

Rose Hill, North Carolina
Application for Minor Modification of FM Translator W240BN
On Channel 240
by
Conner Media Corporation

Exhibit 12
Interference Analysis

November 2008

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Table of Contents

Description	Page
Declaration.....	2
Narrative	3
Allocations	3
Source of Data	4
Television Channel 6 Protection	4
Table 1: Allocations.....	5
Coverage Area	Figure 1
Allocation Study	Figure 2
Allocation Study Detail: W204BQ.....	Figure 3

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 12, Interference Analysis, 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 provides details of the allocations for the proposed modified facilities for FM translator W240BN to serve Rose Hill, North Carolina. This proposal complies fully with the requirements of 74 C.F.R. §74.1204(a).

This application is for the modification of a licensed translator. Therefore, the requirements of Public Notice DA-03-2095, FM Translator Auction No. 83 Non-Mutually Exclusive Applications dated June 30, 2003, Footnote 8, are not applicable. The proposed modified facilities create no mutual exclusivities as shown in the allocation table in this exhibit.

Figure 1 shows the licensed 60 dBu F(50,50) coverage area and the proposed 60 dBu F(50,50) coverage area. As shown in Figure 1, this application proposes a minor modification.

W240BN is a fill-in translator for WZKB, Wallace, North Carolina. The licensed 60 dBu F(50,50) contour for WZKB is also shown on Figure 1.

Allocations

This application proposes service to Rose Hill, North Carolina, on channel 240. An updated Allocations Table is included in this exhibit with a list of the stations, construction permits, allocations, and applications studied. All are protected by this application. The allocations table was prepared using the NED 3 arcsecond terrain database which is described below.

Figure 2 shows the relationship between the proposed translator and other facilities in the allocations table. Figure 3 shows the relationship to the only facility where the lack of outgoing overlap is less than 3.2 kilometers (2 miles).

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 also evaluated using terrain extracted from the V-Soft Communications NED 03 terrain database. The NED 03 database is derived from the USGS National Elevation Data 30 meter terrain database. The USGS National Elevation Dataset has been developed by merging the highest-resolution, best-quality elevation data available across the United States into a seamless raster format. NED is the result of the maturation of the USGS effort to provide 1:24,000-scale Digital Elevation Model (DEM) data for the conterminous US and 1:63,360-scale DEM data for Alaska.

All population data is from 2000 U.S. Census SF1 data files. Population is counted by considering the location of the centroid of each census bloc. The data for each block is counted if it falls within the area being counted.

Television Channel 6 Protection

There are no television channel 6 stations requiring protection. This application proposes a channel which is not subject to television channel 6 separation requirements.

Table 1: Allocations

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Asheville, North Carolina

Conner Media Corporation
Allocation Study

REFERENCE CH# 240D - 95.9 MHz, Pwr= 0.25 kw, HAAT= 83.5 M, COR= 112 M DISPLAY DATES
34 51 48.0 N. Average Protected F(50-50)= 11.8 km DATA 11-25-08
78 02 16.0 W. Omni-directional SEARCH 11-25-08

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)
240D Rose Hill	W240BN	LIC	V NC	0.0	0.0 BLFT20070727ACA	34 51 48.0 78 02 16.0	0.038	20.7 96	6.2 Conner Media Corporation	-44.4*
239C0 Lumberton Downgraded pursuant to	WKML	LIC	DEN NC	264.6 84.0	92.7 BLH19971024KA	34 46 50.0 79 02 45.0	100.000 318	105.5 368	72.7 wkml License Limited Partn	4.1
C.F.R. Section 73.3573, Note 4.										
241C0 Raleigh	WBBB	LIC	CY NC	326.1 145.7	110.3 BLH19900228KE	35 41 07.0 78 43 14.0	100.000 300	106.5 408	73.4 Carolina Media Group, Inc.	20.9
240D Jacksonville	W240BQ	LIC	C NC	102.5 282.8	48.2 BLFT20070816AAC	34 46 08.0 77 31 24.0	0.038	19.5 76	5.9 Bible Broadcasting Network	1.3
240D Kinston Translator For WYFL, Henderson, NC	W240AW	LIC	CN NC	51.3 231.6	62.1 BLFT19951207TJ	35 12 39.0 77 30 16.0	0.055 60	21.0 77	6.3 Bible Broadcasting Network	15.0
243C Laurinburg	WFLB	LIC	NCN NC	264.6 84.0	92.7 BLH19971024KC	34 46 50.0 79 02 45.0	100.000 318	10.5 368	74.1 wflb License Limited Partn	17.5
240D Wilmington Translator For WOTJ, Morehead City, NC	W240AS	LIC	CN NC	167.1 347.2	67.6 BLFT19931227TB	34 16 08.0 77 52 24.0	0.235 28	23.4 35	7.0 wilmington Christian Academy	18.4
240A Plymouth	WPNC-FM	LIC	CN NC	46.4 227.1	159.6 BLH19810914AU	35 50 48.0 76 45 22.0	2.600 101	117.7 470	46.8 Durlyn Broadcasting, Co.	73.4
293C1 New Bern	WSFL-FM	LIC	CN NC	72.3 252.6	65.6 BLH19860127KC	35 02 27.0 77 21 11.0	100.000 279	33.7 292	105.0 wsfl License Limited Partn	21.5R 44.1M
242C1 Morehead City	WRHT	LIC	NCX NC	96.4 277.0	106.4 BMLH20020910ABD	34 45 07.0 76 52 57.0	100.000 150	6.9 152	57.4 Inner Banks Media, Llc	48.0
240D Greenville	W240AZ	LIC	C NC	33.9 214.3	95.6 BLFT20001213AFG	35 34 33.0 77 26 49.0	0.050 42	16.8 55	5.2 Radio Training Network, In	50.6
238D Wilmington	W238AV	LIC	C NC	173.5 353.6	73.0 BLFT20070625AAS	34 12 35.0 77 56 53.0	0.100	0.7 110	10.7 Educational Media Foundation	61.1
237D Fayetteville	W237CM	LIC	C NC	286.7 106.2	85.2 BLFT20051018ADG	35 04 46.0 78 55 58.0	0.010	0.2 253	8.7 Educational Information Co	75.4

Terrain database is NED 03 SEC, R= 73.215 qualifying spacings or FCC minimum spacings in KM, M= Margin in KM
Contour distances are on direct line to and from reference station. Reference Zone = 2, Co to 3rd adjacent.
Ant Column: (D= DA Standard, Z= DA 73.215, N= Not DA 73.215, _= Omni), Polarization (C,H,V,E), Beamtlt(Y,N,X)
Incoming contour overlap is ignored.
"*"affixed to 'IN' or 'OUT' values = site inside protected contour.
"<" = Contour overlap
Reference station has protected zone issue: AM tower

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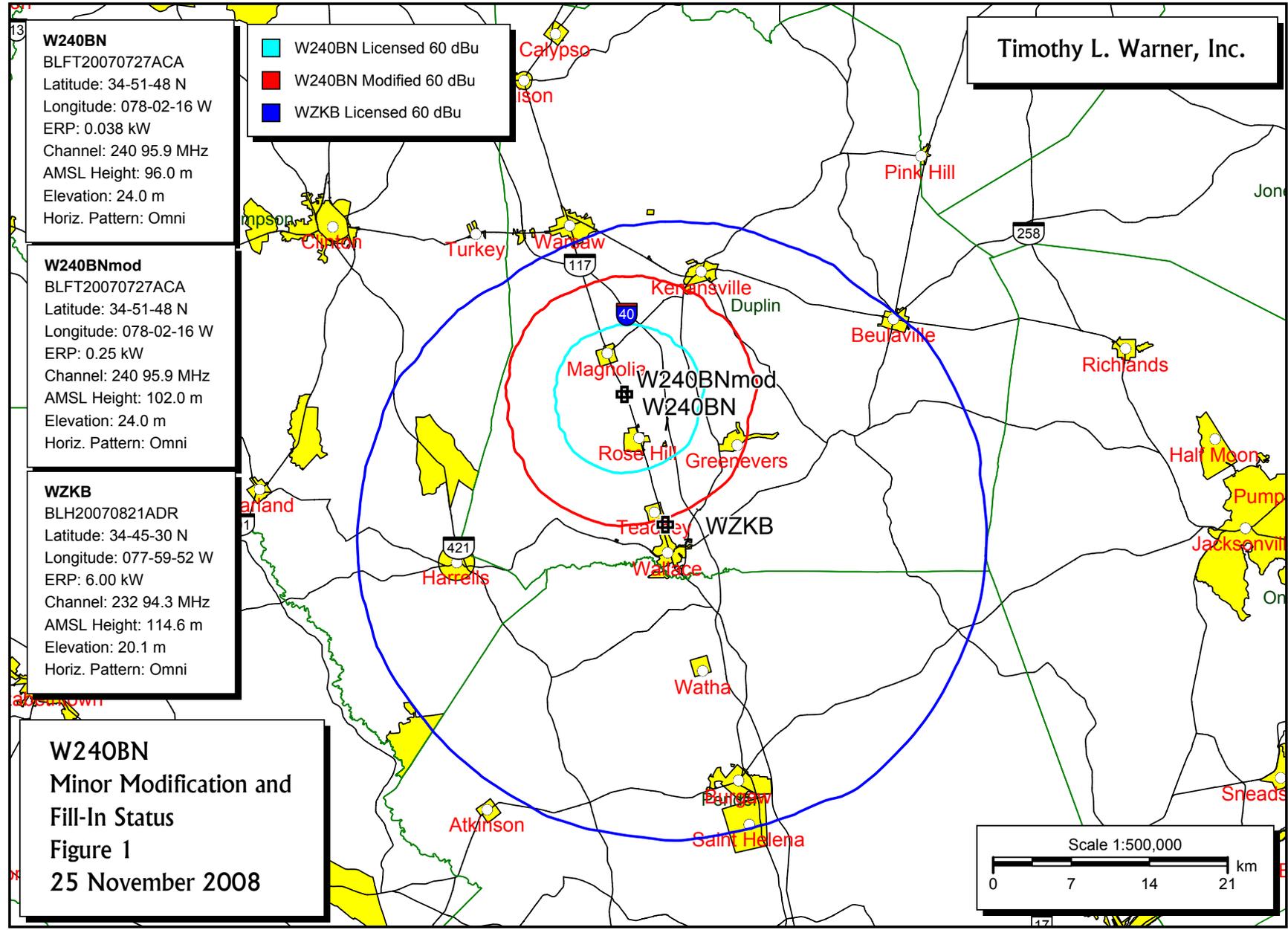
W240BN
BLFT20070727ACA
Latitude: 34-51-48 N
Longitude: 078-02-16 W
ERP: 0.038 kW
Channel: 240 95.9 MHz
AMSL Height: 96.0 m
Elevation: 24.0 m
Horiz. Pattern: Omni

W240BNmod
BLFT20070727ACA
Latitude: 34-51-48 N
Longitude: 078-02-16 W
ERP: 0.25 kW
Channel: 240 95.9 MHz
AMSL Height: 102.0 m
Elevation: 24.0 m
Horiz. Pattern: Omni

WZKB
BLH20070821ADR
Latitude: 34-45-30 N
Longitude: 077-59-52 W
ERP: 6.00 kW
Channel: 232 94.3 MHz
AMSL Height: 114.6 m
Elevation: 20.1 m
Horiz. Pattern: Omni

- W240BN Licensed 60 dBu
- W240BN Modified 60 dBu
- WZKB Licensed 60 dBu

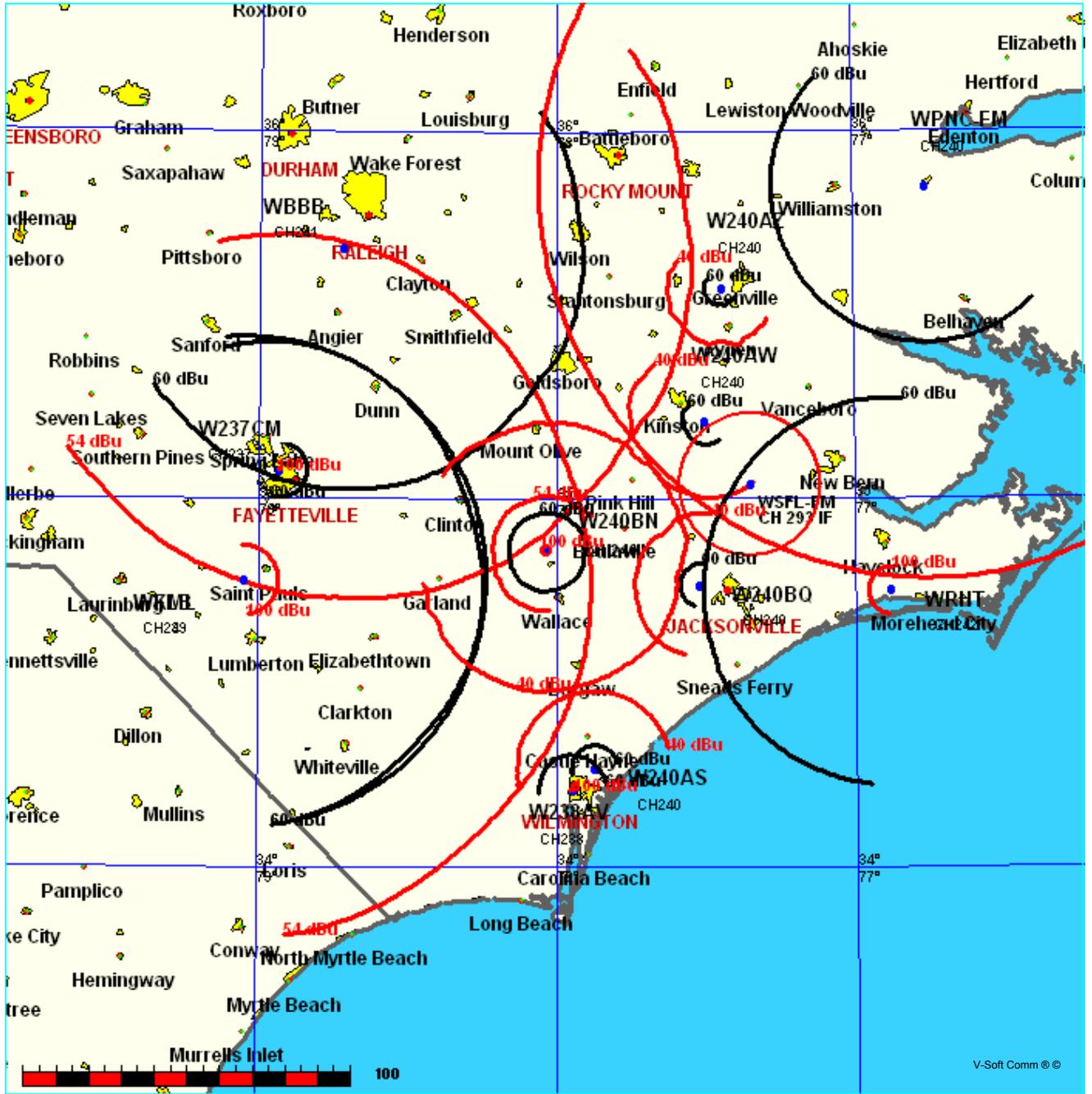
W240BN
Minor Modification and
Fill-In Status
Figure 1
25 November 2008



FMCommander Full Allocation Study - NED 03 SEC

11-25-2008

W240BN CH 240 D
Lat= 34 51 48.0, Lng= 78 02 16.0
0.25 kW 83.5 M HAAT, 112 M COR



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 Figure 3: Allocation Study Detail: W240BQ

FMCommander Single Allocation Study - 11-25-2008 - NED 03 SEC
 W240BN's Overlaps (In= 16.77 km, Out= 1.27 km)

W240BN CH 240 D
 Lat= 34 51 48.0, Lng= 78 02 16.0
 0.25 kW 83.5 M HAAT, 112 M COR
 Prot.= 60 dBu, Intef.= 40 dBu

W240BQ CH 240 D BLFT20070816AAC
 Lat= 34 46 08.0, Lng= 77 31 24.0
 0.038 kW 0 M HAAT, 76 M COR
 Prot.= 60 dBu, Intef.= 40 dBu

