

Clinton, South Carolina  
Minor Modification Application for  
FM Translator W252BH  
File Number BLFT-20070514ABD  
On Channel 243  
by  
Radio Training Network, Inc.

Exhibit 13  
Interference Analysis

October 2016

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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 Exhibit 13, Interference Analysis, for Radio Training Network, Inc., 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 modification application for W252BH, for FM translator license file number BLFT-20070514ABD, on Channel 243 in Clinton, South Carolina. Allocation details are provided in this exhibit. The changes are a change to a non-adjacent channel, a change of primary signal to WPCC as a fill-in translator, an increase in power, and an increase in elevation. This proposal creates no mutual exclusivities with any other facility.

Figure 1 shows the proposed 60 dBu F(50,50) coverage area. The primary station WPCC 2 mV/m contour and 25 mile radius are also shown.

### AM Translator Window Filing

This application is being filed in response to a filing window for currently authorized translators to rebroadcast AM radio stations, under specific definitions for minor modification.<sup>1</sup> This application complies with the conditions for consideration as a minor modification. Specifically, W252BH is authorized on a non-reserved channel; the proposed primary station is AM station WPCC; the primary station is authorized as a Class D station; and the distance from the authorized W252BH location to the proposed location is 69.1 miles, calculated from the authorized W252BH site to the translator site proposed in this application.

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<sup>1</sup> See *Revitalization of the AM Service*, First Report and Order, Further Notice of Proposed Rule Making, and Notice of Inquiry, FCC 15-142, para 15 (rel. October 23, 2015) (*AMR Order*).

Allocations

This application proposes service to Clinton, South Carolina, on channel 243. 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 by this application

Table 1: Allocations

Allocation Study											
Radio Training Network, Inc.											
REFERENCE		CH# 243D - 96.5 MHz, Pwr= 0.25 kw, HAAT= 58.2 M,						COR= 229 M		DISPLAY DATES	
34 26 43.0 N.		Average Protected F(50-50)= 10.0 km								DATA 10-21-16	
81 53 21.0 W.		Omni-directional								SEARCH 10-21-16	
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*
242C2 Aiken	WKSP	LIC	CX SC	182.4 2.3	84.40 BLH20020611AAU	33 41 06.0 81 55 36.0	17.500 258	75.9 388	51.5 Capstar Tx, LLC	-2.7	16.9
243C2 Biltmore Forest	WOXL-FM	LIC	ZCX NC	331.8 151.4	145.90 BLH20160926ADQ	35 36 04.0 82 39 07.0	9.500 339	135.3 1064	56.8 Saga Communications Of Nor	2.2	64.1
240D Woodruff	W240BO	LIC	C SC	336.3 156.2	37.68 BLFT20090826AAB	34 45 22.0 82 03 18.0	0.250 55	1.1 267	11.0 Tower Above Media LLC	28.0	25.6
244C3 Tignall	WVGC	LIC	NCX GA	238.3 57.8	95.86 BLH20150706ABJ	33 59 22.0 82 46 23.0	25.000 88	59.7 230	38.3 Georgia-carolina Radiocast	26.4	43.4
246D Greenwood	W246CV	CP	DC SC	218.7 38.5	38.23 BNPFT20130827ADW	34 10 35.1 82 08 56.7	0.100 76	0.7 240	9.4 Tower Above Media LLC	27.0	27.5
244C3 Westminster	WVGC	CP	CX SC	278.6 98.0	97.94 BMPH20160829ACD	34 34 19.0 82 56 41.0	23.500 103	61.9 330	40.9 Georgia-carolina Radiocast	27.0	44.8
242D Greenville	W242BX	CP	DC SC	319.2 138.9	72.88 BPFT20160728AHO	34 56 27.0 82 24 41.0	0.250	36.1 648	23.6 Ted A Mccall	29.3	38.8
242D Greenville	W242BX	LIC	DC SC	319.2 138.9	72.88 BLFT20151013AEE	34 56 27.0 82 24 41.0	0.250	35.9 645	23.5 Ted A Mccall	29.5	38.9
241C Shelby	WHQC	LIC	DC NC	33.1 213.5	121.84 BLH20111221ADF	35 21 44.0 81 09 19.0	100.000 533	13.0 768	89.2 Clear Channel Broadcasting	98.1	31.6
244C3 Cayce	WLTY	LIC	ZCX SC	121.0 301.5	94.41 BLH20050902ABZ	34 00 18.0 81 00 44.0	9.000 132	51.8 199	33.9 Capstar Tx, LLC	31.9	45.0
243C3 Biltmore Forest	WOXL-FM	LIC	ZCX NC	331.8 151.4	145.90 BLH20101130AJQ	35 36 04.0 82 39 07.0	2.100 339	105.5 1064	40.5 Saga Communications Of Nor	32.2	79.3
244L1 Spartanburg	WSEJ-LP	LIC		356.6 176.6	56.34 BLL20160929ALU	34 57 08.1 81 55 33.3	0.078 34	263	35.9 St. Paul The Apostle Catho		36.2
246D Spartanburg	W246BU	LIC	DC SC	351.6 171.5	60.09 BLFT20140605AGH	34 58 51.6 81 59 10.6	0.250	1.0 391	15.7 Ted A Mccall	49.3	42.7
245D Travelers Rest	W245CH	LIC	DC SC	319.3 139.0	72.92 BLFT20141219ABG	34 56 29.0 82 24 41.0	0.250	1.0 725	24.7 Caron Broadcasting, Inc.	63.7	46.7
297C0 Anderson	WJMZ-FM	LIC	C SC	293.7 113.3	71.61 BMLH20010628AAA	34 42 07.0 82 36 19.0	100.000 308	0.0 544	0.0 Sm-wjnz, LLC	24.5R	47.1M
Downgraded from Class C to C0 09/09/2008.											
240A Pendleton	WLTE	LIC	ZCX SC	292.6 112.2	70.97 BLH20150313ABA	34 41 19.0 82 36 16.0	6.000 71	2.0 331	20.4 Caron Broadcasting, Inc.	60.2	47.3
243D Charlotte	W243BY	LIC	C NC	47.5 228.1	124.77 BLFT20091217AEC	35 11 56.0 80 52 36.0	0.250 165	55.4 367	17.4 Radio Training Network, In	58.5	69.9
242D Columbia	W242CR	CP	DC SC	118.3 298.8	93.43 BPFT20160701ABX	34 02 38.0 80 59 51.0	0.250	19.2 244	12.8 Glory Communications, Inc	63.5	65.9

Terrain database is FCC 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.

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)

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

Reference station has protected zone issue: AM tower: WPCC

### Source of Data

Transmitter location, effective radiated power, directional antenna pattern, and elevation data are extracted from the Commission's CDBS. 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 National Geophysical Data Center's (NGDC) 30 arcsecond terrain database, formatted by V-Soft Communications and edited to match the database in use at the Federal Communications Commission.

All population data is from 2010 U.S. Census PL data files. Population is counted by considering the location of the centroid of each census block. The data for each block is counted if it falls within the area being counted.

