

**Channel Study**

REFERENCE 41 29 13.0 N. 81 41 00.0 W.		CH# 220D - 91.9 MHz, Pwr= 0.01 kW, HAAT=106.4M, COR= 322 M Average Protected F(50-50)= 6.0 km						DISPLAY DATES DATA 06-21-07 SEARCH 06-21-07			
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*	
220D Parma	W273AV	CP C OH	0.0 0.0	0.00 BMPFT20040827ABZ	41 29 13.0 81 41 00.0	0.010 158	24.5 329	7.3 Educational Media Foundati	-31.65*	-31.22*	
220B1 Brunswick	AP9464	APP ZCX OH	198.5 18.3	68.52 BNPED20000118AAK	40 54 06.0 81 56 31.0	20.000 128	113.1 439	41.2 Csn International	-49.32	12.67	
222B Cleveland Heights	WKRI	LIC DEN OH	107.2 287.3	16.81 BLH19891128KA	41 26 32.0 81 29 28.0	25.793 209	5.8 465	52.2 Cbs Radio Stations Inc.	7.34	-35.80*	
220B1 Wadsworth	AP1973	APP DCX OH	201.1 20.9	70.07 BNPED20000118AAR	40 53 53.0 81 58 59.0	11.500 117	100.2 435	35.4 Educational Media Foundati	-34.96	19.25	
220B1 Wadsworth	AP0154	APP DCX OH	201.1 20.9	70.07 BNPED20000118AAR	40 53 53.0 81 58 59.0	11.500 117	100.2 435	35.4 Educational Media Foundati	-34.96	19.25	
220B1 Wadsworth	AP2387	APP ZCX OH	201.5 21.3	69.51 BNPED20000118AEN	40 54 16.0 81 59 11.0	10.000 119	98.0 438	34.6 Mary V. Harris Foundation	-33.40	19.46	
220B1 Wadsworth	AP2160	APP ZCN OH	201.5 21.3	69.51 BNPED20000118AEN	40 54 16.0 81 59 11.0	10.000 119	98.0 438	34.6 Mary V. Harris Foundation	-33.40	19.46	
220B1 Wooster	990407ME	APP DCX OH	201.5 21.3	69.51 BPED19990407ME	40 54 16.0 81 59 11.0	7.800 119	93.9 438	32.6 The Cedarville University	-29.24	21.42	
218A Bainbridge	WKHR	LIC C OH	94.4 274.7	32.63 BLED20011116ABQ	41 27 49.0 81 17 38.0	0.750 177	1.6 480	22.8 Kenston Local School Distr	27.51	9.60	
06Z2 Stevenson	CIII-D	AP HN ON	314.1 133.6	92.23 BPFS20041023AAN	42 03 41.0 82 29 05.0	3.000 300		68.1	69.2R	23.0M	
217A Akron	WAPS	LIC DCX OH	169.8 349.9	47.64 BLED20021122AAD	41 03 53.0 81 34 59.0	0.641 110	1.6 424	17.4 Board Of Education, Akron	40.63	29.98	
219D Wadsworth	W219BT	LIC CN OH	185.7 5.7	47.09 BLFT19990510UB	41 03 54.0 81 44 21.0	0.019 76	8.4 423	5.9 Educational Media Foundati	34.49	35.22	
218A Oberlin	WOBC-FM	LIC CX OH	244.7 64.3	49.91 BLED20041014ADB	41 17 38.0 82 13 20.0	1.000 51	1.6 278	13.1 Oberlin College Student Ne	42.38	36.63	
220A Meadville	WVME	LIC CX PA	82.2 263.2	126.65 BLED20020808AAO	41 37 50.0 80 10 38.0	4.400 122	85.4 486	28.8 The Moody Bible Institute	36.94	84.43	
223B Alliance	WZKL	LIC DEX OH	147.9 328.3	91.24 BMLH20021205ABW	40 47 25.0 81 06 26.0	17.897 149	4.5 518	43.0 D. A. Peterson, Inc.	80.96	47.82	
221A Bellevue	WOHF	LIC NCX OH	254.4 73.6	100.46 BLH20031222ACL	41 14 19.0 82 50 16.0	6.000 114	46.2 334	30.0 Bas Broadcasting, Inc.	48.14	61.93	
220D Wooster	W220BP	LIC CN OH	192.2 12.1	74.89 BLFT19970703TB	40 49 40.0 81 52 18.0	0.045 43	18.0 365	5.5 Bible Broadcasting Network	52.74	56.44	
219A Youngstown	WYTN	LIC CN OH	118.5 299.1	99.20 BLED19910605KF	41 03 28.0 80 38 42.0	0.900 194	37.2 510	24.8 Family Stations, Inc.	57.88	68.59	

Terrain database is NGDC 30 SEC

ERP and HAAT on direct-line with reference station.

• affixed to TV6 Margin= no direct-line contour overlap.

""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 WKRI, channel 222B, Cleveland Heights, OH. The predicted F(50-50) field strength of WKRI at the proposed translator site is 82.1 dBu, (see Exhibit 12A-1). Therefore, the respective predicted interfering contour generated by the proposed FM Translator is 122.1 dBu. This interfering contour extends approximately 17.4 meters from the proposed transmit antenna, and the area of overlap does not reach the ground (the antenna will be mounted at the 144 meter level on a 152 meter tower).

To confirm the absence of population within the interference aperture, EMF has examined the attached topographic map (see Exhibit 12A-2) and aerial photo (see Exhibit 12A-3), which indicate a lack of structures near the proposed tower which could be tall enough to enter the 17.4 meter interference aperture.

Therefore, EMF respectfully requests a waiver of C.F.R 74.1204 based on no population within the area of predicted interference.

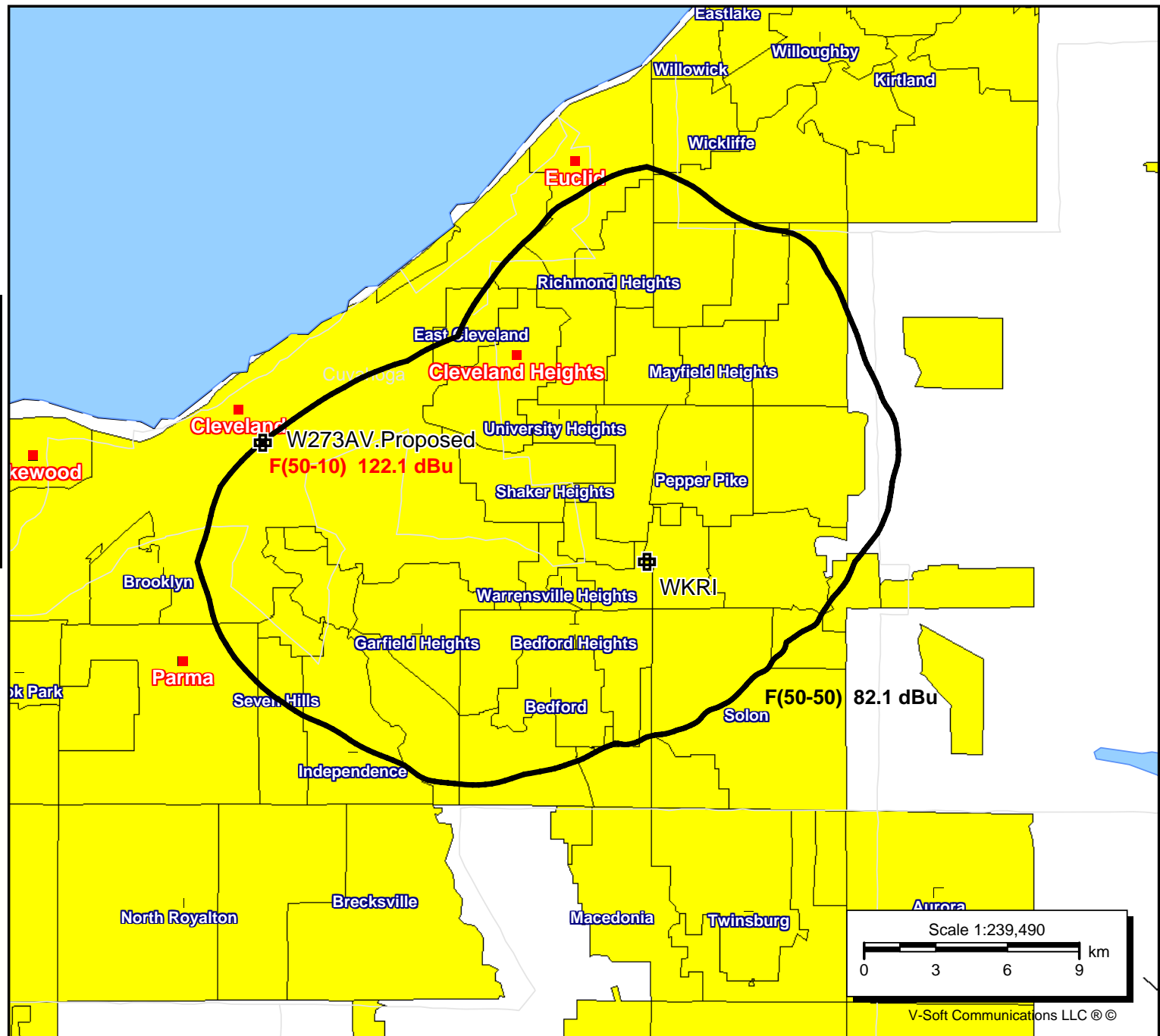
**W273AV.Proposed**

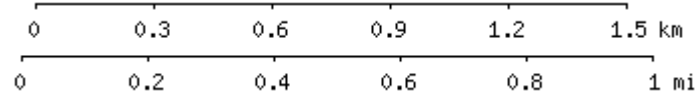
Latitude: 41-29-13 N  
Longitude: 081-41-00 W  
ERP: 0.01 kW  
Channel: 220  
Frequency: 91.9 MHz  
AMSL Height: 322.0 m  
Horiz. Pattern: Omni  
Vert. Pattern: No  
Prop Model: None

**WKRI**

BLH19891128KA  
Latitude: 41-26-32 N  
Longitude: 081-29-28 W  
ERP: 40.00 kW  
Channel: 222  
Frequency: 92.3 MHz  
AMSL Height: 465.0 m  
Horiz. Pattern: Directional  
Vert. Pattern: No  
Prop Model: None

■ W273AV.Proposed  
■ WKRI





41° 29' 13"N, 81° 41' 00"W (NAD27)  
**USGS Cleveland South (OH) Quadrangle**  
 Projection is UTM Zone 17 NAD83 Datum



M=-8.044  
G=-0.453



