

September 13, 2021

W299DB Richmond, VA - Facility ID: 51896
Fill-In Translator for WJFN AM Chester, VA – Facility ID: 27440
Application for a Minor Modification of CP File No. 0000156297

This is an application for a minor modification of the construction permit for W299DB Richmond, VA (file number 0000156297) to change the height, ERP, and antenna pattern. The proposed site is a tower registered as ASR 1025772. The proposed site is an existing communications tower.

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

The channel study on the last sheet of this narrative shows the contour overlap values for the proposed translator. It shows that second adjacent WBBT-FM 297A Powhatan, VA has a signal strength of 68.5 dBu at the proposed translator tower site. A contour overlap map is included with a table that shows that the interfering signal from the translator (108.5 dBu) will come no closer than 280 feet from the ground at the translator site. There are no nearby tall structures to the supporting tower. Therefore no interference will occur to WBBT-FM in accordance with Section 74.1204 of the rules.

The channel study of the proposal also shows that the proposed translator interfering contour does not come within 16 kilometers of any other protected contour.

A map is included to show compliance with 74.1232. Note that there is no overlap of the 60 dBu contours of the proposed W299DB fill-in translator for WJFN AM and W224EB, a second fill-in translator for WJFN AM.

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 0.0143 $\mu\text{W}/\text{cm}^2$ 203 meters out from the tower. This is considerably less than 1% 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.

 

Carl E. Gluck, CPBE

Channel Study for W299DB Richmond, VA

REFERENCE CH# 299D - 107.7 MHz, Pwr= 0.03 kW, HAAT= 145.2 M, COR= 201 M DISPLAY DATES
 37 30 52.5 N. Average Protected F(50-50)= 9.2 km DATA 09-09-21
 77 30 28.1 W. Omni-directional SEARCH 09-10-21

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)
299D Richmond	W299DB!	CP	DCN VA	57.5 237.5	0.03 0000156297	37 30 53.00 77 30 27.00	0.250	195	---Reference--- Delmarva Educational Assoc	
299D Richmond	W299DB!	LIC	DCN VA	45.5 225.6	16.98 0000118813	37 37 17.60 77 22 12.90	0.050	112	---Reference--- Delmarva Educational Assoc	
297A Powhatan	WBBT-FM	LIC	NCN VA	266.4 86.3	17.34 BMLE20180102AAL	37 30 16.50 77 42 13.00	1.400 207	2.2 282	27.6 Vpm Media Corporation	-10.7*
299A Alberta	AL6341	RSV-A	VA	205.4 25.2	79.50 RM10185	36 52 02.53 77 53 29.99	6.000 100	87.5 191	28.9 Calvary Chapel Of Twin Fal	20.3
299A Alberta	WDDW	LIC	CN VA	205.4 25.2	79.50 BMLH20090327AHS	36 52 02.50 77 53 30.00	2.200 163	82.2 255	28.4 Byrne Acquisition Group, L	20.9
300A West Point	WBQK	LIC	NCN VA	96.4 276.9	61.91 BLH20050726ANA	37 27 00.50 76 48 44.90	4.000 100	37.2 119	24.5 Davis Media, LLC	23.2
299B Manassas	WWWT-FM	LIC	CN VA	348.2 168.0	139.20 BLH20070809ABB	38 44 30.40 77 50 06.90	29.000 197	134.5 357	67.3 Washington Dc FCC License	30.7
298A Warsaw	WNNT-FM	LIC	CN VA	54.1 234.6	82.00 BLH20081023AAQ	37 56 39.50 76 45 03.80	6.000 100	45.3 122	29.4 Real Media, Inc.	38.8
299B1 Norfolk	WMOV-FM	LIC	ZCN VA	125.4 306.2	133.97 BLH20110217AAQ	36 48 37.50 76 16 57.50	15.000 130	99.4 131	41.0 Ihm Licenses, LLC	52.2
298A Charlottesville	WCHV-FM	LIC	CN VA	301.8 121.2	100.32 BLH19960112KD	37 59 05.50 78 28 48.00	0.210 338	36.9 506	24.2 Monticello Media LLC	63.5

 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= - Zone 1, Co-3rd adjct.
 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.
 Reference station has protected zone issue: AM tower