

## **Non-Interference Compliance**

Regarding Facility id 143811

Channel 223

### **Description of Exhibit 13 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 dBμ 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 an aerial photo of the vicinity surrounding the proposed translator's tower site.

**Note: The only structures within the zone of interference are unoccupied communications buildings and there are no major roads within the zone, so 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.**

### 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 dBμ 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.

Application_id	File Number	Callsign	Contour at Tower	Min. Contour
1068657	BLH20050627AAR	WBLX-FM	76.7	76.4
1185027	BLH20070510ACU	WZEW	70.4	70.49
Minimum F(50,50) Contour of Adjacent Station within Proposed Translator's Standard Interfering Contour				<b>70.5</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 **70.5 dBμ**, this makes the proposed translator's worst-case interfering contour **110.5 dBμ**. By the free-space equation, this contour is calculated to extend a maximum of **264.9 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").

**Note: The only structures within the zone of interference are unoccupied communications buildings and there are no major roads within the zone, so 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.**

**Antenna Manufacturer:** NIC  
**Antenna Model:** BKG77-2(FW) @ 300°  
**CORAGL:** 160 m  
**Maximum ERP:** 0.16 kW  
**Interfering Contour:** 110.5 dBμ  
**Max Int. Contour Distance:** 264.9 m

# **Adjacent Channel Study** **For Station W223BX, Facility\_id: 143811**

## **Co-channel through third adjacent:**

App_id	Fac_id	File_Number	Call	Licensee	Class	City	State	Status	ERP	RCMSL	Chan	Adj	Dist	Overlap
1185027	74287	BLH-20070510ACU	WZEW	.COM+, L.L.C.	C3	FAIRHOPE	AL	LIC	20.5	122	221	2	23.6	0.7502
1068657	2540	BLH-20050627AAR	WBLX-FM	CUMULUS LICENSING LLC	C	MOBILE	AL	LIC	98	553.4	225	2	47.5	0.7502
1315311	143804	BLFT-20090529ARO	W223AX	STEWART BROADCASTING COMPANY, INC.	D	FOLEY	AL	LIC	0.25	86	223	0	53.1	0
1579717	143794	BPFT-20131018ABO	W222BR	OMNI BROADCASTING, LLC	D	PENSACOLA	FL	APP	0.2	299	222	1	65.9	0
583905	24513	BLH-20010118ABJ	WQYZ	CAPSTAR TX LLC	A	OCEAN SPRINGS	MS	LIC	6	104	223	0	77	0
1224510	143808	BLFT-20071210ABT	W223BF	ALAN KILGORE	D	JACKSON	AL	LIC	0.038	85	223	0	90.3	0
1553875	143794	BLFT-20130506AEJ	W222BR	OMNI BROADCASTING, LLC	D	POLLARD	AL	LIC	0.25	43	222	1	92.8	0
1570300	150841	BPFT-20130822AEW	W218CI	FAITH BROADCASTING, INC.	D	BREWTON	AL	CP	0.027	129	221	2	112.4	0
203333	11226	BLH-19941018KB	WJMG	CIRCUIT BROADCASTING COMPANY OF HATTIESB	A	HATTIESBURG	MS	LIC	6	154	221	2	130.9	0
1241922	68907	BLH-20080310ADI	WGDQ	VERNON FLOYD DBA CIRCUIT BROADCASTING OF	C3	SUMRALL	MS	LIC	25	165	226	3	141.1	0
1256217	43690	BMLD-20080711ABM	WMBV	THE MOODY BIBLE INSTITUTE OF CHICAGO	C1	DIXONS MILLS	AL	LIC	62	259	220	3	159.2	0

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

App_id	Fac_id	File_Number	Call	Licensee	Class	City	State	Status	ERP	RCMSL	Channel	Adj	Dist	Clr
1620342	10477	BMPH-20140128ABZ	WOSM	TELESOUTH COMMUNICATIONS, INC.	C1	OCEAN SPRINGS	MS	CP MOD	100	194	276	53	52.3	30.3
162142	10477	BLH-19910610KC	WOSM	TELESOUTH COMMUNICATIONS, INC.	C2	OCEAN SPRINGS	MS	LIC	50	143	276	53	66.7	51.7
1442783	150816	BLFT-20110906AAD	W277CC	DIVINE WORD COMMUNICATIONS	D	ATMORE	AL	LIC	0.25	172	277	54	64.4	54.4
1491951	150816	BPFT-20110912AAG	W277CC	DIVINE WORD COMMUNICATIONS	D	PENSACOLA	FL	CP	0.25	131	277	54	92.6	82.6



3345' SW  
(KUSHLA)

" = 0.379Mi 610Mt 2,000Ft, 1 Mi = 2.640" , 1 cm = 240Mt



