



W248DE Wisconsin Rapids, WI - Facility ID: 202720

Fill-In Translator for WFHR AM, Facility ID: 73053

Wisconsin Rapids, WI

Minor Modification of Construction Permit (File No. 0000189630)

This application is for a minor modification of Fill-In translator W248DE Wisconsin Rapids, WI. This application proposes relocating W248DE to a communications tower site, FCC ASR 1033900. The application proposes to change the height above ground of the antenna.

47 C.F.R. Sections 74.1204, 74.1205, 74.1232, 74.1234, 74.1235

On the last sheet of this narrative there is a table that contains a Channel Study of the proposed operation. It shows that the only authorized facility for which the protected contour comes within 16 kilometers of the proposed translator interfering contour is second adjacent WSPT 250C1 Stevens Point, WI. The attached map showing compliance with 74.1204 of the rules with regard to WSPT shows the predicted field strength at the proposed translator site is 83 dBu. Therefore the signal level that is predicted to cause interference from the translator is 123 dBu. Along with a map showing this relationship is a spreadsheet table analysis of the desired to undesired signal levels printout (W248DE Translator 2nd Adj Free Space Int Study.pdf) that shows that the interfering contour will come no closer than 286 feet to ground level at the tower

site. It demonstrates that there will be no interference to either to WSPT, in compliance with Section 74.1204 of the rules.

A map is included to show compliance with 74.1232.

47 C.F.R. Section 1.1306

A Commission grant of Authorization for this location would not be an action which will have a significant environmental effect. The FCC FM Model software predicts the proposed facility will create a maximum power density near the ground of 0.218 $\mu\text{W}/\text{cm}^2$ 68 meters out from the tower. This is only 0.11% of the maximum power density for uncontrolled public access areas in accordance with OET Bulletin 65. The permittee/licensee in coordination with other users of the site will reduce power or cease operation as necessary to protect persons having access to the site, tower or antenna from radiofrequency electromagnetic fields in excess of FCC guidelines.

April 12, 2024

 

Carl E. Gluck, CPBE

W248DE Wisconsin Rapids, WI – Channel Study

REFERENCE		CH# 248D - 97.5 MHz, Pwr= 0.25 kW, HAAT= 123.3 M, COR= 445.1 M						DISPLAY DATES			
44 23 20.1 N.		Average Protected F(50-50)= 14.3 km						DATA 04-12-24			
89 37 51.7 W.		Omni-directional						SEARCH 04-12-24			

CH	CALL	TYPE	ANT	AZI.	DIST	LAT.	Pwr(kW)	INT(km)	PRO(km)	*OUT*	
CITY			STATE	<--	FILE #	LNG.	HAAT(M)	COR(M)	LICENSEE	(Overlap in km)	

248D	W248DE!	CP	CN	280.6	16.47	44 24 57.00	0.250		---Reference---		
Wisconsin Rapids			WI	100.4	0000189630	89 50 04.00	113	435	Civic Media, Inc.		
248D	W248DE!	LIC	CN	280.6	16.47	44 24 57.00	0.250		---Reference---		
Wisconsin Rapids			WI	100.4	0000174731	89 50 04.00	113	435	Civic Media, Inc.		
248D	W248DE!	STA	CN	280.6	16.47	44 24 57.00	0.250		---Reference---		
Wisconsin Rapids			WI	100.4	0000202539	89 50 04.00		394	Civic Media, Inc.		
250C1	WSPT	LIC	CN	9.7	16.80	44 32 16.80	100.000	6.3	53.9	-38.2*	
Stevens Point			WI	189.7	BLH19961015KB	89 35 43.40	103	436	Muzzy Broadcast Group, LLC		
247C1	WHDG	LIC	NCN	17.4	115.58	45 22 49.90	100.000	92.2	62.0	31.8	
Rhineland			WI	197.7	BLH20090720AAZ	89 11 22.40	168	664	Raven License Sub, LLC		
247D	W247AS	LIC	CN	87.0	66.59	44 25 01.90	0.010	9.7	6.8	39.1	
New London			WI	267.6	BLFT20070402JTS	88 47 45.40	145	391	Educational Media Foundati		
246C1	WCOW-FM	LIC	CN	244.9	108.81	43 58 05.80	100.000	8.0	63.0	44.3	
Sparta			WI	64.1	BLH19881215KB	90 51 35.40	179	465	Sparta-Tomah Broadcasting		
248A	WTAQ-FM	LIC	CN	88.6	129.53	44 24 21.00	3.000	87.7	31.3	51.4	
Glenmore			WI	269.7	BLH20100209AAC	88 00 19.40	143	371	Midwest Communications, In		

Terrain database is NGDC 30 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 3rd adjacent.
Call signs with exclamation marks need not be protected.
Ant Column: (D= DA Standard, Z= DA 73.215, N= Not DA 73.215, _= Omni), Polarization (C,H,V,E), Beamtilt(Y,N,X)
Incoming contour overlap is ignored.
***affixed to 'IN' or 'OUT' values = site inside restricted contour.