

Burgaw, North Carolina
Application for Minor Modification of
FM Translator W263BE
On Channel 265
by
Conner Media Corporation

Technical Exhibit

April 2021

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Declaration

I declare, under penalty of perjury, that I am a technical consultant to broadcasting and other communications systems, that I have over twenty-five years of experience in the engineering of broadcast and other communications systems, that I am familiar with the Federal Communications Commission's Rules found in the Code of Federal Regulations Title 47, that I am a Professional Engineer registered in North Carolina, that I have prepared or supervised the preparation of the attached Technical Exhibit for Conner Media Corporation, and that all of the facts therein, except for facts of which the Federal Communications Commission may take official notice, are true to the best of my knowledge and belief.



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Narrative

This Exhibit supports a minor modification application for FM translator W263BE, on Channel 265 in Burgaw, North Carolina. Allocation details are provided in this exhibit. This proposal complies fully with the requirements of 47 C.F.R. §74.1204(a). The proposed modified facilities create no mutual exclusivities with any licensed facilities, construction permits, or applications as shown in the allocation table in this exhibit.

Figure 1 shows the proposed 60 dBu F(50,50) coverage area, and the licensed coverage area. Figure 1 demonstrated fill-in compliance.

The changes are a new primary station, a new site, a reduction in elevation, and a new directional antenna.

The minor modification complies with the requirements of Sections 74.1204, 74.1205, 74.1232, and 74.1234.

Licensing Management System Differences

The authorized W263BE facilities, file number BLFT-20110720ADY, were authorized under the Consolidated Data Base System (CDBS) using NAD 27 coordinates to the nearest second and elevations to the nearest meter. The Licensing Management System (LMS) uses NAD83 coordinates to the nearest tenth of a second and elevations to the nearest tenth of a meter. In LMS, the NAD83 coordinates for the proposed site are used for this application, while for existing facilities, the original NAD27 coordinates are converted to NAD83. This results in minor changes in allocations, even though there are no physical changes in the actual facilities.

Allocations

This application proposes service to Burgaw, North Carolina, on channel 265. An updated Table 1: Allocations is included in this exhibit with a list of the stations, construction permits, allocations, and applications studied. All are protected under §74.1204(a) contour protection by this application. The allocations table was prepared using the GLOBE 30 terrain database which is described below.

Table 1: Allocations

Allocation Study Conner Media Corporation												
REFERENCE		CH# 265D - 100.9 MHz, Pwr= 0.25 kw DA, HAAT= 13.0 M, COR= 28.2 M								DISPLAY DATES		
34 38 08.2 N.		Average Protected F(50-50)= 7.1 km								DATA 04-26-21		
77 55 43.2 W.		Standard Directional								SEARCH 04-26-21		
CH CITY	CALL	TYPE	ANT STATE	AZI. <--	DIST FILE #	LAT. LNG.	Pwr(kw) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*	
265C2 Fairmont	WSTS	LIC	CN NC	246.7 66.1	101.14 BLH19941222KA	34 16 17.60 78 56 23.10	50.000 149	137.2 176	51.6 Truth Broadcasting Corpora	-42.6*	27.8	
264C Wake Forest	WRDU	LIC	CN NC	351.6 171.5	134.43 BLH20100106AEL	35 49 53.60 78 08 49.00	100.000 600	136.6 664	91.8 Ihm Licenses, LLC	-6.8*	36.0	
263D Rose Hill	W263BE	LIC	CN NC	355.1 175.1	15.16 BLFT20110720ADY	34 46 17.60 77 56 33.90	0.250 120	1.1 134	14.0 Conner Media Corporation	9.4	0.7	Facility being modified.
263D Rose Hill	W263DF	CP	CN NC	355.1 175.1	15.16 BNPFT20180327ACL	34 46 17.60 77 56 33.90	0.250 134	1.1 134	14.0 Conner Media Corporation	9.4	0.7	
266D Rose Hill	W263BE	APP	DHN NC	54.8 234.9	19.86 BPFT20180314ACY	34 44 18.60 77 45 03.90	0.040 88	9.4 88	6.5 Conner Media Corporation	5.3	5.8	Expired construction permit being replaced by this application.
267C2 Wilmington	WWQQ-FM	LIC	NCN NC	183.8 3.7	59.90 BLH20131030AHG	34 05 52.60 77 58 17.00	18.000 165	4.8 170	45.3 Cumulus Licensing LLC	48.1	13.5	
211C3 Jacksonville	WJKA	LIC	DVN NC	87.1 267.3	27.88 BLED20080527AEH	34 38 52.60 77 37 26.90	17.000 86	0.0 96	0.0 American Family Associatio	11.5R	16.4M	
266D Jacksonville	W266AV	LIC	CN NC	74.9 255.1	48.72 BLFT20130528ALY	34 44 56.60 77 24 49.90	0.250 73	15.4 81	10.9 Cmg Coastal Carolina, LLC	27.6	29.9	
263D Wilmington	W263BA	LIC	CN NC	170.3 350.3	43.00 BLFT20070220AAQ	34 15 15.60 77 50 57.90	0.019 99	0.3 104	6.7 Educational Media Foundati	35.6	35.2	
268C Raleigh	WRAL	APP	CN NC	334.7 154.3	128.18 0000136532	35 40 35.10 78 32 07.20	98.000 606	13.8 697	92.2 wral-Fm, Inc.	109.6	35.4	
268C Raleigh	WRAL	LIC	CN NC	334.7 154.3	128.19 BMLH20040903ABQ	35 40 35.60 78 32 07.00	100.000 555	13.3 646	90.4 wral-Fm, Inc.	110.1	37.3	
262C1 Harkers Island	WLGP	LIC	NCN NC	78.3 258.9	95.32 BMLH20140626AAP	34 48 17.60 76 54 21.80	100.000 148	6.8 152	57.0 Augusta Radio Fellowship I	82.6	37.7	

Terrain database is GLOBE 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.
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.

< = Station meets FCC minimum distance spacing for its class.

Source of Data

Transmitter location, effective radiated power, directional antenna pattern, and elevation data are extracted from the Commission's CDBS (converted to NAD 83) or LMS. All contours for existing and proposed facilities are calculated using height above average terrain calculated at one degree horizontal increments.

The contours were evaluated using terrain extracted from the GLOBE 30 arcsecond terrain database, formatted by V-Soft Communications to work with its allocation and mapping programs.

Nonionizing Electromagnetic Radio Frequency Radiation

The facilities are proposed with 250 Watts ERP (maximum, directional) vertically polarized at 10.5 meters above ground level. When evaluated using the FCC program FM Model at 8.5 meters, the power density is less than the maximum for uncontrolled/public exposure.

