

## **Non-Interference Compliance**

Regarding Facility id 150843

Channel 224

### **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 a high resolution aerial photo of the vicinity surrounding the proposed translator's tower site. It has been included to provide clarification of the nature of the buildings in the vicinity.

### 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>
245713	BLFT19970505TE	K226AG	77.8	77.5
87842	BLH19860501KF	KIPR	86.3	86.2
Minimum F(50,50) Contour of Adjacent Station within Proposed Translator's Standard Interfering Contour				<b>77.5</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 **77.5 dBμ**, this makes the proposed translator's worst-case interfering contour **117.5 dBμ**. By the free-space equation, this contour is calculated to extend a maximum of **9.4 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.

<b>Antenna Manufacturer:</b>	<b>WRL</b>
<b>Antenna Model:</b>	<b>FMPV1</b>
<b>CORAGL:</b>	<b>4 m</b>
<b>Maximum ERP:</b>	<b>0.001 kW</b>
<b>Interfering Contour:</b>	<b>117.5 dBμ</b>
<b>Max Int. Contour Distance:</b>	<b>9.4 m</b>

**Adjacent Channel Study**  
**For Station K224CT, Facility\_id: 150843**

**Co-channel through third adjacent:**

Application_id	Facility_id	Prefix	ARN	Call	Licensee	Class	City	State	Status	ERP	RCMSL	Channel	Adj	Dist	Overlap
87842	13925	BLH	19860501KF	KIPR	RADIO LICENSE HOLDING CBC, LLC	C1	PINE BLUFF	AR	LIC	100	371	222	2	22	6160.34
245713	59475	BLFT	19970505TE	K226AG	EDUCATIONAL MEDIA FOUNDATION	D	PINE BLUFF	AR	LIC	0.25	127	226	2	3.9	114.742
643911	150844	BNPFT	20030317DAR	NEW	RADIO ASSIST MINISTRY, INC.	D	STAR CITY	AR	APP	0.115	201.5	227	3	39.2	0
1204014	150847	BLFT	20070907AGG	K226BH	HORIZON CHRISTIAN FELLOWSHIP	D	STUTTGART	AR	LIC	0.25	149	226	2	55.6	0
1189161	39751	BXLH	20070620ACG	KKSP	CRAIN MEDIA GROUP, LLC	C3	BRYANT	AR	LIC	0.275	261	227	3	62.8	0
1192088	150849	BLFT	20070622AAH	K223BM	HORIZON CHRISTIAN FELLOWSHIP	D	WARREN	AR	LIC	0.075	153	223	1	67.6	0
660113	39751	BLH	20030508ACT	KKSP	CRAIN MEDIA GROUP, LLC	C3	BRYANT	AR	LIC	5.6	338	227	3	76.5	0
1206582	170990	BNPH	20070502AAL	KIXC	NOALMARK BROADCASTING CORPORATION	A	BEARDEN	AR	CP	5.5	160	224	0	83.8	0
1074196	14465	BLH	20050721ABN	KASR	CREATIVE MEDIA INCORPORATED	C3	VILONIA	AR	LIC	25	206.7	224	0	92.8	0







