

Non-Interference Compliance

Regarding Facility id 150275

Channel 235

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
1158643	BLH20061113ADA	WMXL	82.3	82
563136	BLH20010501ACB	WVRB	103	98.6
Minimum F(50,50) Contour of Adjacent Station within Proposed Translator's Standard Interfering Contour				82

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 **82 dBμ**, this makes the proposed translator's worst-case interfering contour **122 dBμ**. By the free-space equation, this contour is calculated to extend a maximum of **24.3 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.

Antenna Manufacturer:	SWR
Antenna Model:	FM1
CORAGL:	61 m
Maximum ERP:	0.019 kW
Interfering Contour:	122 dBμ
Max Int. Contour Distance:	24.3 m

Adjacent Channel Study **For Station W235AK, Facility_id: 150275**

Co-channel through third adjacent:

Application_id	Facility_id	Prefix	ARN	Call	Licensee	Class	City	State	Status	ERP	RCMSL	Channel	Adj	Dist	Overlap
563136	69991	BLH	20010501ACB	WVRB	VERNON R. BALDWIN	A	WILMORE	KY	LIC	4.1	408	237	2	2.2	0.1134
1158643	68208	BLH	20061113ADA	WMXL	CITICASTERS LICENSES, L.P.	C1	LEXINGTON	KY	LIC	85	485	233	2	21.4	0.1134
649000	155751	BNPFT	20030317DRC	NEW	SONYA LYNN READ	D	PULASKI	KY	APP	0.013	418	235	0	84	0
631124	139967	BNPFT	20030313BBK	NEW	EDUCATIONAL MEDIA FOUNDATION	D	SOMERSET	KY	APP	0.205	410	235	0	89	0
181900	72388	BLH	19930212KD	WIKI	STAR MEDIA, INC.	A	CARROLLTON	KY	LIC	1.8	337	237	2	100.2	0
245741	21719	BMLH	19970506KC	WFLE-FM	FLEMING COUNTY BROADCASTING CO., INC	A	FLEMINGSBURG	KY	LIC	2.35	444	236	1	100.3	0
594209	73369	BXLH	20011114AAM	WSWD	WVAE LICO, INC.	B	FAIRFIELD	OH	LIC	6.8	462	235	0	129.4	0
201736	73369	BLH	19940817KA	WSWD	WGRL	B	FAIRFIELD	OH	LIC	20	450	235	0	138.1	0
177864	73369	BLH	19921014KE	WSWD	WGRL	B	FAIRFIELD	OH	LIC	10.5	542	235	0	138.1	0

