

Hickory, North Carolina
Long Form Application for FM Translator 1564371
File Number BNPFT-20030317LWZ
On Channel 263
by
Conner Media Corporation

Exhibit 13
Interference Analysis

August 2013

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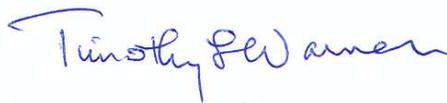
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Declaration

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 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 long form application for CDBS application ID 1564371, an amended “Tech Box” application in response to a filing window¹ for FM translator file number BNPFT-20030317LWZ, CDBS application ID 651420, on Channel 263 in Hickory, North Carolina. Allocation details are provided in this exhibit. The application proposes no changes from the tech box filing.

This proposal creates no new mutual exclusivities with any Auction 83 Tech Box filings or any other facility. A preclusion showing, provided in the amendment, is unchanged.

Figure 1 shows the proposed 60 dBu F(50,50) coverage area. The primary station WKVS 60 dBu F(50,50) contour is also shown. Figure 1 also shows the original 2003 Tech Box proposed contour. The proposed facilities are a minor modification with respect to the original Tech Box proposal.

Allocations

This application proposes service to Hickory, North Carolina, on channel 263. 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. Where the outgoing protection is provided by interference contours with a separation of less than 3.2 kilometers (2 miles), the lack of overlap is plotted in figures in this exhibit, and the output of the FM Over program is provided. For this application, there are no such facilities.

¹ *Public Notice, Media Bureau Announces FM Translator Auction 83 Filing Window and Filing Procedures, August 30, 2013 Deadline Set for Form 349 Applications for Certain Non-Mutually Exclusive Tech Box Proposals*, Report No. AUC-03-83-E, DA13-1675, released July 31, 2013.

Table 1: Allocations

Allocation Study															
Conner Media Corporation															
CH# 263D - 100.5 MHz, Pwr= 0.25 kW DA, HAAT= 79.0 M, COR= 453 M															
Average Protected F(50-50)= 11.5 km															
Standard Directional															
DISPLAY DATES															
DATA 08-22-13															
SEARCH 08-22-13															
REFERENCE	CH#	263D	-	100.5	MHz	Pwr=	0.25	kW	DA,	HAAT=	79.0	M,	COR=	453	M
35 50 59.0 N.	81 26 40.0 W.														
CH	CALL	TYPE	ANT	AZI.	DIST	LAT.	Pwr(kw)	INT(km)	PRO(km)	*IN*	*OUT*				
CITY		STATE		<--	FILE #	LNG.	HAAT(M)	COR(M)	LICENSEE	(Overlap	in km)				
263C0	WSSL-FM	LIC	NCX	203.3	154.27	34 34 18.0	100.000	181.1	78.1	-39.7*	32.3				
	Gray Court		SC	22.9	BLH20050923AFT	82 06 44.0	381	587	Capstar Tx Llc						
263D	1564371	APP	DC	0.0	0.00	35 50 59.0	0.250	23.8	7.1	-30.8*	-30.8*				
	Hickory		NC	0.0	BNPFT20030317LWZ	81 26 40.0		453	Conner Media Corporation						
Tech Box filing for which this is the Long Form Application															
265D	640588	APP	C	148.1	14.06	35 44 32.0	0.055	0.5	4.8	0.1	8.3				
	Hickory		NC	328.1	BNPFT20030317BGV	81 21 43.0	31	352	Radio Training Network, In						
264D	1564359	APP	DC	112.0	32.99	35 44 17.0	0.250	10.8	6.5	8.4	2.5				
	Hickory		NC	292.2	BNPFT20030317MAH	81 06 22.0		354	Conner Media Corporation						
264A	WZJS	LIC	CX	313.6	54.02	36 11 03.0	0.150	39.1	24.4	5.0	13.3				
	Banner Elk		NC	133.4	BLH20080422AAN	81 52 48.0	593	1661	High Country Adventures, L						
262L1	WHGW-LP	LIC		242.3	35.32	35 42 06.0	0.090	12.7	8.8	9.3	6.7				
	Morganton		NC	62.1	BLL20040813AAZ	81 47 25.0	31	415	Morganton Christian Radio						
261D	633997	APP	C	48.4	37.98	36 04 34.0	0.010	0.2	9.5	26.3	27.3				
	Wilkesboro		NC	228.6	BNPFT20030311ABR	81 07 43.0	292	705	Cumberland Communities Com						
262C	WVBZ	LIC	CN	84.3	146.80	35 58 09.0	100.000	106.0	72.9	26.8	53.5				
	High Point		NC	265.3	BLH19880805LB	79 49 29.0	316	554	Capstar Tx Llc						
263A	AL5370	RSV-A		351.8	106.23	36 47 50.0	6.000	68.3	15.8	29.4	61.3				
	Glade Spring		VA	171.7	RM11280	81 36 52.0	100	855							
263A	WFYE	LIC	CX	354.7	107.30	36 48 45.4	6.000	68.3	15.8	30.8	67.7				
	Glade Spring		VA	174.7	BLH20080917AAF	81 33 20.4	-4	789	Hb Radio, Llc						
260C	AL7225	RSV-A		248.7	127.85	35 25 32.0	100.000	14.5	93.9	100.2	32.0				
	Old Fort		NC	67.9	RM10197	82 45 25.0	600	1590							
260C	WKSF	LIC	C	248.7	127.85	35 25 32.0	53.000	12.6	93.9	102.2	32.1				
	Old Fort		NC	67.9	BMLH20031105AEC	82 45 25.0	799	1781	Capstar Tx Llc						
261D	1564836	APP	DC	333.5	47.44	36 13 55.0	0.010	0.1	8.0	37.2	37.6				
	Boone		NC	153.4	BNPFT20030317FSV	81 40 50.0		1328	Wake Forest University						
265A	WIFM-FM	LIC	NCX	54.6	66.97	36 11 50.0	0.470	1.5	18.2	53.5	45.9				
	Elkin		NC	234.9	BLH20020619AAF	80 50 13.0	216	540	Yadkin Valley Broadcasting						
210C1	WDAV	LIC	DCX	129.1	70.58	35 26 54.0	100.000	8.1	39.6	21.5R	49.1M				
	Davidson		NC	309.4	BLED20130603AUH	80 50 23.0	246	474	The Trustees Of Davidson C						
210C1	WDAV	LIC	DC	129.1	70.58	35 26 54.0	100.000	8.1	39.6	21.5R	49.1M				
	Davidson		NC	309.4	BMLE20050902AAD	80 50 23.0	246	474	The Trustees Of Davidson C						
261D	w261BZ	CP	C	120.9	68.40	35 31 57.0	0.170	0.9	12.2	53.3	55.0				
	Huntersville		NC	301.3	BNPFT20130325APS	80 47 47.0		356	Radio Training Network, In						
261D	w261AP	LIC	C	167.5	70.14	35 13 57.0	0.007	0.2	7.7	55.8	61.3				
	Kings Mountain		NC	347.6	BLFT20070419AAL	81 16 36.0	241	482	Positive Alternative Radio						
262D	w262BM	LIC	DC	135.4	90.64	35 16 03.0	0.010	1.4	0.7	75.8	69.4				
	Charlotte		NC	315.8	BLFT20081030ABQ	80 44 35.0	173	378	Isothermal Community Colle						

Terrain database is NED 03 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 protected 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. 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 V-Soft Communications NED 03 terrain database. The NED 03 database is derived from the USGS National Elevation Data 30 meter terrain database.

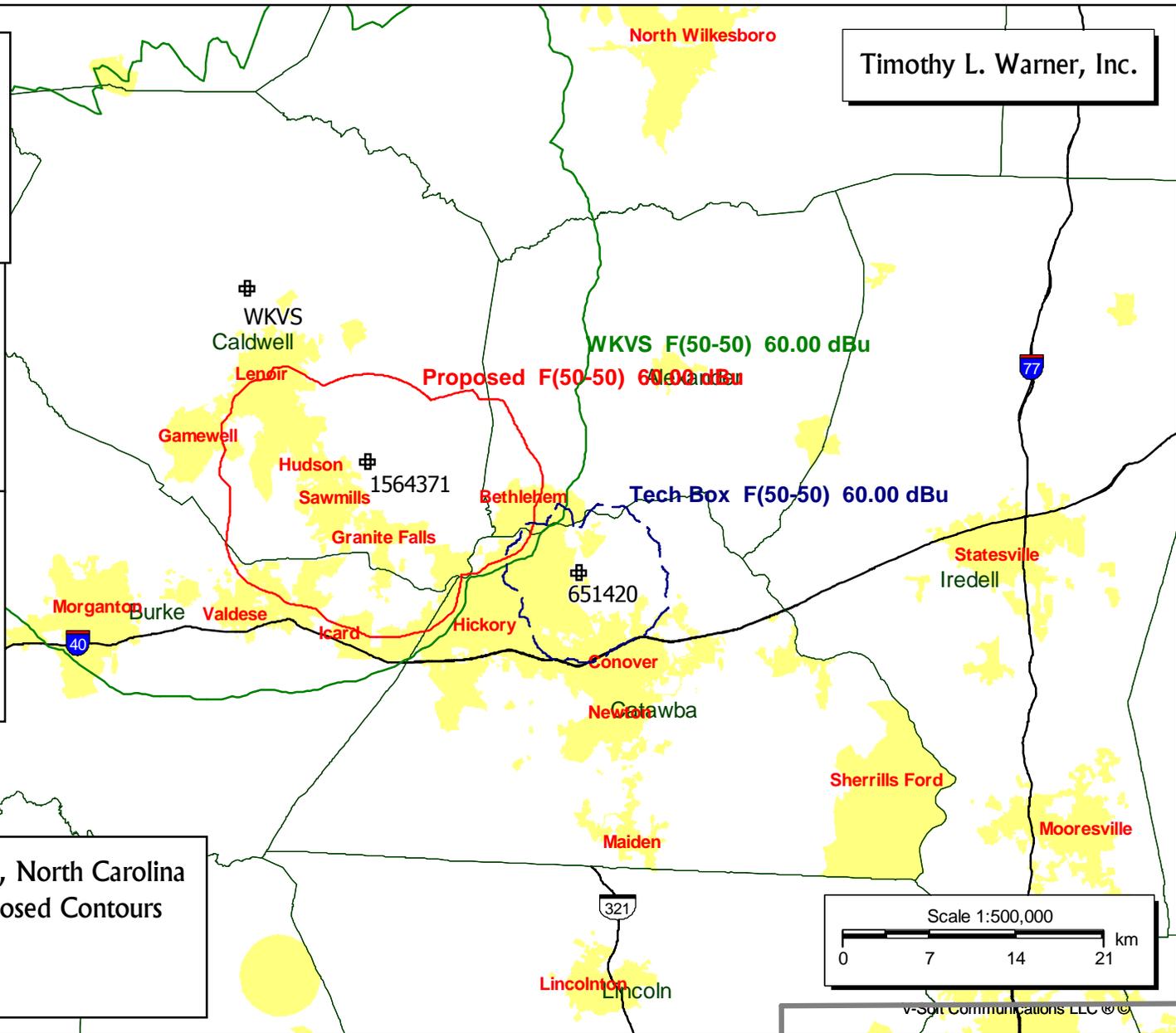
All population data is from 2010 U.S. Census PL data files. Population is counted by considering the location of the centroid of each census block. The data for each block is counted if it falls within the area being counted.

1564371
BNPFT20030317LWZ
Latitude: 35-50-59 N
Longitude: 081-26-40 W
ERP: 0.25 kW
Channel: 263 100.5 MHz
AMSL Height: 453.0 m
Elevation: 353.0 m
Horiz. Pattern: Directional

651420
BNPFT20030317LWZ
Latitude: 35-46-11 N
Longitude: 081-15-26 W
ERP: 0.019 kW
Channel: 261 100.1 MHz
AMSL Height: 394.0 m
Elevation: 343.0 m
Horiz. Pattern: Omni

WKVS
BLH20061003ABC
Latitude: 35-58-30 N
Longitude: 081-33-07 W
ERP: 0.91 kW
Channel: 277 103.3 MHz
AMSL Height: 710.0 m
Elevation: 629.0 m
Horiz. Pattern: Omni

Timothy L. Warner, Inc.



1564371 Hickory, North Carolina
Tech Box and Proposed Contours
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Figure 1

Scale 1:500,000
0 7 14 21 km