

[Exhibit 12]

## **Non-Interference Compliance**

Regarding Facility id 146875

Channel 243

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

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

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

Page 2 of this exhibit is an explanation of the method used to demonstrate compliance with contour overlap and interference provisions based on 47 C.F.R. § 74.1204(d), which states:

*[A]n 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.*

Page 3 of this exhibit contains the tabulated data from the interference analysis, which shows all stations whose protected contours come within 50 km of the 34 dB $\mu$  F(50,10) contour of the proposed translator. These tabulated values were calculated using data from the FCC's CDBS files and 30 arc second terrain data. The column labeled "Adj" shows the number of channels difference between the entry and the proposed translator. The column labeled "Dist" shows the distance in km. The column labeled "Overlap" shows the area of contour overlap in square kilometers.

Page 4 of this exhibit is a portion of a USGS 1:24,000 scale 7.5 minute 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 the free space equation and 120 radials.

Page 5 of this exhibit is a high resolution aerial photo of the vicinity surrounding the proposed translator's tower site provided by the U.S. Geological Survey's National Aerial Photography Program. It has been included to provide clarification of the nature of the buildings in the vicinity.

**Note: The quadrangle and aerial photo indicate the presence of an unimproved county road in the area of interference. It is apparent that this is not a major road, e.g. interstate highway, as described in the Living Way decision and therefore "lack of population" is demonstrated**

## Compliance with 47 C.F.R. § 74.1204(d)

All authorized second and third adjacent stations with which the proposed translator has contour overlap are tabulated below. Column four show the station's signal level at the proposed translator's tower site, and column five gives the minimum value within the entire standard interfering contour of the proposed translator (100 dB $\mu$  for most classes, 94 for class B, 97 for class B1). The minimum second or third adjacent F(50,50) contour within the proposed translator's standard interfering contour was used to calculate the proposed translator's actual "worst-case" interfering contour.

<b>Application_id</b>	<b>File Number</b>	<b>Callsign</b>	<b>Contour at Tower</b>	<b>Min. Contour</b>
177046	BLH19920918KG	WEZB	97.3	95.2
981718	BMLH20031124APH	WEZB	102.7	100.8
Minimum F(50,50) Contour of Adjacent Station within Proposed Translator's Standard Interfering Contour				<b>95.2</b>

FCC 02-244 at Section II.A.5 states that "when demonstrating that 'no actual interference will occur due to . . . other factors,' pursuant to Section 74.1204(d), an applicant may use the undesired-to-desired signal ratio method." The undesired-to-desired ratio for second and third adjacent stations required by § 74.1204(a) is 40 dB. Since the minimum protected contour strength within the proposed translator's standard interference contour is **95.2 dB $\mu$** , this makes the proposed translator's worst-case interfering contour **135.2 dB $\mu$** . By the free-space equation, this contour is calculated to extend a maximum of **19.3 m** from the transmit antenna.

The interfering contour of the proposed translator was calculated for 120 radials and plotted on the pertinent portion of a USGS quadrangle (page 4 of this exhibit). As demonstrated on the quadrangle, there are no populated structures or highways within the area of interference (Note: FCC 02-244 at Section II.A.6 states that USGS quadrangles "have been recognized as acceptable to demonstrate lack of population"). Hence, in accordance with 47 C.F.R. § 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 this application is therefore in full compliance with 47 C.F.R. § 74.1204.

**Note: The quadrangle and aerial photo indicate the presence of an unimproved county road in the area of interference. It is apparent that this is not a major road, e.g. interstate highway, as described in the Living Way decision and therefore "lack of population" is demonstrated.**

**Antenna Manufacturer:** TEL  
**Antenna Model:** ANT90D  
**CORAGL:** 30 m  
**Maximum ERP:** 0.25 kW  
**Interfering Contour:** 135.2 dB $\mu$   
**Max Int. Contour Distance:** 19.3 m

## Adjacent Channel Study For Station K243AT, Facility\_id: 146875

### Co-channel through third adjacent:

Application_id	Facility_id	Prefix	ARN	Call	Licensee	Class	City	State	Status	ERP	RCAMSL	Channel	Adj	Dist	Overlap
981718	20346	BMLH	20031124APH	WEZB	ENTERCOM NEW ORLEANS LICENSE, LLC	C	NEW ORLEANS	LA	LIC	99	300	246	3	8.5	1.4918
177046	20346	BLH	19920918KG	WEZB	SINCLAIR RADIO OF NEW ORLEANS LICENS	C	NEW ORLEANS	LA	LIC	62	198	246	3	8.5	1.4918
1024856	20346	BPH	20040629ABT	WEZB	ENTERCOM NEW ORLEANS LICENSE, LLC	C	NEW ORLEANS	LA	APP	100	452	246	3	9.5	1.4918
680461	146872	BNPFT	20030821ADG	K243AS	RADIO ASSIST MINISTRY, INC.	D	BURAS-TRIUMPH	LA	CP	0.019	96	243	0	71.7	0
1145778	41571	BPH	20060714AAT	WTGG	SOUTHWEST BROADCASTING, INC.	A	AMITE	LA	APP	6	125.7	243	0	92.5	0
241475	41571	BLH	19970218KC	WTGG	SOUTHWEST BROADCASTING, INC.	A	AMITE	LA	LIC	6	141	243	0	101.2	0
1133318	61305	BLH	20060608AED	WUJM	MONTEREY LICENSES, LLC	A	GULFPORT	MS	LIC	4.3	129.9	244	1	103.9	0
558181	67677	BLH	20010327AAM	KBZZ-FM	GUARANTY BROADCASTING CO., OF HOUMA	C3	MORGAN CITY	LA	LIC	12	145	244	1	104.5	0
627876	40866	BLH	20030227ADE	KRVE	CAPSTAR TX LIMITED PARTNERSHIP	C2	BRUSLY	LA	LIC	50	151	241	2	122	0

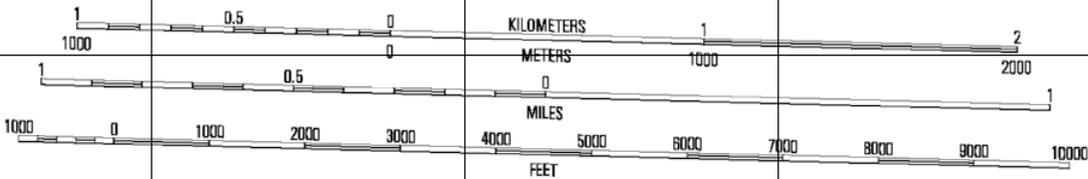
### Intermediate Frequencies (53 and 54 channels difference):

Application_id	Facility_id	Prefix	ARN	Call	Licensee	Class	City	State	Status	ERP	RCAMSL	Channel	Adj	Dist	Clr
970742	680	BLH	20040120ADE	WHMD	NORTH SHORE BROADCASTING COMPANY, INC.	A	HAMMOND	LA	LIC	6	104	296	53	67.6	57.6



Facility id: 146875;  
Area of Interference;

SCALE 1:24 000



CONTOUR INTERVAL 5 FEET  
NATIONAL GEODETIC VERTICAL DATUM OF 1929  
TO CONVERT FROM FEET TO METERS, MULTIPLY BY 0.3048

