

## Channel Study

REFERENCE		CH# 249D - 97.7 MHz, Pwr= 0.17 kW, HAAT=40.5M, COR= 316 M								DISPLAY DATES	
45 07 36 N.		Average Protected F(50-50)= 7.4 km								DATA 01-27-07	
93 25 26 W.		Ave. F(50-10) 40 dBu= 24.9 54 dBu= 10.6 80 dBu= 2.4 100 dBu= .9								SEARCH 01-30-07	
CH	CALL	TYPE	AZI.	DIST	LAT.	Pwr(kW)	COR(M)	PRO(km)	*IN*	*OUT*	
CITY	STATE	STATE	<--	FILE #	LNG.	HAAT(M)	INT(km)	LICENSEE	(Overlap in km)		
246C	KTCZ-F	LIC	CN	107.8	24.79	45 03 30	100.000	593	74.4	5.45	-50.56*
Minneapolis	MN			288.0	BLH19910814KC	93 07 27	328	10.6	Amfm Broadcasting Licenses		
251C	WWJO	LIC	CY	328.6	89.83	45 48 52	100.000	669	72.7	72.28	16.16
St. Cloud	MN			148.2	BLH19890117KF	94 01 38	305	10.2	Regent Licensee Of St. Clo		
248D	K248BK	CP	C	304.2	11.97	45 11 13	0.070	374	9.4	-7.57	-6.62
Albertville	MN			124.1	BNPFT20030829ACP	93 33 00	98	13.1	Educational Media Foundati		
248C	KNXR	LIC	C	144.2	148.18	44 02 28	100.000	671	73.9	32.86	62.77
Rochester	MN			325.0	BLH19990505KB	92 20 25	320	107.2	United Audio Corporation		
249C3	WAQE-F	LIC	NC	70.0	137.92	45 32 16	15.500	455	33.2	28.38	76.78
Barron	WI			251.2	BLH20010412AAH	91 45 50	88	101.1	Tkc, Inc.		
249A	KLGR-F	LIC	CN	244.9	149.90	44 32 33	3.000	400	24.8	66.58	103.59
Redwood Falls	MN			63.7	BLH6258	95 07 57	105	76.9	Three Eagles Of Luverne, I		

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 KTCZ-F, channel 246C, Minneapolis, MN. The predicted F(50-50) field strength of KTCZ-F at the proposed translator site is 85.1 dBu, (see attached Exhibit 12A-1). Therefore, the respective predicted interfering contour generated by the proposed FM Translator is 125.1 dBu. This interfering contour extends approximately 50.7 meters from the proposed transmit antenna, and the area of overlap is unpopulated.

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

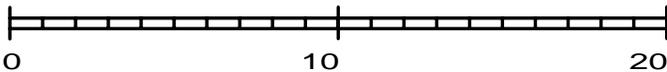
- 1.) Computer software which uses the centroid method of determining population centers, based on the 2000 census data, has determined that there are no persons within the area of overlap.
- 2.) Examination of the USGS topographic map (see attached Exhibit 12A-2) reveals no regularly occupied structures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



1:250,000

Scale in km

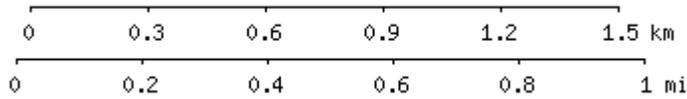
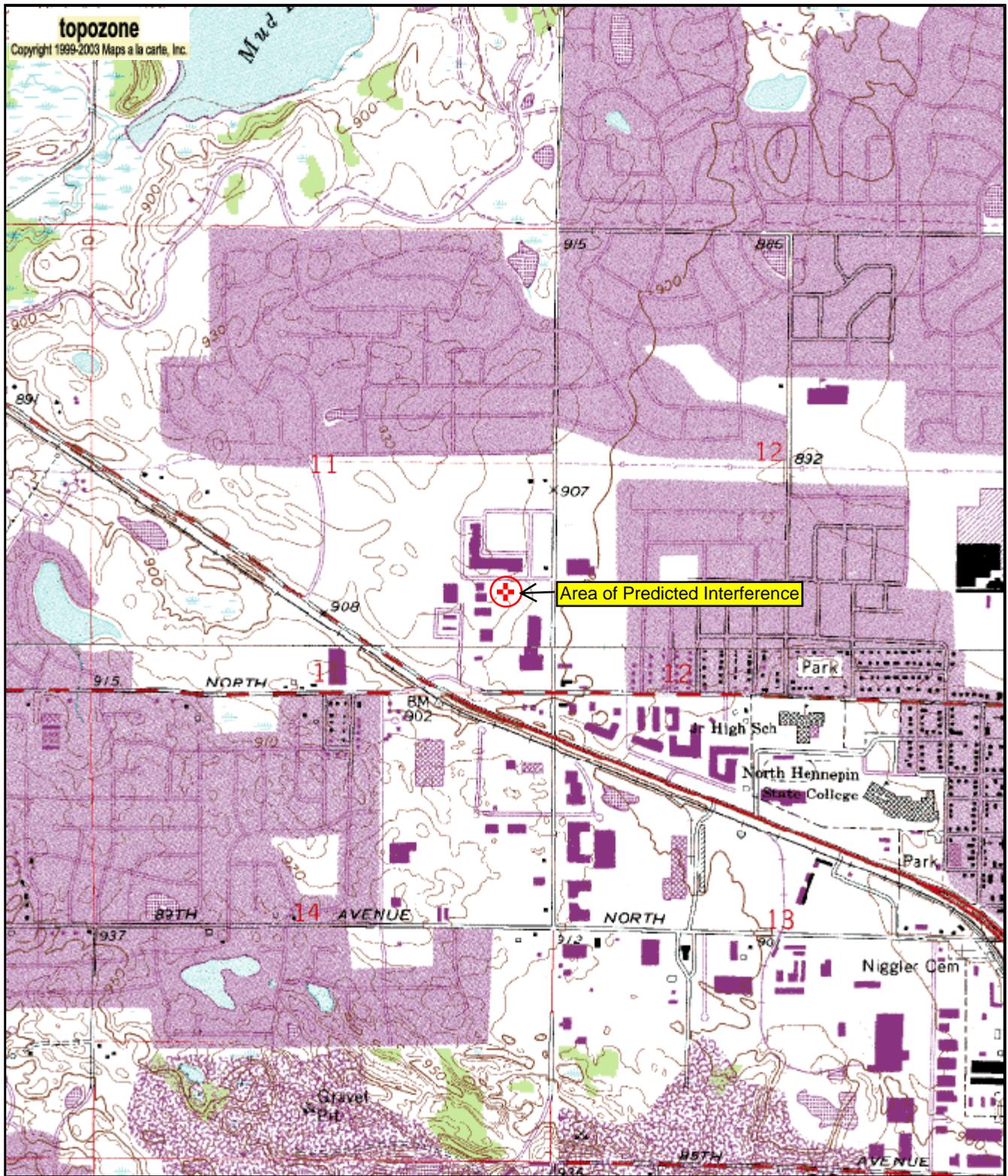


K248BK 249D .17kW 316M AMSL

N. Lat. 45 07 36 W. Lng. 93 25 26

K248BK

EMF - 01/07



45° 07' 36"N, 93° 25' 26"W (NAD27)  
**USGS Anoka (MN) Quadrangle**  
Projection is UTM Zone 15 NAD83 Datum

M  
G  
M=1.571  
G=-0.301