



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



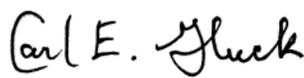
site. It demonstrates that there will be no interference to either to WSPT, in compliance with Section 74.1204 of the rules.

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 CITY	CALL	TYPE	ANT STATE	AZI. <--	DIST FILE #	LAT. LNG.	Pwr(kW) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*OUT* (Overlap in km)
248D Wisconsin Rapids	W248DE!	CP	CN WI	280.6	16.47 0000189630	44 24 57.00 89 50 04.00	0.250 113	435	---Reference--- Civic Media, Inc.	
248D Wisconsin Rapids	W248DE!	LIC	CN WI	280.6	16.47 0000174731	44 24 57.00 89 50 04.00	0.250 113	435	---Reference--- Civic Media, Inc.	
248D Wisconsin Rapids	W248DE!	STA	CN WI	280.6	16.47 0000202539	44 24 57.00 89 50 04.00	0.250	394	---Reference--- Civic Media, Inc.	
250C1 Stevens Point	WSPT	LIC	CN WI	9.7	16.80 BLH19961015KB	44 32 16.80 89 35 43.40	100.000 103	6.3 436	53.9 Muzzy Broadcast Group, LLC	-38.2*
247C1 Rhinelander	WHDG	LIC	NCN WI	17.4	115.58 BLH20090720AAZ	45 22 49.90 89 11 22.40	100.000 168	92.2 664	62.0 Raven License Sub, LLC	31.8
247D New London	W247AS	LIC	CN WI	87.0	66.59 BLFT20070402JTS	44 25 01.90 88 47 45.40	0.010 145	9.7 391	6.8 Educational Media Foundati	39.1
246C1 Sparta	WCOW-FM	LIC	CN WI	244.9	108.81 BLH19881215KB	43 58 05.80 90 51 35.40	100.000 179	8.0 465	63.0 Sparta-Tomah Broadcasting	44.3
248A Glenmore	WTAQ-FM	LIC	CN WI	88.6	129.53 BLH20100209AAC	44 24 21.00 88 00 19.40	3.000 143	87.7 371	31.3 Midwest Communications, In	51.4

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.