

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	39.8 219.8	10.94 BMPFT20040719AAD	40 42 35.0 84 07 30.0	0.013 106	21.4 364	6.4 Educational Media Foundati	-16.59	-16.07	
298A Fort Shawnee	WZRX-FM	LIC C OH	72.3 252.3	10.90 BLH20040820AAZ	40 39 50.0 84 05 07.0	1.350 165	2.1 427	25.2 Jacor Broadcasting Corpora	2.95	-15.09*	
300A New Haven	WJFX	LIC ZC IN	301.3 120.8	84.19 BLH20000802AAG	41 01 26.0 85 03 51.0	3.200 128	81.6 376	27.4 Fort Wayne Radio Corp.	-4.06	34.66	
299B Dayton	WMMX	LIC CX OH	180.1 0.1	101.29 BLH20020823AAW	39 43 19.0 84 12 36.0	28.000 211	78.3 467	65.9 Citicasters Licenses, L.p.	17.12	23.56	
300A Delaware	WODB	LIC CN OH	111.4 292.2	116.72 BLH19980130KC	40 14 43.0 82 55 48.0	2.600 166	84.1 443	29.3 Franklin Communications, I	26.74	67.90	
299A North Baltimore	WPFX-FM	LIC CN OH	45.9 226.3	77.58 BLH19900515KD	41 07 04.0 83 32 38.0	3.000 92	34.9 334	23.2 Citicasters Licenses, L.p.	36.76	45.95	
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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 WZRX, channel 298A, Fort Shawnee, OH. The predicted F(50-50) field strength of WZRX 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.

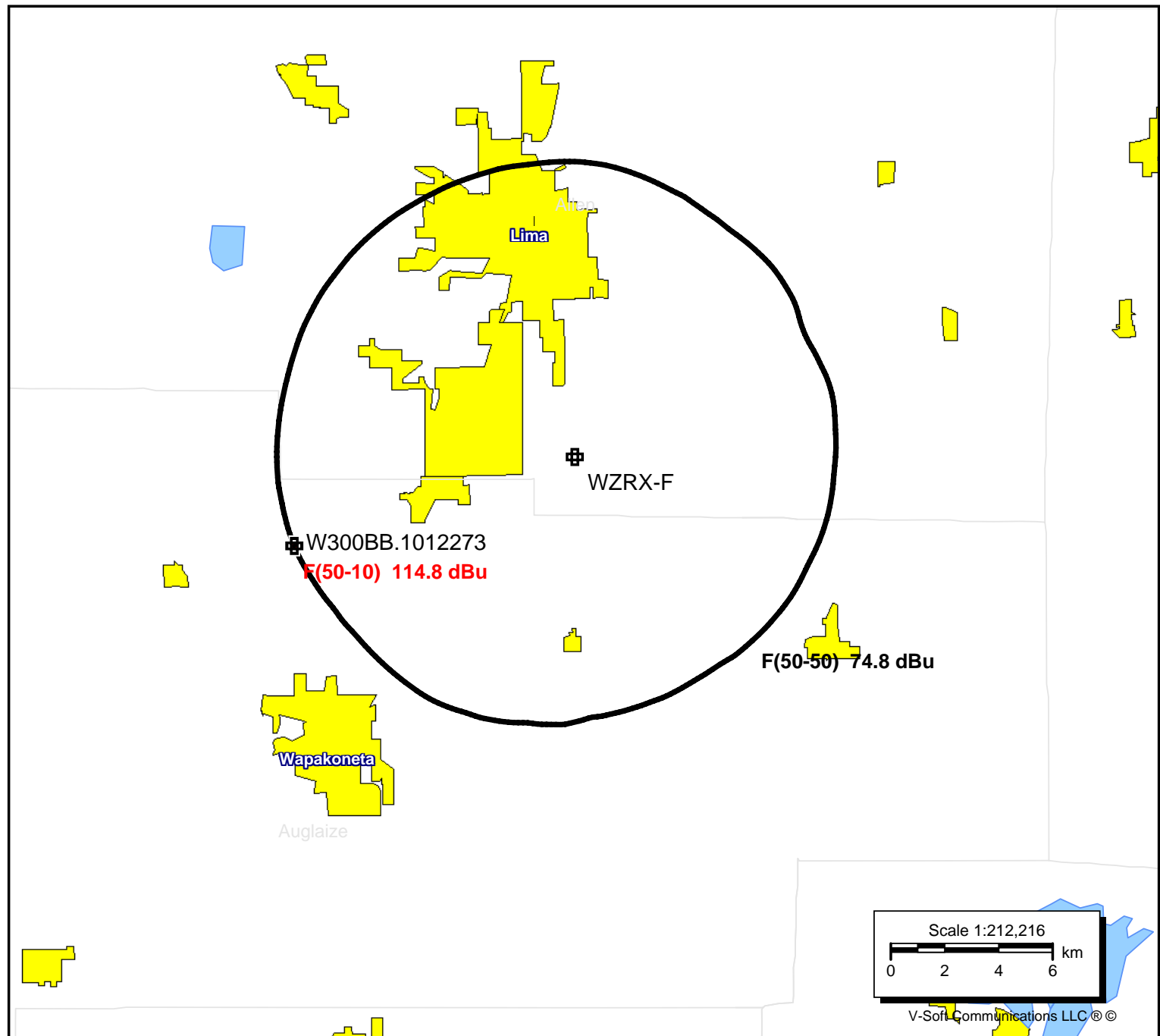
**W300BB.1012273**

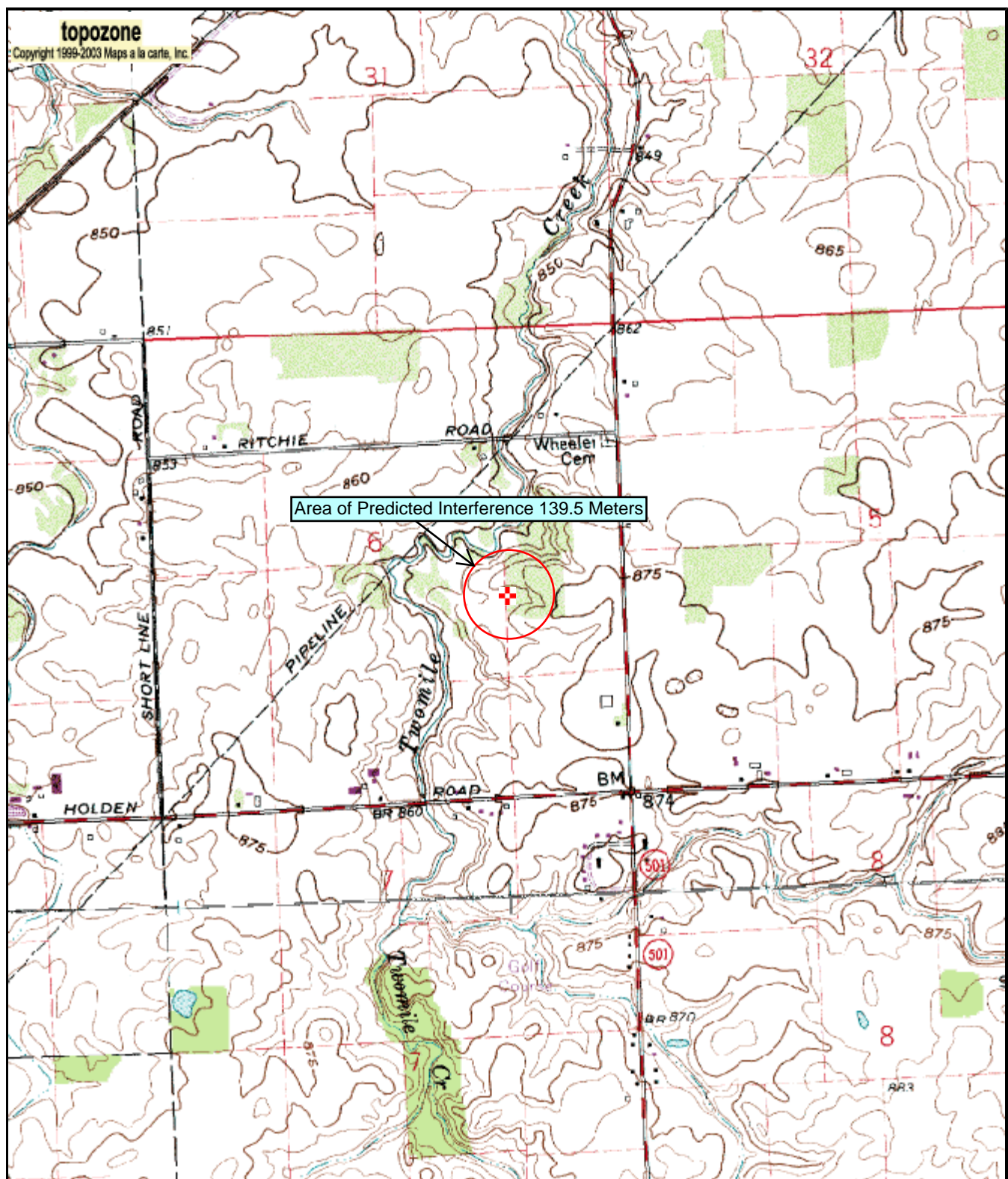
Latitude: 40-38-03 N  
Longitude: 084-12-29 W  
ERP: 0.12 kW  
Channel: 201  
Frequency: 88.1 MHz  
AMSL Height: 293.0 m  
Horiz. Pattern: Omni  
Vert. Pattern: No  
Prop Model: None

**WZR-X-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  
■ WZR-X-F





0 0.3 0.6 0.9 1.2 1.5 km  
0 0.2 0.4 0.6 0.8 1 mi

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

Mk  
A G  
M=-5.746  
G=1.82