

## **Non-Interference Compliance**

Regarding Facility id 149152

Channel 257

### **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: There are no buildings or major roads within the zone of predicted interference 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.

<b>Application_id</b>	<b>File Number</b>	<b>Callsign</b>	<b>Contour at Tower</b>	<b>Min. Contour</b>
1513574	BPH20120831AAJ	WAJV	61.4	61.4
213415	BLH19950905KA	WAJV	69.6	66.2
Minimum F(50,50) Contour of Adjacent Station within Proposed Translator's Standard Interfering Contour				<b>61.4</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 **61.4 dBμ**, this makes the proposed translator's worst-case interfering contour **101.4 dBμ**. By the free-space equation, this contour is calculated to extend a maximum of **310.2 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: There are no buildings or major roads within the zone of predicted interference 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.**

<b>Antenna Manufacturer:</b>	<b>ERI</b>
<b>Antenna Model:</b>	<b>100-1</b>
<b>CORAGL:</b>	<b>67 m</b>
<b>Maximum ERP:</b>	<b>0.027 kW</b>
<b>Interfering Contour:</b>	<b>101.4 dBμ</b>
<b>Max Int. Contour Distance:</b>	<b>310.2 m</b>

**Adjacent Channel Study**  
**For Station W203BN, Facility\_id: 149152**

**Co-channel through third adjacent:**

App_id	Fac_id	File_Number	Call	Licensee	Class	City	State	Status	ERP	RCAMSL	Char	Adj	Dist	Overlap
213415	12229	BLH-19950905KA	WAJV	URBAN RADIO LICENSES, LLC	C3	BROOKSVILLE	MS	LIC	5.8	274	255	2	23	0.1611
1513574	12229	BPH-20120831AAJ	WAJV	URBAN RADIO LICENSES, LLC	C3	BROOKSVILLE	MS	CP	13	222	255	2	35.7	0.1611
230040	6664	BLH-19960730KC	WSMS	CUMULUS LICENSING LLC	C2	ARTESIA	MS	LIC	47	219	260	3	57.2	0
1544917	139455	BNPFT-20130312ACI	W259BP	CLEAR CHANNEL BROADCASTIN	D	MERIDIAN	MS	CP	0.038	168	259	2	81	0
1499744	86803	BLH-20120514AEK	WDGM	TOWNSQUARE MEDIA TUSCALO	C3	GREENSBORO	AL	LIC	6.4	274.3	256	1	95.5	0
1569883	191532	BNPH-20130723AAC	NEW	ETERNITY RECORDS COMPANY,	A	VARDAMAN	MS	CP	1.8	219	258	1	98.2	0

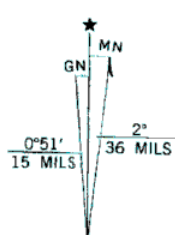


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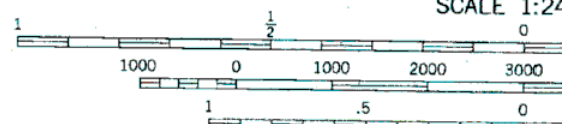
metric methods from aerial  
2. Field checked 1973  
foot grid ticks: Mississippi coordinate  
(transverse Mercator)  
transverse Mercator grid ticks,  
1927 North American datum

in which only landmark buildings are shown  
North American Datum 1983  
11 meters south and  
dashed corner ticks

compiled from aerial photographs taken 1981  
information not field checked. Map edited 1982



UTM GRID AND 1982 MAGNETIC NORTH  
DECLINATION AT CENTER OF SHEET



CONTOUR INTERVAL  
NATIONAL GEODETIC VERTICAL

THIS MAP COMPLIES WITH NATIONAL  
FOR SALE BY U. S. GEOLOGICAL SURVEY  
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND



