

[Exhibit 12]

## **Non-Interference Compliance**

Regarding FCC File Number: BNPFT-20030317GTK

Channel: 243

### **Description of Exhibit 12 Contents**

This exhibit demonstrates that the proposed facility complies with contour overlap and interference protection provisions in all the applicable rule sections and that this application for a construction permit is in full compliance with 47 CFR 74.1204.

Page 2 of this exhibit is an explanation of the tabulated data, which is included as evidence on page 4 of this exhibit.

Page 3 of this exhibit is an explanation of the method used to demonstrate compliance with contour overlap and interference protection provisions based on 47 CFR 74.1204(d), which states:

*"an application otherwise precluded by this section will be accepted if it can be demonstrated that no actual interference will occur due to intervening terrain, lack of population or such other factors as may be applicable."*

In addition, page 3 includes a tabulation of the second and third adjacent stations which this application is required to protect and the field strengths of those stations in the vicinity of the proposed translator. The field strengths given were based on contours predicted using FCC contour algorithms and 3 arc second terrain data.

**Let it be noted that should any actual real world interference occur, the applicant certifies that it will promptly suspend operation of this translator in accordance with 47 CFR 74.1203.**

Page 4 of this exhibit is the tabulated data from the interference analysis, which shows all stations that this application had to consider for contour protection. These tabulated values were generated using high resolution 3 arc second terrain data for the best possible accuracy.

Page 5 of this exhibit is a portion of a USGS 1:24,000 scale 7.5 min quadrangle at full scale with the calculated area of interference overlaid. The sheet includes the quadrangle name and measurement scale at the bottom-left corner (note: "Mt" refers to meters). The area of interference was calculated using a free-space calculation (see FCC 98-117, Appendix A, pg. 41 for reference to the equation used).

## **Explanation of Frequency Finder Results**

The interference analysis for this application was performed using the "Frequency Finder" module in RadioSoft's Comstudy, version 2.2.

Frequency Finder analyzes data taken directly from the FCC's FM database and looks for prohibited overlap with contours of adjacent stations and prohibited proximity to stations 53 or 54 channels from the proposed station (IF) using 3 arc second terrain data and the FCC's contour algorithms. The results tabulated are the stations returned from that analysis. (Note: Because Comstudy was looking at the FCC's FM database, it took into account the proposed translator when doing the analysis and returned it in the tabulated results. For the sake of simplicity, that record has been deleted from all tabulated results.)

The first several columns of the table are self-explanatory. They give various data on the stations in question. The column labeled "Clr" gives the proposed translator's "clearance" with respect to the tabulated station, either in dB or km. The values listed with no units are given in km and are for stations located on an IF to the proposed site's channel.

**A negative value in the "Clr" column does NOT necessarily represent prohibited contour overlap, as explained below.**

A negative value listed in the "Clr" column would indicate either overlap of interference and protected contours or prohibited proximity to an IF station except in the following situations:

-Since the proposed station's Effective Radiated Power (ERP) is 13 watts, a negative value in km (no units listed in the table) does not represent a violation of the CFR, according to 47 CFR 1204(g), which states that "FM translator stations and booster stations operating with less than 100 watts ERP will be treated as class D stations and will not be subject to intermediate frequency separation requirements."

- A second or third adjacent LP100 station cannot represent a violation of the CFR, as 47 CFR 74.1204(a)(4) requires protection of only co-channel and first adjacent LP100 stations.

- 47 CFR 74.1204(a) requires only the protection of "AUTHORIZED commercial or noncommercial educational FM broadcast stations, FM translators, ..." Any entry with a status listed as "RSV," "USE" or "APP" does not represent an authorized station and therefore is not protected under 47 CFR 74.1204. The one exception is the case of LP100 applications. The note to 47 CFR 74.1204(a)(4) states that "LPFM applications and permits that have not yet been licensed must be considered as operating with the maximum permitted facilities." Therefore, any first adjacent or co-channel LP100 station, no matter the status, is protected.

-Entries highlighted in red are those stations where there is overlap of predicted contours and lack of population has been demonstrated within the area of interference.

## Compliance with 47 CFR 74.1204(d)

The proposed translator's Maximum Effective Radiated Power (ERP) is 0.013kW at 61 meters above ground level. According to 47 CFR, 74.1204(a), the desired to undesired ratio between 2nd/3rd adjacent stations is 40dB, making the proposed translator's interfering contour 132.2dBu F(50,10).

Using a free-space calculation (equation referenced in FCC 98-117, Appendix A, pg. 41), this proposed translator's F(50,10) interference contour was calculated and plotted on the pertinent portion of a USGS quadrangle (page 5 of this exhibit). As demonstrated on the quadrangle, there are no populated structures or highways within the calculated area of interference (Note: FCC 02-244, II, A, 6 states that USGS quadrangles are sufficient for demonstrating lack of population). Hence, in accordance with 47 CFR 74.1204(d) and the clarification provided by the FCC in the decision Re: Living Way Ministries (FCC 02-244), a lack of population has been demonstrated within the area of interference and therefore this application is in full compliance with 47 CFR 74.1204.

CORAGL: 61m  
Maximum ERP: 0.013kW

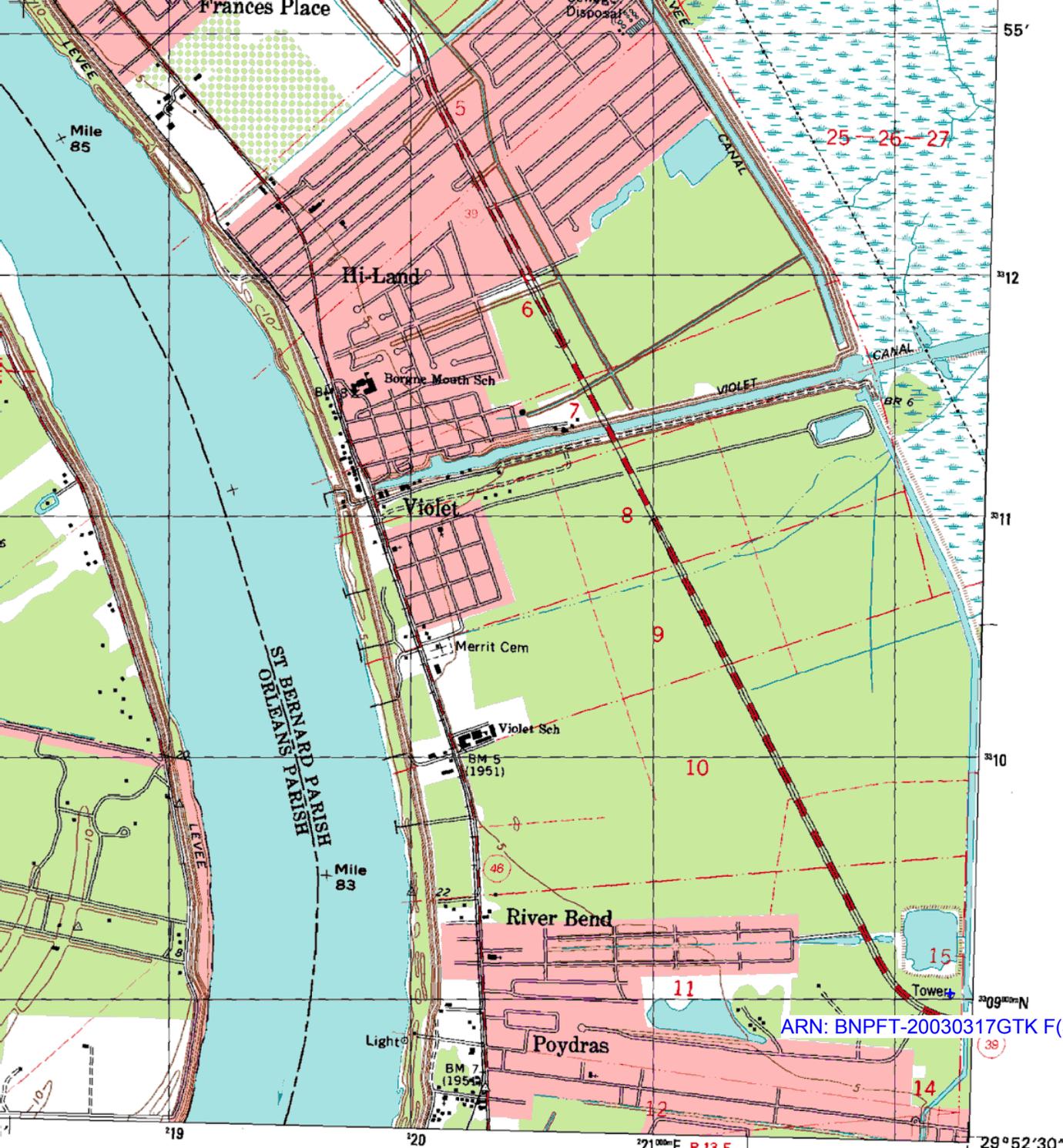
Antenna Manufacturer: SWR  
Antenna Model: FM1

F(50,10) Interfering Contour: 132.2dBu  
F(50,10) Max Distance: 6.2m

The F(50,50) signal strength of all relevant second and third adjacent stations have been examined, and are tabulated below. Column three shows the station's signal level at the proposed translator's tower site, and column four gives the minimum value within the entire proposed translator's standard F(50,10) contour (100 dBu for most classes, 94 dBu for class B's, 97 dBu for class B1's). For signal levels too great to determine, 999 was entered. The minimum F(50,50) contour within the proposed translator's standard F(50,10) contour was used to calculate the proposed translator's interference contour, thereby assuring a minimum undesired-to-desired ratio of 40dB for all relevant adjacent stations, as required in 47 CFR, 74.1204(a).

FCC File Number	Call Sign	F(50,50) Contour at Tower	Min. F(50,50) Contour
BLH19890913KB	WEZB	93dBu	92.2dBu
Minimum F(50,50) Protected Contour of Adjacent Station Within Proposed Translator's standard F(50,10) Contour:			<b>92.2dBu</b>

Callsign	State	City	Channel	ERP_w	Licensee	ARN	Class	Status	Distance_km	Clr	Facility_id
WEZB	LA	NEW ORLEANS	246	100000	ENTERCOM NEW ORLEANS LICENSE, LLC	BLH19890913KB	C	LIC	15.03	-33.56 dB	20346
NEW	LA	NEW ORLEANS	243	100	CENTRAL CITY PARTNERSHIP	BNPL20000608AGF	LP100	APP	21.93	0.60 dB	124886
NEW	LA	NEW ORLEAN	243	100	DILLARD UNIVERSITY	BNPL20000605AGC	LP100	APP	22.24	0.89 dB	124251
NEW	LA	NEW ORLEANS	243	100	MUSIC BUSINESS INSTITUTE, INC.	BNPL20000605AMF	LP100	APP	36.5	8.05 dB	124759
NEW	LA	NEW ORLEANS	242	100	NEW ORLEANS ACORN EDUCATION PROJECT, INC.	BNPL20000605AII	LP100	APP	20.02	12.97 dB	124378
NEW	LA	NEW ORLEANS	242	100	BAND, INC.	BNPL20000607ACY	LP100	APP	21.98	14.66 dB	124914
NEW	LA	MARRERO	242	100	JEFFERSON PARISH	BNPL20000605AMP	LP100	APP	23.03	15.54 dB	124790
WEZB	LA	NEW ORLEANS	246	0	ENTERCOM NEW ORLEANS LICENSE, LLC		C	USE	15.03	15.80 dB	20346
NEW	LA	NEW ORLEANS	242	100	LSU HEALTH SCIENCE CENTER	BNPL20000606ACK	LP100	APP	23.54	16.04 dB	124905
NEW	LA	NEW ORLEANS	242	100	NEW ORLEANS MEDIA CENTER, INC.	BNPL20000605ALG	LP100	APP	23.67	16.11 dB	124567
NEW	LA	NEW ORLEANS	242	100	NEW ORLEANS CITY PARK IMPROVEMENT ASSOCIATION	BNPL20000608ADJ	LP100	APP	24.75	17.18 dB	124770
NEW	LA	BURAS-TRIUMPH	243	19	RADIO ASSIST MINISTRY INC.	BNPFT20030317GSP	D	APP	66.94	18.10 dB	146872
NEW	LA	METAIRIE	242	100	NEW ORLEANS YOUTH AT RISK	BNPL20000605AKF	LP100	APP	31.75	22.39 dB	124506
NEW	LA	METAIRIE	242	100	EDUCATION ENHANCEMENT 2000	BNPL20000607AAT	LP100	APP	33.19	23.33 dB	124112
WTGG	LA	AMITE	243	6000	SOUTHWEST BROADCASTING, INC.	BPH20030414ACC	A	APP	96.94	23.49 dB	41571
WTGG	LA	AMITE	243	6000	SOUTHWEST BROADCASTING, INC.	BLH19970218KC	A	LIC	105.52	25.72 dB	41571
KRVE	LA	BRUSLY	241	50000	CAPSTAR TX LIMITED PARTNERSHIP	BLH20030227ADE	C2	LIC	128.27	28.75 dB	40866
KBZZ-FM	LA	MORGAN CITY	244	12000	GUARANTY BROADCASTING COMPANY OF HOUMA, LLC	BLH20010327AAM	C3	LIC	110.59	28.31 dB	67677
WUJM	MS	GULFPORT	244	4400	MONTEREY LICENSES, LLC	BMLH19940111KB	A	LIC	105.95	32.47 dB	61305
WTGG	LA	AMITE	243	0	SOUTHWEST BROADCASTING, INC.		A	USE	111.75	33.82 dB	41571
WRKH	AL	MOBILE	241	77000	CLEAR CHANNEL BROADCASTING LICENSES, INC.	BPH20020226ACL	C	CP	216.25	35.62 dB	53142
WBBN	MS	TAYLORSVILLE	240	100000	BLAKENEY COMMUNICATIONS, INC	BMPH20021121AAD	C1	APP	198.11	36.29 dB	71207
WRKH	AL	MOBILE	241	97000	CLEAR CHANNEL BROADCASTING LICENSES, INC.	BLH19901022KG	C	LIC	216.25	36.35 dB	53142
WBBN	MS	TAYLORSVILLE	240	100000	BLAKENEY COMMUNICATIONS, INC	BMPH20021121AAD	C1	APP	198.11	36.29 dB	71207
WBBN	MS	TAYLORSVILLE	240	100000	BLAKENEY COMMUNICATIONS, INC	BMPH20021121AAD	C1	APP	198.11	39.39 dB	71207

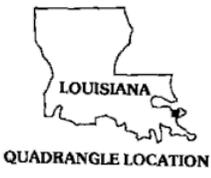


ARN: BNPFT-20030317GTK F(50,10)

21 000"E R 13 E  
 INTERIOR - GEOLOGICAL SURVEY, RESTON, VIRGINIA - 2001  
 29°52'30" 89°52'30"

**ROAD CLASSIFICATION**

- Primary highway hard surface .....
- Secondary highway hard surface .....
- Light-duty road, hard or improved surface .....
- Unimproved road .....
- Interstate Route
- U.S. Route
- State Route



1	2	3	1 Spanish Fort
			2 Little Woods
			3 Chef Menteur
4		5	4 New Orleans East
			5 Martello Castle
			6 Bertrandville
6	7	8	7 Belle Chasse
			8 Delacroix

ADJOINING 7.5' QUADRANGLE NAMES  
 LA 200A

**CHALMETTE, LA**

1998

NIMA 8043 IV NW-SERIES V885

