

47 C.F.R. Section 74.1233(a)(1) "Showing of Reduced Interference"

Present Operation W283CJ.L - Cedarburg, WI

Pursuant to 47 C.F.R. Section 74.1233(a)(1)(i)(A)(2), this showing of reduced interference to or from any other broadcast station as a remedial change to a same-band frequency has been demonstrated for W283CJ.L - Cedarburg, WI (Facility ID: 147649). *Given the presence of 47 C.F.R. Section 74.1204(d) Second and Third Adjacent Channel Given Interference Waiver Requests, this showing has been made solely with regard to incoming (received) interference contour clearance to the nearest co-channel or first adjacent channel protection.* The present W283CJ.L operation results in -42.9 km of predicted co-channel contour overlap toward its nearest and most severe allocation protection (see attached **Present Operation Study**). The proposed CH230D.P operation results in no predicted co-channel or first adjacent channel contour overlap toward any allocation protection (see attached **Proposed Operation Study**). As a result, the potential for predicted interference will be reduced for this remedial same-band frequency change.

David R. Magnum											
REFERENCE		CH#	283D - 104.5 MHz, Pwr= 0.25 kW DA, HAAT= 0.0 M, COR= 291 M						DISPLAY DATES		
43 17 36.00 N.		Average Protected F(50-50)= 7.09 km						DATA 04-12-22			
87 59 23.30 W.		Standard Directional						SEARCH 04-12-22			
CH	CALL	TYPE	ANT	AZI	DIST	LAT	PWR (kW)	INT (km)	PRO (km)	*IN*	*OUT*
CITY		STATE	<--	FILE #	LNG	HAAT (M)	COR (M)	LICENSEE	(Overlap	in km)	
283D	W283CJ	LIC DCN	0.0	0.00	43 17 36.00	0.250		---	Reference---		
Cedarburg		WI	101.5	BLFT20161109AAV	87 59 23.30		291	David R. Magnum			
283A	WXER	LIC NCN	354.1	48.31	43 43 32.00	5.100	85.9	28.2	-42.9*	1.8	
Plymouth		WI	174.0	BLH20060109ACJ	88 03 07.30	108	401	Midwest Communications, Inc.			
283A	WSLD	LIC NCN	224.7	88.12	42 43 38.00	6.000	86.5	28.4	-7.7	35.1	
Whitewater		WI	44.2	BLH19921125KD	88 44 54.40	100	381	Cmc Media LLC			
284A	WDDW	LIC NCN	166.3	50.07	42 51 20.10	4.200	43.2	27.4	-3.7	5.1	
Sturtevant		WI	346.4	BLH20040317ADF	87 50 41.30	103	315	Bustos Media Of Wisconsin, Inc.			
283D	WCCX	LIC _CN	211.1	37.46	43 00 16.00	0.013	10.8	3.4	16.4	2.7	
Waukesha		WI	30.9	BLED1802	88 13 39.30	15	282	Carroll University, Inc.			
282L1	WBQR-LP	LIC _CN	203.3	23.54	43 05 55.60	0.100		3.5	2.8		
Brookfield		WI	23.2	BLL20170103AAH	88 06 16.50	16	268	Brookfield Classical Radio			
283B	WSNX-FM	LIC _CN	92.9	159.07	43 12 16.10	32.000	133.7	65.7	13.7	38.6	
Muskegon		MI	274.2	BLH19880930KC	86 01 45.20	189	392	Ihm Licenses, LLC			
284A	WZOS	LIC NCN	313.6	99.24	43 54 20.70	6.000	38.6	25.2	55.9	67.1	
Berlin		WI	133.0	BLH20190610AAP	88 53 12.10	100	360	Woodward Communications, Inc.			
282B	WBMX	LIC _CN	169.4	159.90	41 52 44.10	4.100	78.5	65.8	69.7	69.5	
Chicago		IL	349.7	BMLH20011031AAC	87 38 08.20	480	659	Audacy License, LLC			
284D	W284CW	LIC _CN	262.8	103.86	43 10 10.00	0.250	21.1	14.0	76.4	80.9	
Madison		WI	81.9	BLFT20160607ACS	89 15 38.40		396	University Of Northwestern			
283C	WAXX	LIC _CN	303.7	282.34	44 39 49.90	100.000	193.7	89.1	83.5	177.9	
Eau Claire		WI	121.6	BMLH20120201AIM	90 57 40.50	549	867	Clear Water Brands, Inc.			
282A	WKZG	LIC _CN	348.8	139.53	44 31 26.00	5.600	44.1	28.6	90.2	104.4	
Seymour		WI	168.5	BMLH20030630AAX	88 19 56.40	104	346	Woodward Communications, Inc.			
282A	AL5679	RSV-A	52.5	169.90	44 12 40.02	6.000	45.5	29.6	115.2	128.9	
Manistee		MI	233.7	RM11418	86 17 53.31	100	299	From CDBS			

Terrain database is NED 03 SEC , R= 73.215 qualifying spacings or FCC minimum Spacings in KM, M= Margin in KM
In & Out distances between contours are shown at closest points. Reference zone= East Zone, Co to 1st adjacent.
All separation margins (if shown) include rounding.
Ant Column: (D= DA Standard, Z= DA 73.215, N= Not DA 73.215, _= Omni), Polarization (C,H,V,E), Beamtilt (Y,N,X)
""affixed to 'IN' or 'OUT' values = site inside restricted contour.

47 C.F.R. Section 74.1233(a)(1) "Showing of Reduced Interference"

Proposed Operation CH230D.P - Cedarburg, WI

Pursuant to 47 C.F.R. Section 74.1233(a)(1)(i)(A)(2), this showing of reduced interference to or from any other broadcast station as a remedial change to a same-band frequency has been demonstrated for W283CJ.L - Cedarburg, WI (Facility ID: 147649). *Given the presence of 47 C.F.R. Section 74.1204(d) Second and Third Adjacent Channel Given Interference Waiver Requests, this showing has been made solely with regard to incoming (received) interference contour clearance to the nearest co-channel or first adjacent channel protection.* The present W283CJ.L operation results in -42.9 km of predicted co-channel contour overlap toward its nearest and most severe allocation protection (see attached **Present Operation Study**). The proposed CH230D.P operation results in no predicted co-channel or first adjacent channel contour overlap toward any allocation protection (see attached **Proposed Operation Study**). As a result, the potential for predicted interference will be reduced for this remedial same-band frequency change.

David R. Magnum											
CH# 230D - 93.9 MHz, Pwr= 0.25 kW, HAAT= 63.9 M, COR= 298.6 M											
Average Protected F(50-50)= 10.46 km											
Omni-directional											
REFERENCE											DISPLAY DATES
43 17 36.40 N.											DATA 04-12-22
87 59 22.80 W.											SEARCH 04-12-22
CH	CALL	TYPE ANT	AZI	DIST	LAT	PWR (kW)	INT (km)	PRO (km)	*IN*	*OUT*	
CITY	STATE		<--	FILE #	LNG	HAAT (M)	COR (M)	LICENSEE	(Overlap	in km)	
229A	WBFM	LIC_CN	23.4	51.69	43 43 12.00	6.000	39.9	23.4	2.0	9.7	
Sheboygan	WI		203.5	BLH19930225KB	87 44 04.30	77	277	Midwest Communications, In			
231B	WJJO	LIC_CN	253.7	90.81	43 03 32.00	50.000	79.3	65.9	4.1	10.5	
Watertown	WI		72.9	BMLH20160921AAN	89 03 45.40	150	416	Mid-West Management, Inc.			
229D	W229CQ	LIC DCN	168.3	28.89	43 02 20.10	0.250	8.4	5.8	8.3	5.0	
Milwaukee	WI		348.4	BLFT20160720ABZ	87 55 04.30		379	Bustos Media Of Wisconsin,			
230B	WLIT-FM	LIC_CN	169.4	159.91	41 52 44.10	4.000	127.5	65.8	20.1	35.8	
Chicago	IL		349.7	BMLH20140908AEF	87 38 08.20	482	663	Ihm Licenses, LLC			
230C1	WDOR-FM	LIC_CN	15.2	186.00	44 54 23.00	77.000	154.2	60.6	21.4	92.2	
Sturgeon Bay	WI		195.6	BLH19801224AK	87 22 15.40	198	396	Door County Broadcasting C			
230D	W230DA	LIC DCN	346.2	89.28	44 04 22.60	0.250	35.5	10.4	45.1	53.5	
New Holstein	WI		166.0	0000143108	88 15 24.40		357	Metro North Communications			
229D	W229DE	LIC_CN	325.5	64.81	43 46 21.90	0.250	10.1	7.1	47.3	47.6	
Fond Du Lac	WI		145.2	BLFT20180822AAQ	88 26 50.30		268	Radio Plus, Inc.			
230D	W230DB	LIC DCN	332.8	94.23	44 02 45.00	0.250	29.0	8.2	59.2	59.6	
Oshkosh	WI		152.4	0000159332	88 31 45.20		320	Cumulus Licensing LLC			
230C3	WMMA-FM	LIC NCN	305.6	180.29	44 13 22.90	18.000	106.1	36.4	66.8	120.0	
Nekoosa	WI		124.3	0000124583	89 49 46.40	112	411	Relevant Radio, Inc.			
231C3	AL6796	USE ____	64.5	149.36	43 51 33.02	25.000	64.0	42.3	72.4	87.8	
Hart	MI		245.7	RM10545	86 18 27.29	100	310	From CDBS			
229B	WBGR-FM	LIC_CN	240.7	159.94	42 34 35.00	36.000	73.8	61.9	77.4	82.6	
Monroe	WI		59.5	BLH19820809AH	89 41 35.40	177	454	Big Radio			
229B	WBCT	LIC_CN	109.4	212.58	42 37 56.10	320.000	120.3	94.3	78.7	89.2	
Grand Rapids	MI		291.1	BLH19800616AK	85 32 16.10	238	486	Ihm Licenses, LLC			
231C3	WWKR	LIC NCN	72.6	147.49	43 40 34.00	5.000	55.3	37.3	79.0	90.5	
Hart	MI		253.8	BLH20071126AJL	86 14 20.30	208	449	Synergy Lakeshore Licenses			

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Ant Column: (D= DA Standard, Z= DA 73.215, N= Not DA 73.215, _= Omni), Polarization (C,H,V,E), Beamtilt(Y,N,X)