

REFERENCE		CH# 220D - 91.9 MHz, Pwr= 0.01 kW, HAAT=158.0 M, COR= 329 M							DISPLAY DATES	
41 29 13 N		Average Protected F(50-50)= 7.29 km							DATA 09-25-04	
81 41 00 W		Ave. F(50-10) 40 dBu= 24.6 54 dBu= 10.4 80 dBu= 1.8 100 dBu= .2							SEARCH 10-06-04	
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)
222B WXTM	LIC DEN	107.2	16.81		41 26 32	25.924	465	65.0	7.00	-48.64*
Cleveland Heights	OH	287.2	BLH19891128KA		81 29 28	210	5.8	Infinity Radio Inc.		
220B1 AP220	APP ZCN	198.5	68.52		40 54 06	20.000	439	41.2	-49.52	11.71
Brunswick	OH	18.5	BNPED20000118AAK		81 56 31	128	113.1	Csn International		
220B1 AP220	APP ZCN	201.5	69.51		40 54 16	10.000	438	34.5	-33.57	18.65
Wadsworth	OH	21.5	BNPED20000118AEN		81 59 11	119	98.0	Mary V. Harris Foundation		
220B1 990407	APP DCN	201.5	69.51		40 54 16	7.800	438	32.6	-29.42	20.62
Wooster	OH	21.5	BPED19990407ME		81 59 11	119	93.8	The Cedarville University		
220B1 AP220	APP ZCN	201.1	70.07		40 53 53	11.500	435	35.4	-35.20	18.34
Wadsworth	OH	21.1	BNPED20000118AAR		81 58 59	117	100.2	Educational Media Foundati		
218A WKHR	LIC C	94.4	32.63		41 27 49	0.750	480	22.8	27.15	9.64
Bainbridge	OH	274.4	BLED20011116ABQ		81 17 38	176	1.6	Kenston Local School Distr		
220D W220BP	LIC CN	192.2	74.89		40 49 40	0.045	365	5.5	52.46	55.58
Wooster	OH	12.2	BLFT19970703TB		81 52 18	43	18.0	Bible Broadcasting Network		
217A WAPS	LIC DCX	169.8	47.64		41 03 53	0.643	424	17.5	40.43	29.96
Akron	OH	349.8	BLED20021122AAD		81 34 59	110	1.6	Board Of Education, Akron		
218A WOBCFM	CP CX	244.7	49.91		41 17 38	1.000	278	13.0	42.16	36.69
Oberlin	OH	64.7	BPED20011127ABM		82 13 20	50	1.6	Oberlin College Student Ne		
218A WOBCFM	CP CN	244.7	49.91		41 17 38	0.900	278	12.7	42.16	37.01
Oberlin	OH	64.7	BPED19970710IA		82 13 20	50	1.6	Oberlin College Student Ne		
218A WOBCFM	LIC CN	244.8	50.02		41 17 39	0.440	278	10.7	42.41	39.09
Oberlin	OH	64.8	BLED19811218AW		82 13 26	50	1.5	Oberlin College Student Ne		
219D W219BT	LIC CN	185.7	47.09		41 03 54	0.019	423	5.9	34.21	34.85
Wadsworth	OH	5.7	BLFT19990510UB		81 44 21	76	8.4	Educational Media Foundati		
223B WZKL	LIC DCN	147.9	91.27		40 47 24	17.875	518	55.2	80.76	35.60
Alliance	OH	327.9	BLH19850318KR		81 06 26	149	4.5	D. A. Peterson, Inc.		
220A WVME	LIC CX	82.2	126.65		41 37 50	4.400	486	28.7	36.77	83.65
Meadville	PA	262.2	BLED20020808AAO		80 10 38	121	85.3	The Moody Bible Institute		
220A WKCO	LIC HN	206.0	137.43		40 22 25	0.265	379	9.4	101.08	110.99
Gambier	OH	26.0	BLED19840611BY		82 23 45	49	31.1	Kenyon College		
220D W220AI	LIC HN	82.3	126.82		41 37 46	0.013	480	6.7	100.04	105.89
Meadville	PA	262.3	BLFT19921125TE		80 10 30	115	22.2	Meadville Christian B/cing		
219A WYTN	LIC CN	118.5	99.20		41 03 28	0.900	510	24.7	57.69	68.29
Youngstown	OH	298.5	BLED19910605KF		80 38 42	193	37.1	Family Stations, Inc.		
221A WOHF	LIC NCX	254.4	100.46		41 14 19	6.000	334	30.0	47.97	61.67
Bellevue	OH	74.4	BLH20031222ACL		82 50 16	114	46.2	Bas Broadcasting, Inc.		
219D W219CP	LIC DV	63.7	83.58		41 48 58	0.000	341	0.0	77.66	75.29
Ashtabula	OH	243.7	BLFT20010628ABW		80 46 52	92	0.0	Pensacola Christian Colleg		
220A 990426	APP EN	231.8	155.62		40 36 46	0.500	380	13.9	101.26	121.77
Marion	OH	51.8	BPED19990426MB		83 07 48	83	48.3	Kayser Broadcast Ministrie		
220A 990610	APP VN	231.8	155.62		40 36 46	3.000	370	20.8	79.27	114.89
Marion	OH	51.8	BPED19990610MF		83 07 48	73	70.3	The Cedarville University		
220A 990901	APP VN	230.8	156.64		40 35 21	0.300	307	7.4	125.69	129.30
Marion	OH	50.8	BPED19990901ME		83 07 12	8	24.9	Broadcasting For The Chall		
217A ALLO		343.0	111.97		42 27 00	6.000	284	33.0	101.99	78.52
Chatham	ON	163.0			82 05 00	95	2.7			
218D AP218	APP C	164.0	81.00		40 47 08	0.013	438	6.2	74.62	74.63
Snyder	OH	344.0	BNPFT20000407AAT		81 25 07	97	0.3	Faith Pleases God Church C		
219A WOSV	LIC CN	218.2	109.60		40 42 33	0.750	514	21.9	71.37	79.80
Mansfield	OH	38.2	BLED19900116KA		82 29 11	162	32.6	The Ohio State University		

CH CITY	CALL	TYPE STATE	AZI. <--	DIST FILE #	LAT. LNG.	Pwr (kW) HAAT (M)	COR (M) INT (km)	PRO (km) LICENSEE	*IN* (Overlap in km)	*OUT*
218A New Philadelphia	WKRJ	LIC OH	CN	172.3 352.3	103.45 BLED19940714KB	40 33 50 81 31 05	2.000 72	387 1.8	18.6 Kent State University	96.38 84.60
218D Willard	W218BL	LIC OH	H	240.0 60.0	99.51 BLFT20000404ACL	41 02 07 82 42 32	0.055 27	315 0.5	4.8 Willard Christian Radio Fe	92.94 94.46
222B Detroit	WMXD	LIC MI	ZCN	310.3 130.3	146.88 BLH19970303KA	42 19 55 83 02 42	6.864 148	331 3.4	46.5 Amfm Radio Licenses, L.l.c	136.24 99.91
217B Toledo	WGTEFM	LIC OH	CN	278.0 98.0	147.07 BLED19890123KE	41 39 27 83 25 55	13.500 299	470 5.5	52.8 Public Broadcasting Founda	134.30 94.07
217B Erie	WQLNFM	LIC PA	CN	64.8 244.8	147.96 BLED1061	42 02 31 80 03 57	35.000 192	494 6.1	53.4 Public Broadcasting Of Nor	136.04 94.29
220A Wheeling	WPHP	LIC WV	HN	150.8 330.8	180.00 BLED19830103AF	40 04 07 80 39 04	0.100 101	396 35.1	10.4 Ohio County Board Of Educa	138.46 148.18
220A Port Huron	WORW	LIC MI	HN	340.3 160.3	181.79 BLED19810410BG	43 01 30 82 26 10	0.180 -73	112 21.8	6.5 Port Huron Area Schools	152.69 150.69
221A Ellwood City	WKPL	LIC PA	CN	120.0 300.0	135.68 BMLH19910328KD	40 52 13 80 17 15	6.000 135	429 49.2	32.4 Keymarket Licenses ,llc	81.90 96.97
220D Oil City	W220BA	LIC PA	HN	91.5 271.5	167.25 BLFT19970528TB	41 25 47 79 40 59	0.010 68	468 15.2	4.8 Public B/cng Of Nw Pennsylv	148.12 150.12
223B Toledo	WVKS	LIC OH	CN	272.4 92.4	159.56 BMLH19961008KA	41 31 55 83 35 37	50.000 156	340 6.1	65.9 Citicasters Licenses, L.p.	146.48 93.25
221A Ellwood City	WKPL.C	CP PA	CX	123.8 303.8	142.12 BPH20040510AAJ	40 46 09 80 16 56	2.500 165	483 43.7	28.9 Keymarket Licenses ,llc	93.70 106.57
223D Girard	AP223	APP PA	C	62.6 242.6	126.99 BNPFT20030313AHM	42 00 10 80 19 15	0.038 28	244 0.4	4.4 Family First Foundation, I	120.55 122.39
221D Coshocton	W221AR	LIC OH	CN	186.8 6.8	138.07 BLFT19930113TA	40 15 08 81 52 32	0.042 66	329 9.6	6.7 Raven Ridge Ministries, In	124.00 125.10
221A Pleasant City	WBIK	LIC OH	CX	176.1 356.1	162.51 BLH20011101ABJ	40 01 37 81 33 09	6.000 55	334 32.1	21.6 David L. Wilson	125.68 134.30
218D Walpole Island	C218LP	SOP ON	VN	331.9 151.9	139.62	42 35 34 82 29 09	0.050 22	193 0.5	6.7 131.84	130.02
219A Allen Township	AP219	APP OH	CX	256.8 76.8	167.47 BNPED20000214AAC	41 07 35 83 37 30	0.500 62	290 17.8	12.2 Great Lakes Community Broa	143.34 146.45
218D Windsor	R---	DEL ON		308.9 128.9	146.48	42 18 19 83 04 05	0.099 26	215 0.7	138.50	143.58
218D Windsor	CJAMFM	SOP ON	DHN	308.9 128.9	146.48	42 18 19 83 04 05	0.050 45	234 0.5	8.2 138.70	135.36
218D Windsor	R---	ADD ON	C	308.9 128.9	146.48	42 18 19 83 04 05	0.099 26	215 0.7	138.50	143.58
219A Zanesville	WJIC	LIC OH	DC	195.0 15.0	174.61 BLED20001214AJI	39 58 02 82 12 49	0.390 114	385 23.2	15.4 Vcy/america, Inc.	146.78 152.73
221D Whiteford Township	AP221	APP MI	C	277.4 97.4	156.60 BNPFT20030317LYU	41 39 12 83 32 52	0.010 145	323 9.9	7.0 Michigan Community Radio	139.53 139.40
221C1 Brantford	R---	ADD ON		29.3 209.3	227.47	43 15 49 80 18 32	100.000 301	561 105.2	86.0 115.08	127.12
219B Ann Arbor	WUOM	LIC MI	CN	299.8 119.8	211.34 BLED19990204KA	42 24 27 83 54 50	93.000 228	513 96.8	65.7 Regents Of The University	107.25 135.29
221D Rudolph	W221BG	CP OH	C	261.5 81.5	167.42 BNPFT20030820AAC	41 14 54 83 39 33	0.038 63	272 9.1	6.4 Educational Media Foundati	151.86 152.00
06+1C Columbus	WSYX	LI OH	DCY	213.6 33.6	205.85 BLCT19931022KE	39 56 16 83 01 16	78.083 278	523	98.9 To Grd B= Wsyx Licensee, Inc.	107.00

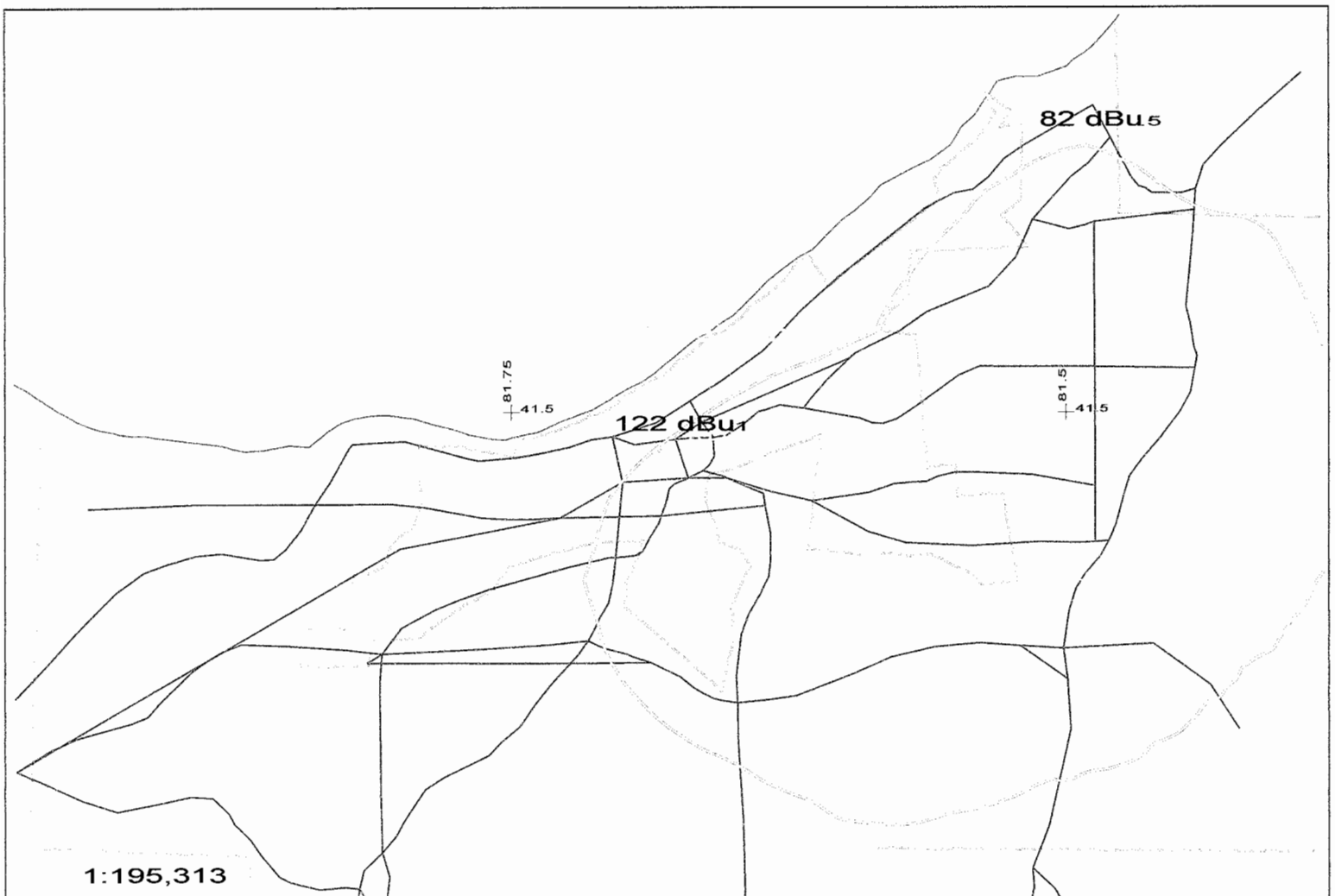
ERP and HAAT are on direct line to and from reference station.
 "*"Affixed to 'IN' or 'Out' values = site inside protected contour.

Exhibit 12 (Compliance with CFR 74.1204)

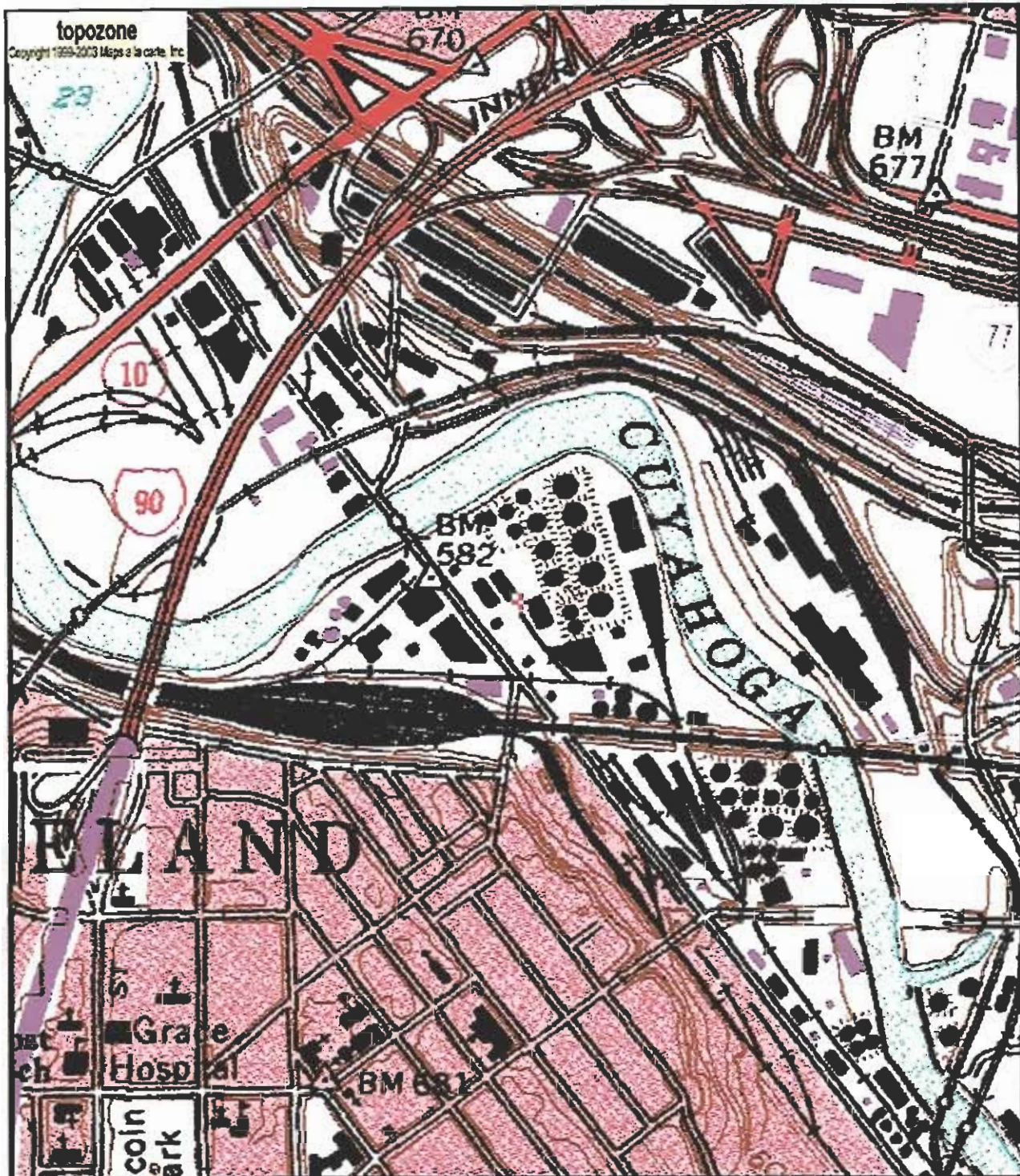
The proposed FM Translator is located within the protected 60 dBu contour of second adjacent channel station WXTM, channel 222B, Cleveland Heights, OH. The predicted F(50-50) field strength of WXTM at the proposed translator site is 82 dBu, see Exhibit 12A. Therefore, the respective predicted interfering contour generated by the proposed FM Translator is 122 dBu. This interfering contour extends less than 17 meters from the proposed transmit antenna, and the area of overlap does not reach the ground (the antenna will be mounted at the 151 meter level on a 153 meter tower).

To confirm the absence of population within the interference aperture, EMF has examined the attached topographic map, which indicates a lack of structures near the proposed tower, and therefore no structure which could be tall enough to enter the 17-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.



<p>Scale in km</p> <p>0 10</p>	<p>APP 220D .01kW 329M AMSL</p> <p>N. Lat. 41 29 13 W. Lng. 81 41 00</p>	<p>Exhibit 12A</p> <p>EMF - 10/04</p>
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0 0.1 0.2 0.3 0.4 0.5 km
 0 0.09 0.18 0.27 0.36 0.45 mi
 Map center is 41° 29' 13"N, 81° 41' 00"W (NAD27)
Cleveland South quadrangle
 Projection is UTM Zone 17 NAD83 Datum

M*
 M=-8.07
 G=-0.453

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USGS Cleveland, Ohio, United States 12 Oct 2000



0 100M

0 100yd

Image courtesy of the U.S. Geological Survey

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