



**W273DG Cleveland, OH - Facility ID: 143930**

**Fill In Translator for WHK AM Cleveland OH - Facility ID: 72299**

**Application for Minor Modification of License BLFT-20180305AAW**

This application is for a minor modification of Fill-In translator W273DG Cleveland, OH. This application proposes to change the location and channel of the translator. It is proposed to place the translator on top of the studio building for WHK AM. This is a minor modification application to change channels from 273 to second adjacent channel 275.

**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 protected contour of second adjacent WCRF overlaps the proposed tower site for W273DG. WCRF-FM places a signal strength of 91 dBu at the proposed translator site. The interfering contour therefore is the 131 dBu contour. As proposed the worst case interference will protrude out 14 meters from the antenna (without consideration of the vertical elevation field). The antenna will have the center of radiation up 17.9 meters above ground level. A map of the proposed rooftop site is included with this application that shows that a 14 meter circle around the antenna does not protrude into any other nearby occupied structure or major highway. Therefore no interference will occur to WCRF-FM. For each other case

where the proposed interfering signal comes within 16 kilometers of an authorized protected facility a contour to contour map is included to show there is no prohibited contour overlap, thereby verifying compliance with 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 ERP proposed is less than 100 watts and therefore the instant application is categorically excluded from environmental assessment in accordance with OET Bulletin 65 and FCC Guidelines. 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.

**July 24, 2023**

 

Carl E. Gluck, CPBE

## W273DG Cleveland, OH – Channel Study on Channel 275

REFERENCE CH# 275D - 102.9 MHz, Pwr= 0.05 kW, HAAT= 13.3 M, COR= 279.9 M DISPLAY DATES  
41 23 36.8 N. Average Protected F(50-50)= 4.7 km DATA 07-24-23  
81 39 15.7 W. Omni-directional SEARCH 07-24-23

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)
277B Cleveland	WCRF-FM	LIC	CN OH	181.3 1.3	10.76 BLH19810925AZ	41 17 48.10 81 39 26.40	25.500 201	6.2 501	67.5 The Moody Bible Institute	-57.8*
275B Sharon	WYFM	LIC	NCN PA	113.4 294.1	92.94 BLH20030702AAA	41 03 26.20 80 38 21.30	33.000 184	133.5 508	65.4 Cumulus Licensing LLC	2.9
274B Sandusky	WCPZ	LIC	ZEN OH	265.3 84.6	79.35 BLH20150522AGB	41 19 51.50 82 35 56.50	50.000 135	75.7 339	62.2 Bas Broadcasting, Inc.	5.8
273D Akron	W273BL	LIC	CN OH	170.7 350.7	37.00 BLFT20130503ACF	41 03 53.20 81 34 58.40	0.074 279	0.6 597	16.2 Educational Media Foundati	19.6

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 adj  
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.