

Channel Study

REFERENCE CH# 226D - 93.1 MHz, Pwr= 0.019 kW, HAAT=73.4M, COR= 248 M DISPLAY DATES
 39 02 31 N. Average Protected F(50-50)= 5.8 km DATA 01-04-07
 90 14 59 W. Ave. F(50-10) 40 dBu= 19.2 54 dBu= 8.2 80 dBu= 1.8 100 dBu= .3 SEARCH 01-05-07

CH CITY	CALL	TYPE STATE	AZI. <--	DIST FILE #	LAT. LNG.	Pwr(kW) HAAT(M)	COR(M) INT(km)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*
229C1 St. Louis	KSD.C	CP NCX MO	187.2 7.1	52.43 BPH20050815AEI	38 34 24 90 19 30	74.000 301	466 9.4	69.4 Citicasters Licenses, L.p.	36.00	-17.30*
229C1 St. Louis	KSD	LIC CN MO	187.7 7.7	53.09 BLH19800129AA	38 34 05 90 19 55	100.000 255	418 9.3	68.7 Citicasters Licenses, L.p.	36.67	-15.90*
227D Brighton	W227AZ	CP C IL	70.2 250.3	10.02 BNPFT20030826AFH	39 04 20 90 08 26	0.019 93	271 9.3	6.6 Radio Assist Ministry, Inc	-4.53	-3.90
227D White Hall	W227AR	CP C IL	344.4 164.4	47.04 BNPFT20030821ADI	39 27 00 90 23 49	0.013 122	281 9.6	6.9 Radio Assist Ministry, Inc	31.40	31.72
225C1 Hannibal	KGRC	LIC C MO	308.0 127.2	125.49 BLH20001218AAF	39 43 48 91 24 19	100.000 157	328 89.0	59.3 Staradio Corporation	31.04	58.56
226D Montgomery City	AP7201	APP C MO	266.5 85.7	108.55 BNPFT20030317BIX	38 58 30 91 30 00	0.250 111	347 46.3	13.5 Covenant Network	56.75	76.85
224D Fairview Heights	AP8674	APP C IL	159.4 339.6	53.33 BNPFT20030317IMB	38 35 32 90 02 02	0.115 149	274 0.8	12.9 Educational Media Foundati	46.62	40.07
224B1 Taylorville	WQLZ	LIC CN IL	43.1 223.6	92.13 BLH19930528KE	39 38 38 89 30 51	11.500 140	322 3.8	43.9 Long Nine, Inc.	82.75	47.82
226A Decatur	WYDS	LIC ZC IL	52.2 233.0	136.29 BMLH20020503AAQ	39 47 11 88 59 29	4.600 119	311 85.6	28.8 Wejt, Inc.	45.11	89.11
225D Oakville	AP6780	APP C MO	176.9 356.9	65.62 BNPFT20030317JFT	38 27 06 90 12 33	0.250 68	194 15.2	10.8 Radio Assist Ministry, Inc	43.68	45.39
228D Viriden	W228BP	CP C IL	40.2 220.5	63.58 BNPFT20030828AKD	39 28 39 89 46 17	0.120 39	236 0.8	6.7 Community Broadcasting, In	57.22	56.60
227C2 Steelville	KNSX	LIC C MO	213.7 33.2	124.87 BLH20031121AOF	38 06 16 91 02 30	10.250 361	577 80.0	54.2 Twenty-one Sound Communica	38.44	61.56
227D Pittsfield	AP7798	APP C IL	320.2 139.9	79.62 BNPFT20030317FIY	39 35 27 90 50 38	0.013 119	314 9.5	6.8 Radio Assist Ministry, Inc	64.65	65.24
227A Ramsey	WTRH	LIC NC IL	83.7 264.4	99.96 BMLH20041015ADW	39 08 06 89 06 02	3.000 133	319 41.7	27.4 Countryside Broadcasting,	52.87	65.05

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.

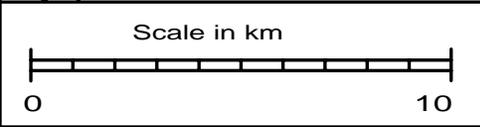
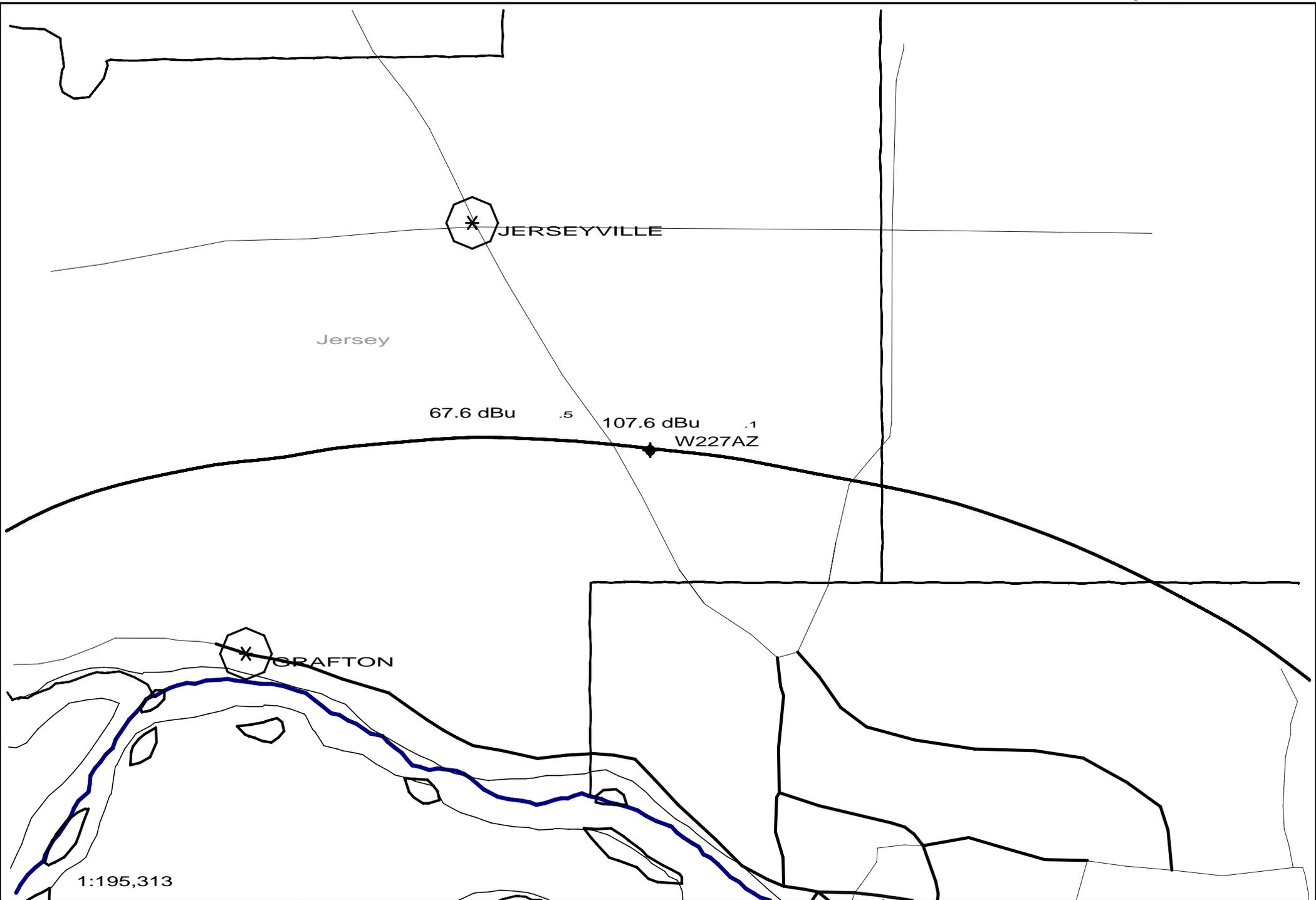
Compliance with C.F.R. 74.1204

The proposed FM Translator is located within the protected 60 dBu contour of third adjacent channel station KSD.C, channel 229C1, St. Louis, MO. The predicted F(50-50) field strength of KSD.C at the proposed translator site is 67.6 dBu, (see Exhibit 12A-1). Therefore, the respective predicted interfering contour generated by the proposed FM Translator is 107.6 dBu. This interfering contour extends approximately 127.2 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 (Exhibit 12C) and aerial photo (Exhibit 12D) reveal 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.



W227AZ 226D .019kW 249M AMSL
N. Lat. 39 02 31 W. Lng. 90 14 59

W227AZ vs. KSD.C
EMF - 1/07

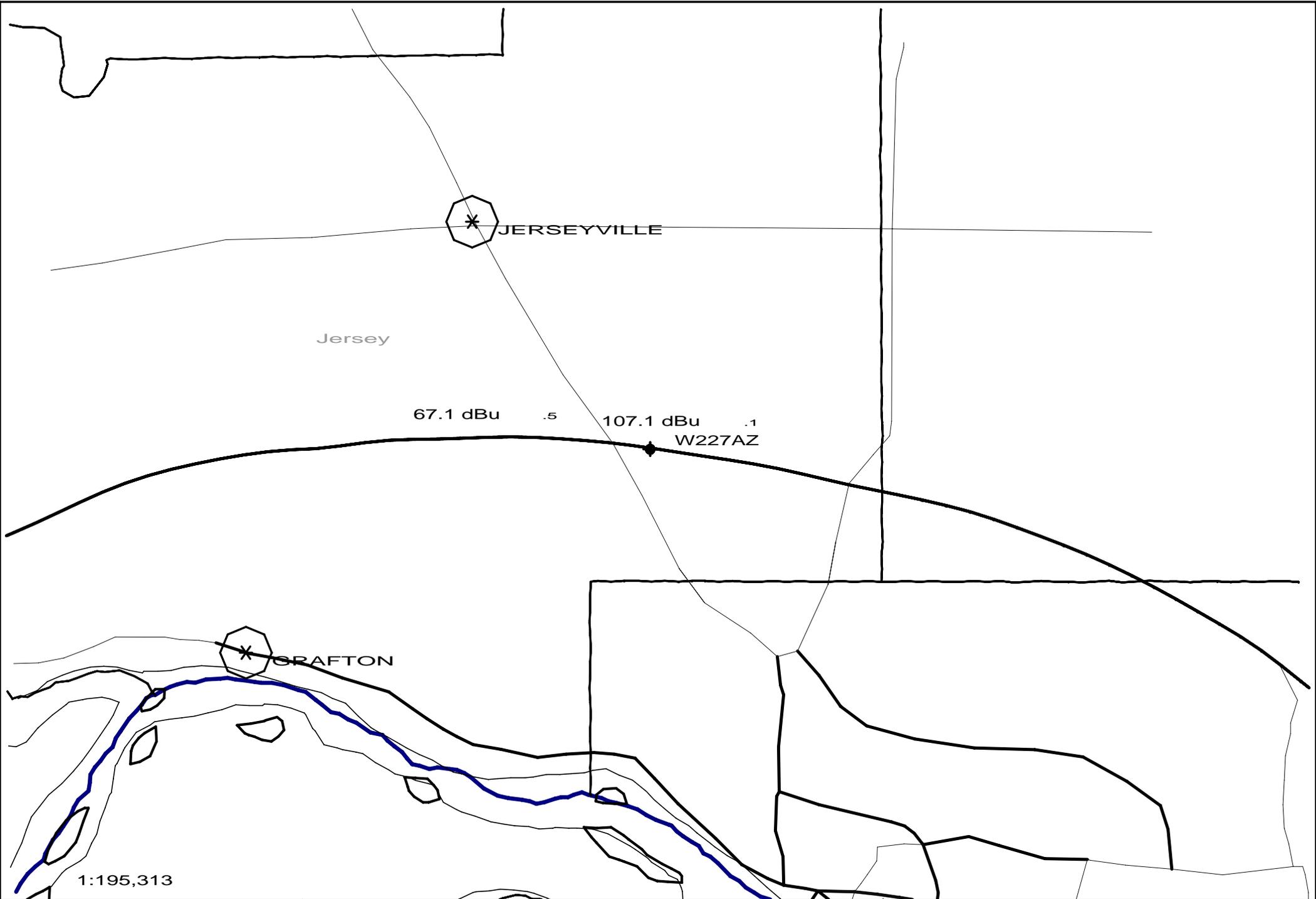
Compliance with C.F.R. 74.1204

The proposed FM Translator is located within the protected 60 dBu contour of third adjacent channel station KSD, channel 229C1, St. Louis, MO. The predicted F(50-50) field strength of KSD at the proposed translator site is 67.1 dBu, (see Exhibit 12B-1). Therefore, the respective predicted interfering contour generated by the proposed FM Translator is 107.1 dBu. This interfering contour extends approximately 134.7 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 (Exhibit 12C) and aerial photo (Exhibit 12D) reveal 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.



1:195,313

Scale in km

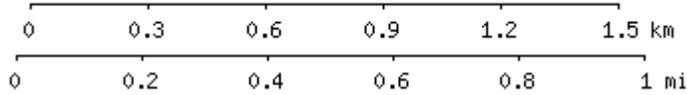
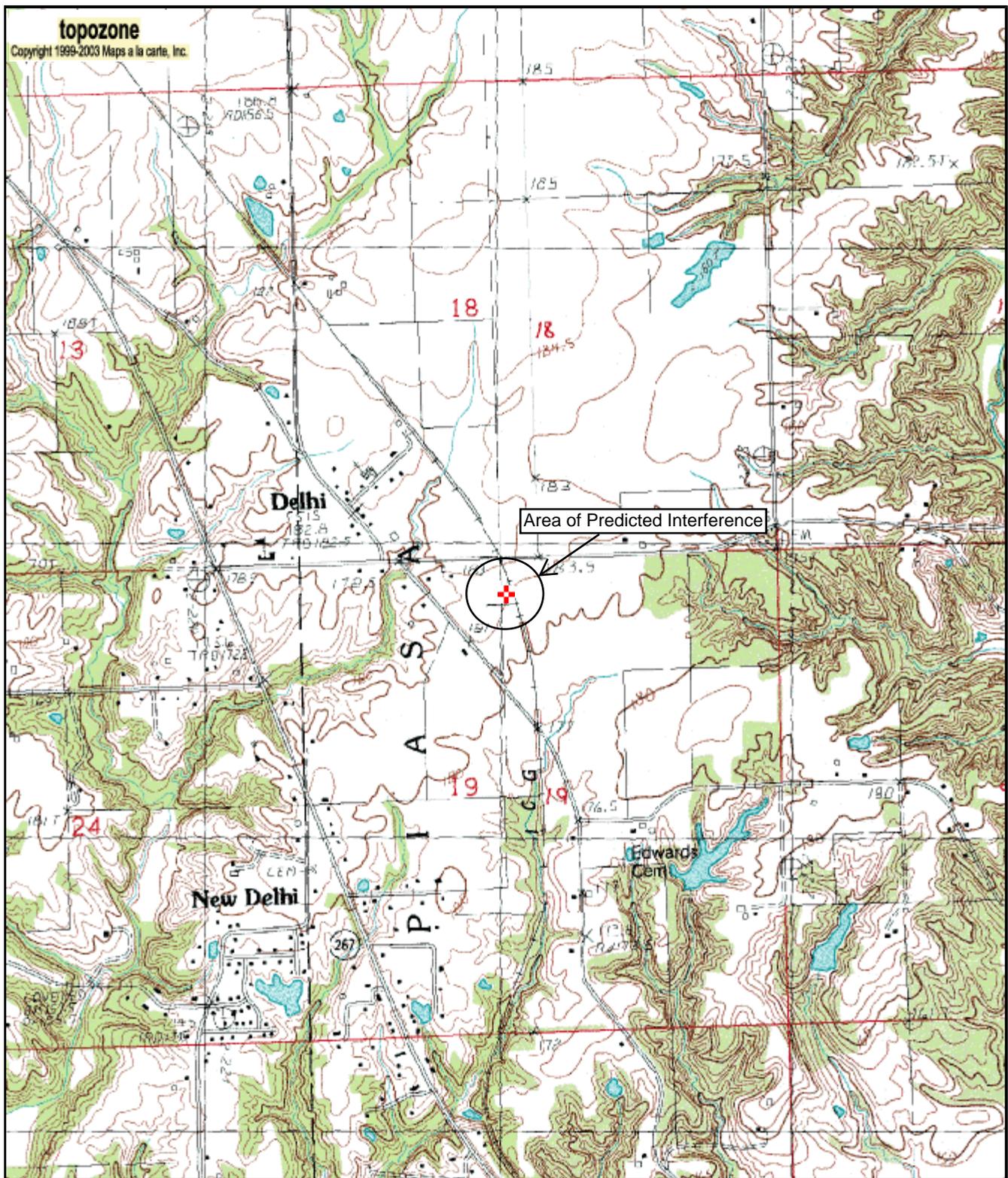


W227AZ 226D .019kW 249M AMSL

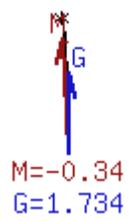
N. Lat. 39 02 31 W. Lng. 90 14 59

W227AZ vs. KSD

EMF - 1/07



39° 02' 31"N, 90° 14' 59"W (NAD27)
Elevation 600.5 ft / 183.0 m (USGS NED)
USGS Brighton (IL) Quadrangle
Projection is UTM Zone 15 NAD83 Datum





topozone
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39° 02' 31"N, 90° 14' 59"W (NAD27)
USGS Brighton (IL) Quadrangle
Projection is UTM Zone 15 NAD83 Datum

