

***** WSHJ_Proposed_Facility *****
FM CHANNEL INTERFERENCE STUDY

Job title: WSHJ-FM
Proposed latitude: N 42 28 12.43
Proposed longitude: W 83 15 51.13
Proposed transmit antenna elevation(AMSL): 232.0 meters
Proposed maximum ERP: 0.1200 kW
Database file name: C:\Program Files\Database_FM\
Protect maximum contours?: N

Proposed channel: 202A

CH	Call	Record	City	ST	Status	Bear.	Dist.	Reqd. Dist.	Result
202A	WBWC	3164	BEREA	OH	APP	135.6	162.6	90.7	
Prop F(50, 10)	40 dBu	20.9 km + WBWC	F(50, 50)	60 dBu	27.6 km =	48.6			
Prop F(50, 50)	60 dBu	6.3 km + WBWC	F(50, 10)	40 dBu	84.5 km =	90.7			
202A	WBWC	3172	BEREA	OH	LIC	135.6	162.6	87.3	
Prop F(50, 10)	40 dBu	20.9 km + WBWC	F(50, 50)	60 dBu	26.3 km =	47.2			
Prop F(50, 50)	60 dBu	6.3 km + WBWC	F(50, 10)	40 dBu	81.0 km =	87.3			
203B1	980522MD	3549	SANDUSKY	OH	APP	162.6	124.2	40.0	
Prop F(50, 10)	54 dBu	9.9 km + 980522	F(50, 50)	60 dBu	22.2 km =	32.2			
Prop F(50, 50)	60 dBu	6.9 km + 980522	F(50, 10)	54 dBu	33.0 km =	40.0			
203B1	981005MC	3550	SANDUSKY	OH	APP	162.6	124.2	40.3	
Prop F(50, 10)	54 dBu	9.9 km + 981005	F(50, 50)	60 dBu	22.4 km =	32.3			
Prop F(50, 50)	60 dBu	6.9 km + 981005	F(50, 10)	54 dBu	33.4 km =	40.3			
256B1	WFRO-FM	3555	FREMONT	OH	CP	166.8	109.8	11.0	
IF channel separation requirement = 11.0 km									
202A	WNFA	3558	PORT HURON	MI	LIC	47.9	87.3	60.4	
Prop F(50, 10)	40 dBu	19.7 km + WNFA	F(50, 50)	60 dBu	15.2 km =	34.9			
Prop F(50, 50)	60 dBu	5.9 km + WNFA	F(50, 10)	40 dBu	54.5 km =	60.4			
204C1	CIMX	3562	WINDSOR	ON	LIC	145.9	40.1	64.3	- 24.2
Prop F(50, 10)	80 dBu	2.2 km + CIMX	F(50, 50)	60 dBu	62.2 km =	64.3			
Prop F(50, 50)	60 dBu	6.6 km + CIMX	F(50, 10)	80 dBu	26.5 km =	33.1			
201A	CBEEFM	3563	CHATHAM	ON	LIC	90.9	97.2	21.9	
Prop F(50, 10)	54 dBu	8.8 km + CBEEFM	F(50, 50)	60 dBu	11.2 km =	20.0			
Prop F(50, 50)	60 dBu	6.2 km + CBEEFM	F(50, 10)	54 dBu	15.7 km =	21.9			
203A		3568	MOUNT CLEMENS	MI	APP	74.4	30.8	18.8	
Prop F(50, 10)	54 dBu	8.7 km +	F(50, 50)	60 dBu	9.1 km =	17.7			
Prop F(50, 50)	60 dBu	6.1 km +	F(50, 10)	54 dBu	12.7 km =	18.8			
202A	WXTS-FM	3846	TOLEDO	OH	LIC	195.1	92.2	31.6	
Prop F(50, 10)	40 dBu	24.5 km + WXTS-F	F(50, 50)	60 dBu	7.1 km =	31.6			
Prop F(50, 50)	60 dBu	7.3 km + WXTS-F	F(50, 10)	40 dBu	23.8 km =	31.1			
202A	WXUT	3856	TOLEDO	OH	LIC	197.9	94.9	34.7	
Prop F(50, 10)	40 dBu	24.2 km + WXUT	F(50, 50)	60 dBu	8.3 km =	32.5			
Prop F(50, 50)	60 dBu	7.2 km + WXUT	F(50, 10)	40 dBu	27.5 km =	34.7			
201A	WJOF	3876	MONROE	MI	LIC	188.6	61.9	22.9	
Prop F(50, 10)	54 dBu	10.7 km + WJOF	F(50, 50)	60 dBu	11.0 km =	21.7			
Prop F(50, 50)	60 dBu	7.4 km + WJOF	F(50, 10)	54 dBu	15.4 km =	22.9			

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201A	WJOF	3877	MONROE	MI CP	188.6	61.9	23.6	
Prop	F(50, 10)	54 dBu	10.7 km + WJOF	F(50, 50) 60 dBu	11.3	km =	22.0	
Prop	F(50, 50)	60 dBu	7.4 km + WJOF	F(50, 10) 54 dBu	16.2	km =	23.6	
201A	WSDP	3881	PLYMOUTH	MI LIC	234.6	23.6	18.1	5.5
Prop	F(50, 10)	54 dBu	8.9 km + WSDP	F(50, 50) 60 dBu	8.4	km =	17.3	
Prop	F(50, 50)	60 dBu	6.3 km + WSDP	F(50, 10) 54 dBu	11.8	km =	18.1	
202A	WCBN-FM	3890	ANN ARBOR	MI LIC	241.1	44.3	38.6	5.8
Prop	F(50, 10)	40 dBu	19.7 km + WCBN-F	F(50, 50) 60 dBu	9.8	km =	29.5	
Prop	F(50, 50)	60 dBu	5.9 km + WCBN-F	F(50, 10) 40 dBu	32.6	km =	38.6	
202A	WSHJ	3895	SOUTHFIELD	MI LIC	116.6	0.0	26.1	-26.1
Prop	F(50, 10)	40 dBu	20.2 km + WSHJ	F(50, 50) 60 dBu	5.9	km =	26.1	
Prop	F(50, 50)	60 dBu	6.1 km + WSHJ	F(50, 10) 40 dBu	19.7	km =	25.8	
201A	WBFH	3898	BLOOMFIELD HILLS	MI LIC	351.5	12.2	14.6	-2.5
Prop	F(50, 10)	54 dBu	8.5 km + WBFH	F(50, 50) 60 dBu	6.2	km =	14.6	
Prop	F(50, 50)	60 dBu	5.9 km + WBFH	F(50, 10) 54 dBu	8.7	km =	14.6	
202A	WXOU	3903	AUBURN HILLS	MI LIC	5.9	26.8	23.8	3.0
Prop	F(50, 10)	40 dBu	19.7 km + WXOU	F(50, 50) 60 dBu	4.1	km =	23.8	
Prop	F(50, 50)	60 dBu	5.9 km + WXOU	F(50, 10) 40 dBu	12.8	km =	18.8	
205A	WGRI	3907	FLINT	MI LIC	330.4	60.2	8.1	
Prop	F(50, 10)	100 dBu	0.0 km + WGRI	F(50, 50) 60 dBu	8.1	km =	8.1	
Prop	F(50, 50)	60 dBu	5.9 km + WGRI	F(50, 10) 100 dBu	0.0	km =	5.9	
201D	WHPR-FM	3924	HIGHLAND PARK	MI CP	116.0	14.8	11.8	3.1
Prop	F(50, 10)	54 dBu	8.6 km + WHPR-F	F(50, 50) 60 dBu	3.1	km =	11.8	
Prop	F(50, 50)	60 dBu	6.1 km + WHPR-F	F(50, 10) 54 dBu	4.4	km =	10.4	
205A	WAKL	3928	FLINT	MI CP	335.8	62.2	11.0	
Prop	F(50, 10)	100 dBu	0.0 km + WAKL	F(50, 50) 60 dBu	11.0	km =	11.0	
Prop	F(50, 50)	60 dBu	5.9 km + WAKL	F(50, 10) 100 dBu	0.0	km =	5.9	
255A	WOWE	3939	VASSAR	MI LIC	347.8	94.2	10.0	
IF channel separation requirement = 10.0 km								
203A	980505MD	3948	GAGETOWN	MI APP	5.3	143.8	48.6	
Prop	F(50, 10)	54 dBu	8.5 km + 980505	F(50, 50) 60 dBu	27.6	km =	36.1	
Prop	F(50, 50)	60 dBu	5.9 km + 980505	F(50, 10) 54 dBu	42.7	km =	48.6	
203C3	981231MF	3949	CASS CITY	MI APP	7.4	129.4	56.0	
Prop	F(50, 10)	54 dBu	8.5 km + 981231	F(50, 50) 60 dBu	30.6	km =	39.0	
Prop	F(50, 50)	60 dBu	5.9 km + 981231	F(50, 10) 54 dBu	50.1	km =	56.0	
203C3	990104MD	3950	ELKTON	MI APP	5.3	143.8	59.1	
Prop	F(50, 10)	54 dBu	8.5 km + 990104	F(50, 50) 60 dBu	34.2	km =	42.6	
Prop	F(50, 50)	60 dBu	5.9 km + 990104	F(50, 10) 54 dBu	53.2	km =	59.1	
204A		3951	TAYMOUTH TOWNSHIP	MI APP	334.3	97.2	9.3	
Prop	F(50, 10)	80 dBu	1.9 km +	F(50, 50) 60 dBu	7.4	km =	9.3	
Prop	F(50, 50)	60 dBu	5.9 km +	F(50, 10) 80 dBu	2.4	km =	8.3	
201A	WVKM	3960	GOODLAND TOWNSHIP	MI LIC	11.5	79.9	34.3	
Prop	F(50, 10)	54 dBu	8.5 km + WVKM	F(50, 50) 60 dBu	19.1	km =	27.6	
Prop	F(50, 50)	60 dBu	5.9 km + WVKM	F(50, 10) 54 dBu	28.3	km =	34.3	
203B1	WYSA	4300	WAUSEON	OH LIC	217.2	126.8	26.9	
Prop	F(50, 10)	54 dBu	9.4 km + WYSA	F(50, 50) 60 dBu	13.6	km =	23.0	
Prop	F(50, 50)	60 dBu	6.6 km + WYSA	F(50, 10) 54 dBu	20.3	km =	26.9	

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256B	WFMK	4314	EAST LANSING	MI	LIC	283.2	104.0	14.0
IF channel separation requirement = 14.0 km								
205A	WDBM	4315	EAST LANSING	MI	LIC	285.2	102.8	19.8
Prop	F(50, 10)	100 dBu	0.0 km + WDBM	F(50, 50)	60 dBu	19.8	km =	19.8
Prop	F(50, 50)	60 dBu	5.9 km + WDBM	F(50, 10)	100 dBu	1.9	km =	7.8
201A	WLGH	4323	LEROY TOWNSHIP	MI	LIC	286.7	93.4	40.7
Prop	F(50, 10)	54 dBu	8.5 km + WLGH	F(50, 50)	60 dBu	23.1	km =	31.6
Prop	F(50, 50)	60 dBu	5.9 km + WLGH	F(50, 10)	54 dBu	34.7	km =	40.7
201B	WLGH	4324	LEROY TOWNSHIP	MI	CP	286.7	93.5	46.3
Prop	F(50, 10)	54 dBu	8.5 km + WLGH	F(50, 50)	60 dBu	26.8	km =	35.3
Prop	F(50, 50)	60 dBu	5.9 km + WLGH	F(50, 10)	54 dBu	40.4	km =	46.3
202A	WAAQ	4334	ONSTED	MI	LIC	238.1	86.8	29.9
Prop	F(50, 10)	40 dBu	19.9 km + WAAQ	F(50, 50)	60 dBu	7.1	km =	27.1
Prop	F(50, 50)	60 dBu	6.0 km + WAAQ	F(50, 10)	40 dBu	23.9	km =	29.9
203A	990607ME	4336	JACKSON	MI	LIC	256.6	92.7	14.1
Prop	F(50, 10)	54 dBu	8.5 km + 990607	F(50, 50)	60 dBu	5.7	km =	14.1
Prop	F(50, 50)	60 dBu	5.9 km + 990607	F(50, 10)	54 dBu	8.0	km =	14.0
203B1	WJOM	4339	EAGLE	MI	APP	287.4	130.3	50.8
Prop	F(50, 10)	54 dBu	8.5 km + WJOM	F(50, 50)	60 dBu	28.6	km =	37.1
Prop	F(50, 50)	60 dBu	5.9 km + WJOM	F(50, 10)	54 dBu	44.9	km =	50.8
202A	WAAQ	4340	ONSTED	MI	CP	240.0	90.8	29.9
Prop	F(50, 10)	40 dBu	19.7 km + WAAQ	F(50, 50)	60 dBu	7.1	km =	26.8
Prop	F(50, 50)	60 dBu	5.9 km + WAAQ	F(50, 10)	40 dBu	23.9	km =	29.9
202C2	WEJC	4365	WHITE STAR	MI	LIC	328.2	195.1	135.7
Prop	F(50, 10)	40 dBu	19.7 km + WEJC	F(50, 50)	60 dBu	50.6	km =	70.3
Prop	F(50, 50)	60 dBu	5.9 km + WEJC	F(50, 10)	40 dBu	129.7	km =	135.7
202C1	WEJC	4366	WHITE STAR	MI	CP	328.2	195.1	158.8
Prop	F(50, 10)	40 dBu	19.7 km + WEJC	F(50, 50)	60 dBu	59.4	km =	79.1
Prop	F(50, 50)	60 dBu	5.9 km + WEJC	F(50, 10)	40 dBu	152.8	km =	158.8
6 TV	WLNSTV		LANSING	MI	LIC	285.2	94.4	113.5
Prop	F(50, 10)	51 dBu	10.3 km + WLNSTV	F(50, 50)	47 dBu	103.2	km =	113.5

- 19.1

***** End of channel 202 study *****