

## Channel Study

REFERENCE		CH# 300D - 107.9 MHz, Pwr= 0.12 kW, HAAT=26.8M,		COR= 293 M		DISPLAY DATES				
40 38 03.0 N.		Average Protected F(50-50)= 5.9 km				DATA 06-26-07				
84 12 29.0 W.						SEARCH 06-26-07				
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*
300D Lima	W300BB	CP C OH	39.8	10.94	40 42 35.0	0.013	21.4	6.4	-16.59	-16.07
			219.8	BMPFT20040719AAD	84 07 30.0	106	364	Educational Media Foundati		
298A Fort Shawnee	WZRZ-FM	LIC C OH	72.3	10.90	40 39 50.0	1.350	2.1	25.2	2.95	-15.09*
			252.3	BLH20040820AAZ	84 05 07.0	165	427	Jacor Broadcasting Corpora		
300A New Haven	WJFX	LIC ZC IN	301.3	84.19	41 01 26.0	3.200	81.6	27.4	-4.06	34.66
			120.8	BLH20000802AAG	85 03 51.0	128	376	Fort Wayne Radio Corp.		
299B Dayton	WMMX	LIC CX OH	180.1	101.29	39 43 19.0	28.000	78.3	65.9	17.12	23.56
			0.1	BLH20020823AAW	84 12 36.0	211	467	Citicasters Licenses, L.p.		
300A Delaware	WODB	LIC CN OH	111.4	116.72	40 14 43.0	2.600	84.1	29.3	26.74	67.90
			292.2	BLH19980130KC	82 55 48.0	166	443	Franklin Communications, I		
299A North Baltimore	WPFZ-FM	LIC CN OH	45.9	77.58	41 07 04.0	3.000	34.9	23.2	36.76	45.95
			226.3	BLH19900515KD	83 32 38.0	92	334	Citicasters Licenses, L.p.		

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 WZRZ, channel 298A, Fort Shawnee, OH. The predicted F(50-50) field strength of WZRZ at the proposed translator site is 74.8 dBu, (see Exhibit 12A-1). Therefore, the respective predicted interfering contour generated by the proposed FM Translator is 114.8 dBu. This interfering contour extends approximately 139.5 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 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.

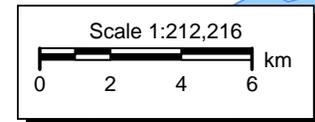
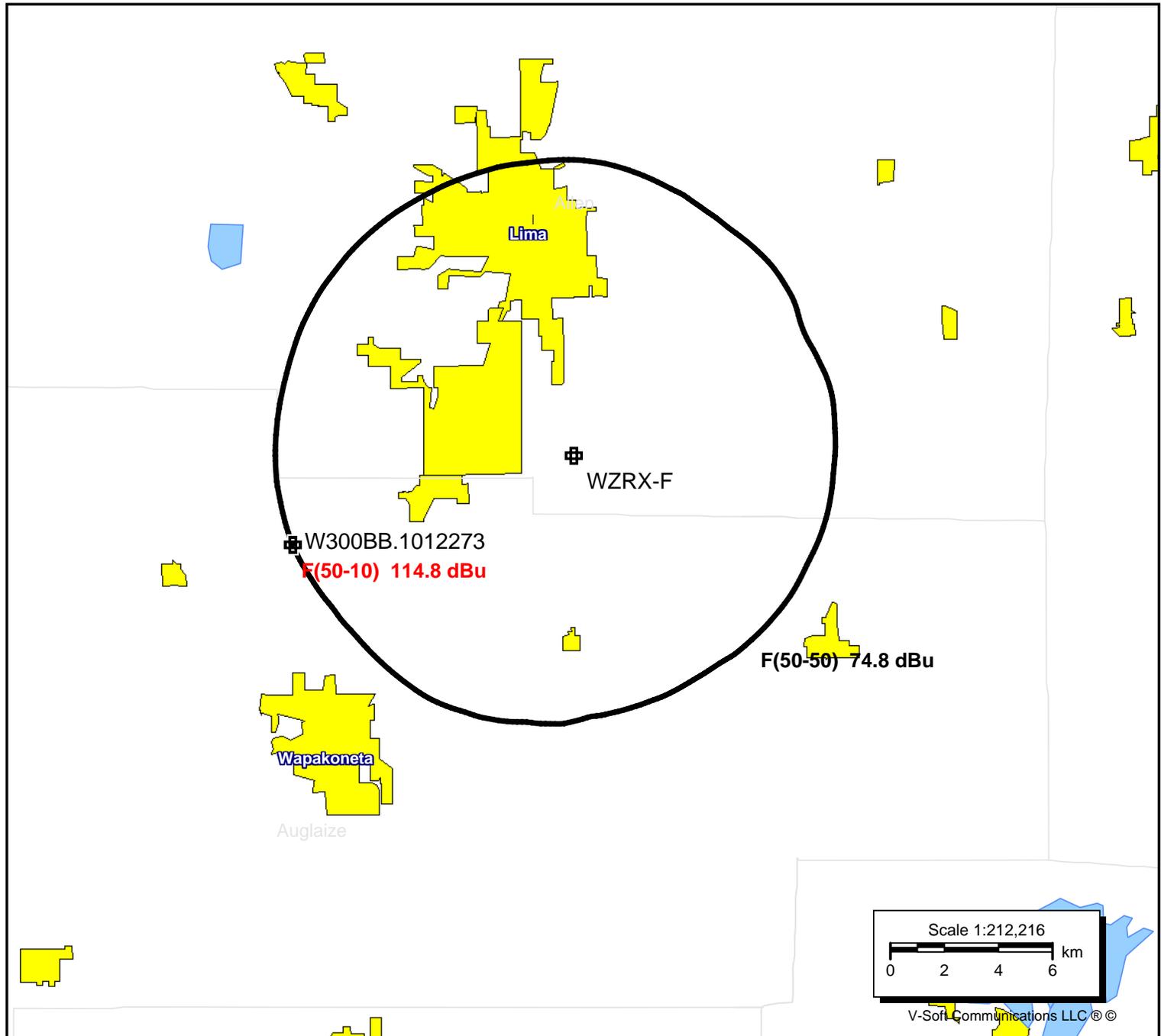
**W300BB.1012273**

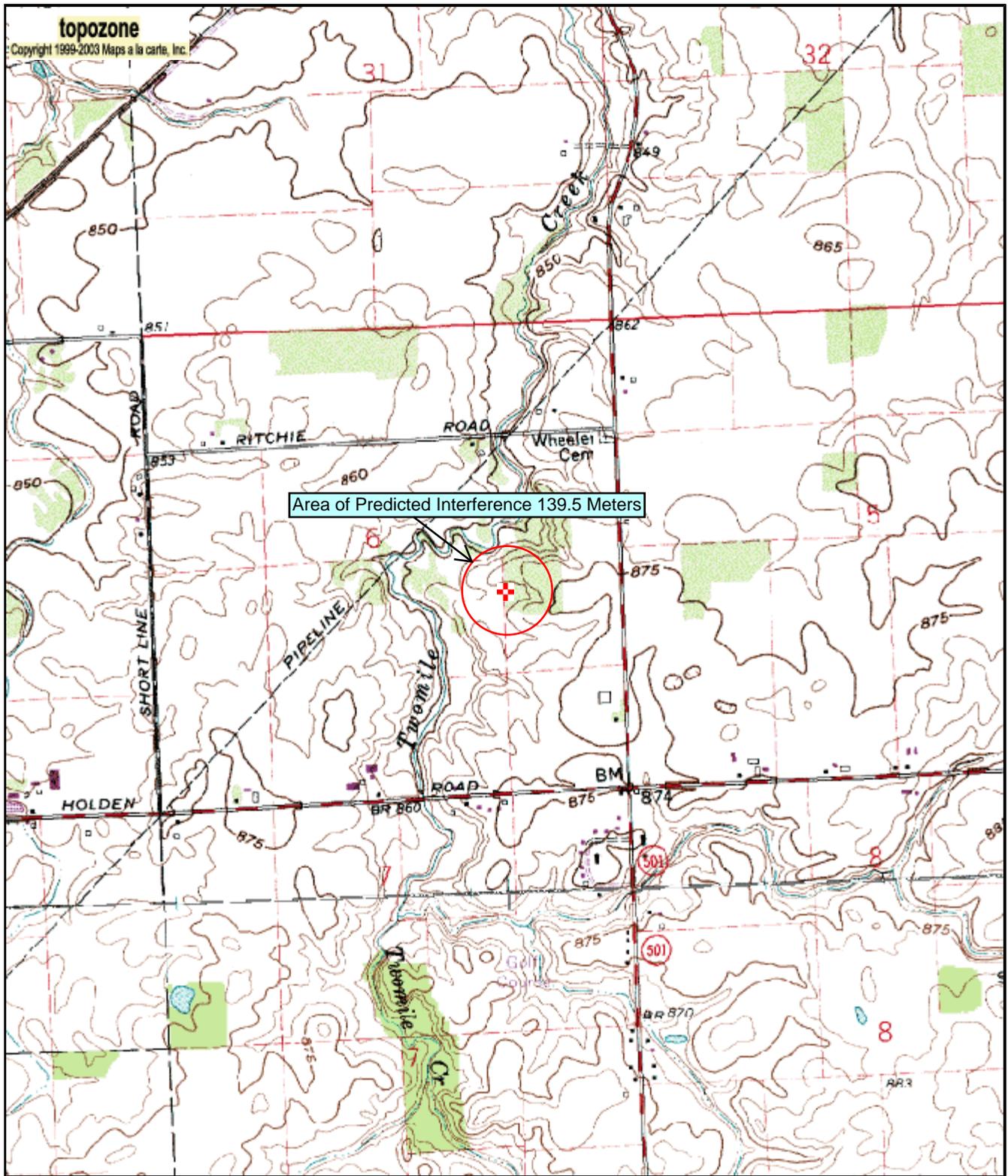
Latitude: 40-38-03 N  
Longitude: 084-12-29 W  
ERP: 0.12 kW  
Channel: 201  
Frequency: 88.1 MHz  
AMSL Height: 293.0 m  
Horiz. Pattern: Omni  
Vert. Pattern: No  
Prop Model: None

**WZRZ-F**

BLH20040820AAZ  
Latitude: 40-39-50 N  
Longitude: 084-05-07 W  
ERP: 1.35 kW  
Channel: 298  
Frequency: 107.5 MHz  
AMSL Height: 427.0 m  
Horiz. Pattern: Omni  
Vert. Pattern: No  
Prop Model: None

- W300BB.1012273
- WZRZ-F





40° 38' 03"N, 84° 12' 29"W (NAD27)  
**WIMT-FM (Lima), USGS Cridersville (OH) Quadrangle**  
Projection is UTM Zone 16 NAD83 Datum

Mk  
G  
M=-5.746  
G=1.82