

Non-Interference Compliance

Regarding Facility id 146140

Channel 242

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 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.

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
175823	BLH19920803KD	WTGZ	64.1	64.1
260293	BLH19980112KC	WMXA	78.1	77.4
Minimum F(50,50) Contour of Adjacent Station within Proposed Translator's Standard Interfering Contour				64.1

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 **64.1 dBμ**, this makes the proposed translator's worst-case interfering contour **104.1 dBμ**. By the free-space equation, this contour is calculated to extend a maximum of **87.5 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.

Antenna Manufacturer:	WRL
Antenna Model:	FMPV1
CORAGL:	4 m
Maximum ERP:	0.004 kW
Interfering Contour:	104.1 dBμ
Max Int. Contour Distance:	87.5 m

Adjacent Channel Study
For Station W242AX, Facility_id: 146140

Co-channel through third adjacent:

Application_id	Facility_id	Prefix	ARN	Call	Licensee	Class	City	State	Status	ERP	RCMSL	Channel	Adj	Dist	Overlap
260293	22877	BLH	19980112KC	WMXA	ROOT COMMUNICATIONS LICENSE COMPANY,	A	OPELIKA	AL	LIC	3.5	316	244	2	9.4	0.0239
175823	48682	BLH	19920803KD	WTGZ	NEW WORLD COMMUNICATIONS, INC.	A	TUSKEGEE	AL	LIC	4.3	233	240	2	21	0.0239
993186	133833	BLL	20040512AET	WRNK-LP	REVIVAL NOW MINISTRIES	L1	LANETT	AL	LIC	0	215	242	0	36.3	0
1055713	124445	BLL	20050331BEM	WBUE-LP	CALVARY CHRISTIAN LIFE MINISTRIES, INC.	L1	COLUMBUS	GA	LIC	0	159	241	1	46.5	0
681559	150851	BNPFT	20030827AFM	W245AQ	RADIO ASSIST MINISTRY, INC.	D	ALEXANDER CITY	AL	CP	0.001	301	245	3	58.8	0
1117601	138348	BLFT	20060306BOI	W245AW	JIMMY JARRELL COMMUNICATIONS FOUNDATION	D	LA GRANGE	GA	LIC	0.038	275	245	3	62.3	0
1145195	50534	BPH	20060501ANO	WIOL	DAVIS BROADCASTING, INC. OF COLUMBUS	A	WAVERLY HALL	GA	APP	2.8	308	239	3	70	0
207053	50534	BLH	19950303KB	WIOL	DAVIS B/CASTING OF COLUMBUS, INC	C3	GREENVILLE	GA	LIC	3.4	530	239	3	74.5	0
169274	43628	BLH	19920130KA	WQKS-FM	MONTGOMERY BROADCAST PROPERTIES, LTD	A	MONTGOMERY	AL	LIC	0.9	306	241	1	82	0

