

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

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.

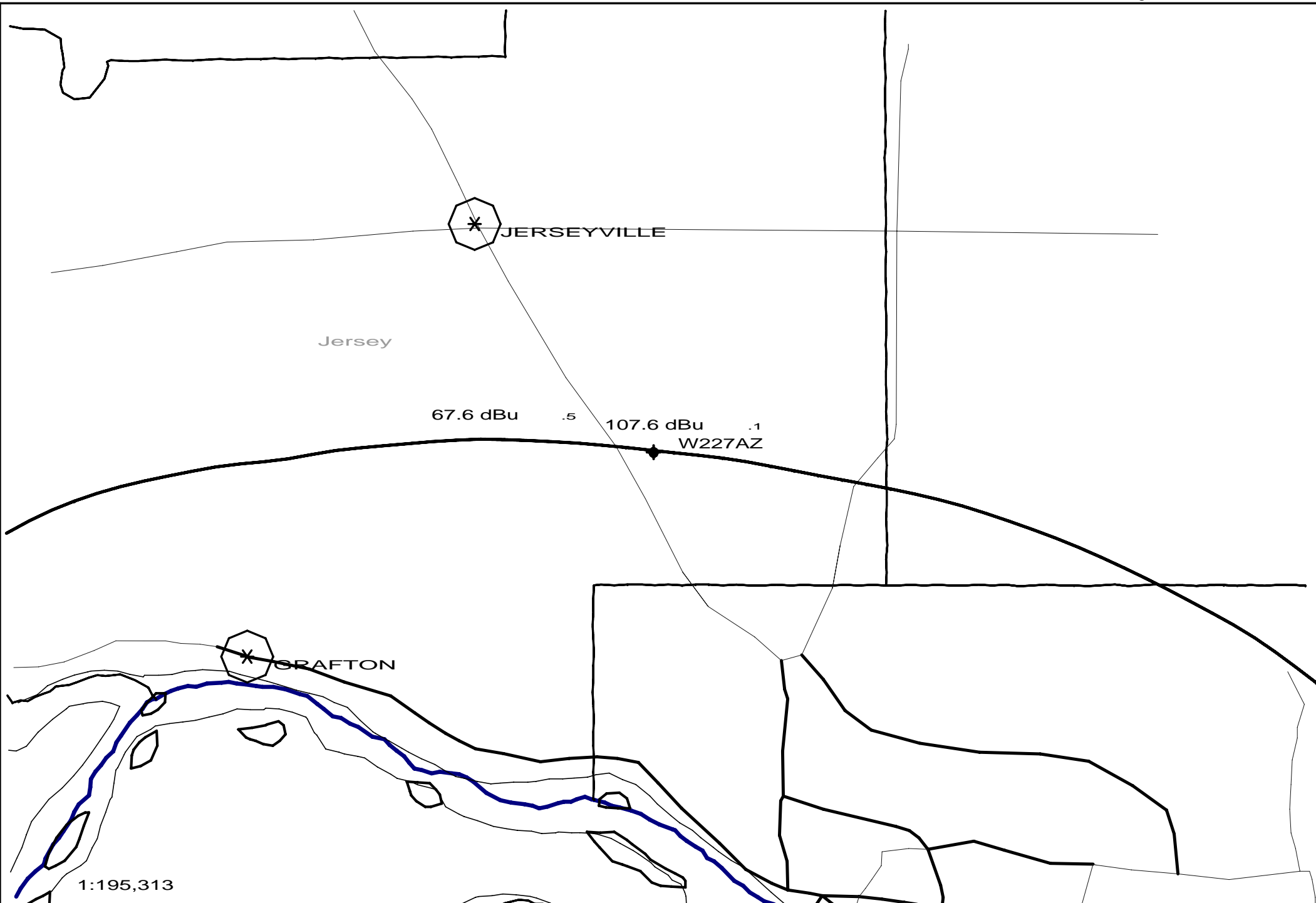
Compliance with C.F.R. 74.1204

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:

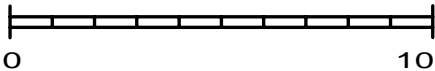
- 1.) Computer software which uses the centroid method of determining population centers, based on the 2000 census data, has determined that there are no persons within the area of overlap.
- 2.) Examination of the USGS topographic map (Exhibit 12C) and aerial photo (Exhibit 12D) reveal no regularly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



1:195,313

Scale in km



W227AZ 226D .019kW 249M AMSL

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

W227AZ vs. KSD.C

EMF - 1/07

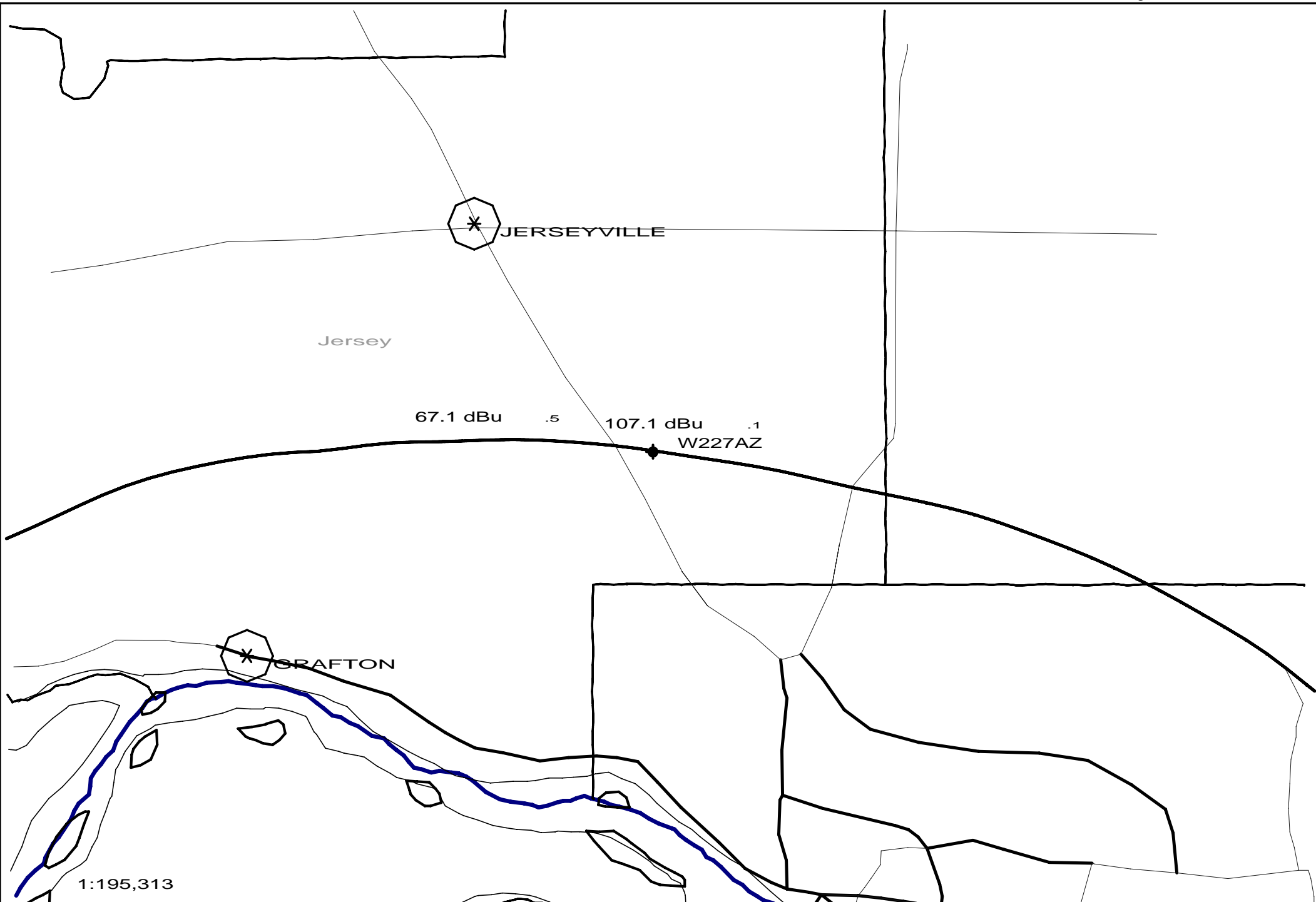
Compliance with C.F.R. 74.1204

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.

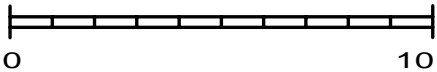
Two factors have been investigated to determine this absence of population:

- 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.



Scale in km

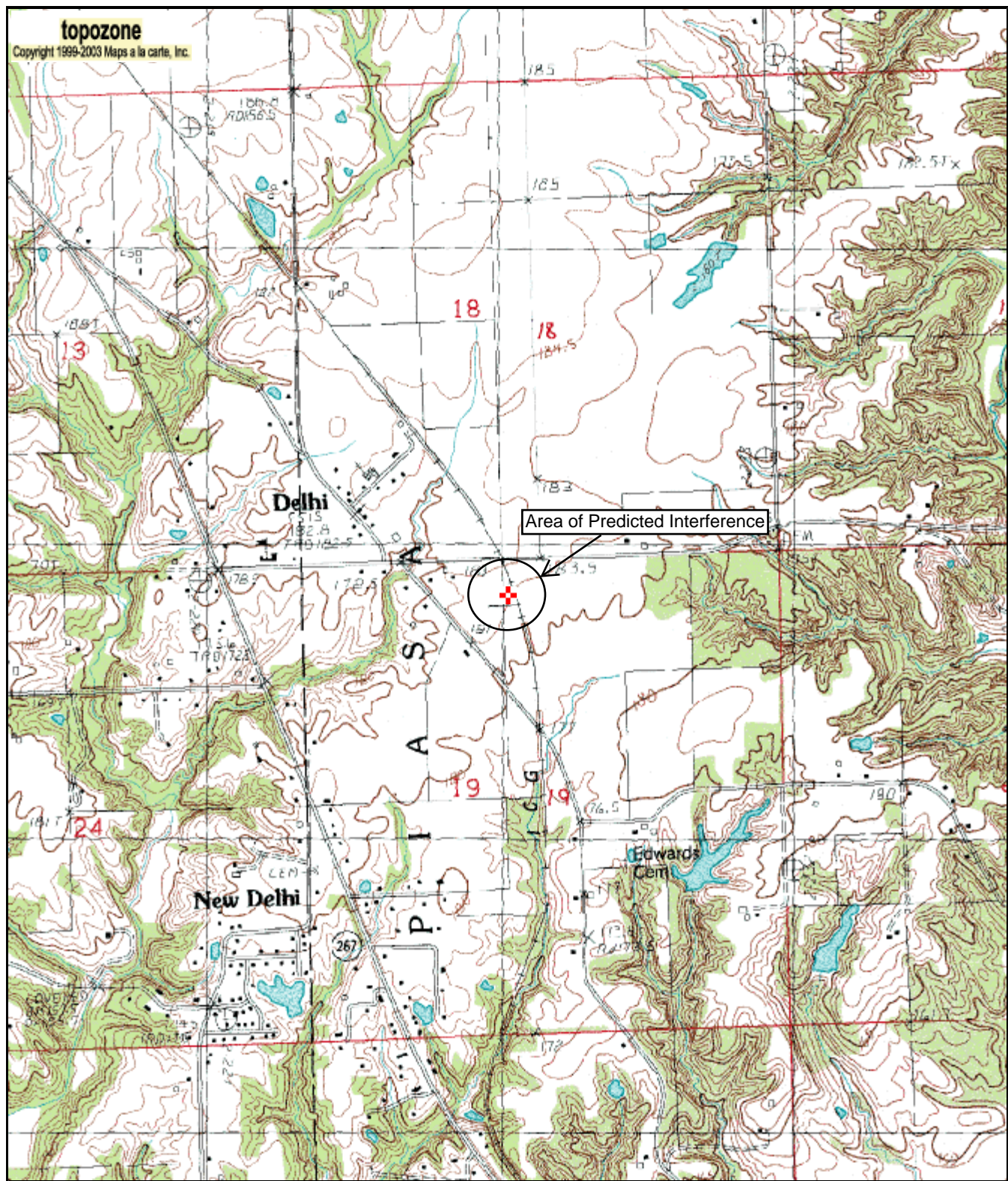


W227AZ 226D .019kW 249M AMSL

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

W227AZ vs. KSD

EMF - 1/07



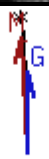
39° 02' 31"N, 90° 14' 59"W (NAD27)
Elevation 600.5 ft / 183.0 m (USGS NED)
USGS Brighton (IL) Quadrangle
Projection is UTM Zone 15 NAD83 Datum

M=-0.34
G=1.734



0 0.1 0.2 0.3 0.4 0.5 km
0 0.09 0.18 0.27 0.36 0.45 mi

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


M=-0.34
G=1.734