Exhibit 12C) reveals no regularly occupied structures within the area of overlap.

Therefore, EMF respectfully requests a waiver of C.F.R 74.1204 based on no population within the area of predicted interference.

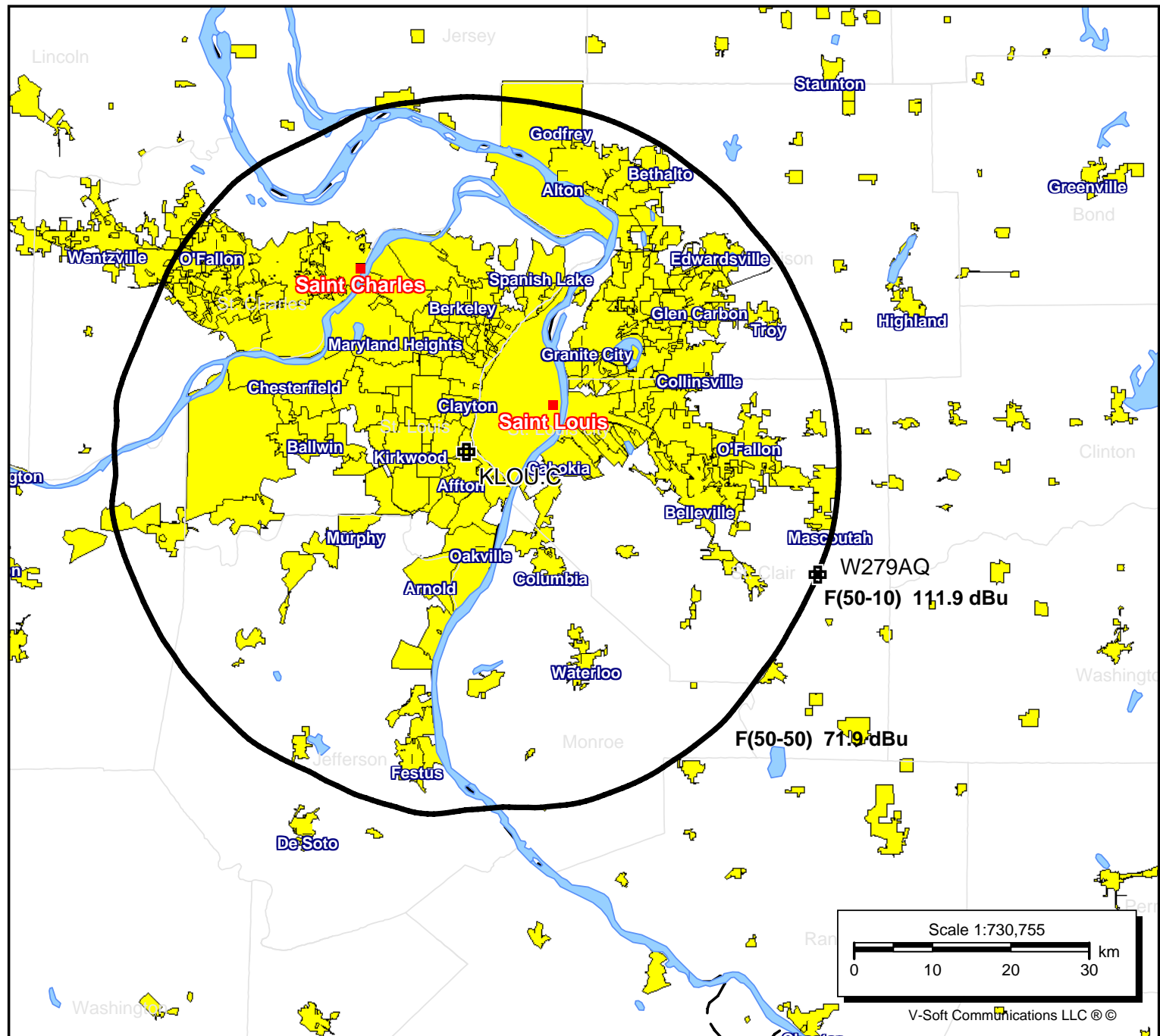
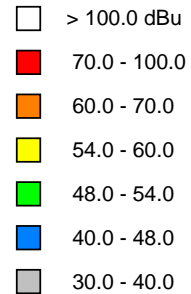
**W279AQ**

Latitude: 38-25-55 N  
Longitude: 089-48-42 W  
ERP: 0.01 kW  
Channel: 279  
Frequency: 103.7 MHz



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ERP: 0.01 kW  
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**Compliance with C.F.R. 74.1204**

The proposed FM Translator is located within the protected 60 dBu contour of second adjacent channel station WHHL, channel 281C2, Hazelwood, MO. The predicted F(50-50) field strength of WHHL at the proposed translator site is 61.0 dBu, (see attached Exhibit 12B-1). Therefore, the respective predicted interfering contour generated by the proposed FM Translator is 101.0 dBu. This interfering contour extends approximately 197.3 meters from the proposed transmit antenna, and the area of overlap is unpopulated.

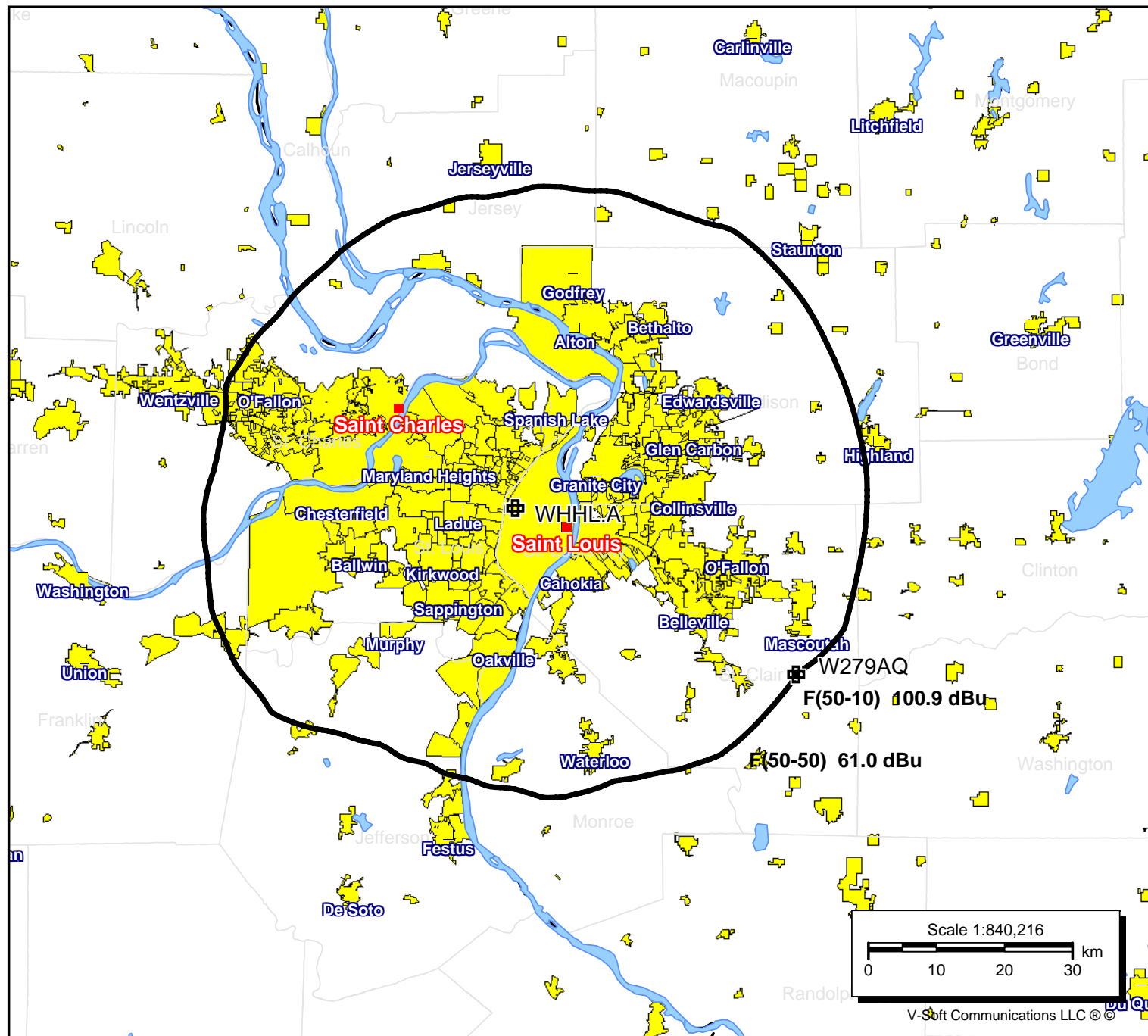
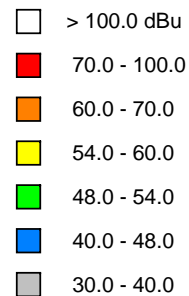
Two factors have been investigated to determine this absence of population:

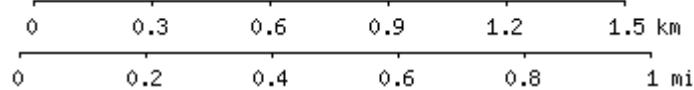
- 1.) Computer software which uses the centroid method of determining population centers, based on the 2000 census data, has determined that there are no persons within the area of overlap.
- 2.) Examination of the USGS topographic map (see attached Exhibit 12C) reveals no regularly occupied structures within the area of overlap.

Therefore, EMF respectfully requests a waiver of C.F.R 74.1204 based on no population within the area of predicted interference.

# W279AQ

Latitude: 38-25-55 N  
Longitude: 089-48-42 W  
ERP: 0.01 kW  
Channel: 279  
Frequency: 103.7 MHz





38° 25' 55"N, 89° 48' 42"W (NAD27)  
Elevation 533.7 ft / 162.7 m (USGS NED)  
**USGS Mascoutah (IL) Quadrangle**  
Projection is UTM Zone 16 NAD83 Datum

$M = -0.614$   
 $G = -1.749$