

Non-Interference Compliance

Regarding Facility id 151739

Channel 239

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.

Page 5 of this exhibit is a high resolution aerial photo of the vicinity surrounding the proposed translator's tower site provided by the U.S. Geological Survey's National Aerial Photography Program.

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
120105	BLH19881109KA	WEJZ	74.9	74.8
120196	BLH19881114KA	WAPE-FM	74.9	74.8
195948	BMLH19940317KC	WAPE-FM	64.1	64
218306	BLH19960111KI	WAPE-FM	73.6	73.5
593390	BXPH20020422AAA	WAPE-FM	64.2	64.1
Minimum F(50,50) Contour of Adjacent Station within Proposed Translator's Standard Interfering Contour				64

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 dBμ**, this makes the proposed translator's worst-case interfering contour **104 dBμ**. By the free-space equation, this contour is calculated to extend a maximum of **125.2 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"). 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:	64 m
Maximum ERP:	0.008 kW
Interfering Contour:	104 dBμ
Max Int. Contour Distance:	125.2 m

Adjacent Channel Study **For Station NEW, Facility_id: 151739**

Co-channel through third adjacent:

Application_id	Facility_id	Prefix	ARN	Call	Licensee	Class	City	State	Status	ERP	RCAMSL	Channel	Adj	Dist	Overlap
120196	70863	BLH	19881114KA	WAPE-FM	CAPSTAR TX LTD PARTNERSHIP	C	JACKSONVILLE	FL	LIC	100	304	236	3	40.6	0.0477
218306	70863	BLH	19960111KI	WAPE-FM	CAPSTAR TX LTD PARTNERSHIP	C	JACKSONVILLE	FL	LIC	100	263	236	3	40.6	0.0477
120105	55706	BLH	19881109KA	WEJZ	REND A B/CING CORP. OF NEVADA	C0	JACKSONVILLE	FL	LIC	100	304	241	2	40.6	0.0477
593324	70863	BXLH	20020422AAC	WAPE-FM	COX RADIO, INC.	C	JACKSONVILLE	FL	LIC	100	151	236	3	49.2	0.0477
195948	70863	BMLH	19940317KC	WAPE-FM	CAPSTAR TX LTD PARTNERSHIP	C	JACKSONVILLE	FL	LIC	100	151	236	3	49.2	0.0477
644885	151793	BNPFT	20030317DGD	NEW	RADIO ASSIST MINISTRY, INC.	D	NASSAU VILLAGE-RATL	FL	APP	0.027	87.4	238	1	38.8	0
644844	151753	BNPFT	20030317DEB	NEW	RADIO ASSIST MINISTRY, INC.	D	JACKSONVILLE	FL	APP	0.01	285.2	238	1	40.6	0
644853	151762	BNPFT	20030317DED	NEW	RADIO ASSIST MINISTRY, INC.	D	JACKSONVILLE	FL	APP	0.01	285.2	239	0	40.6	0
632121	140711	BNPFT	20030314AAZ	NEW	EDUCATIONAL MEDIA FOUNDATION	D	LAKE FOREST	FL	APP	0.027	92	238	1	41.4	0
644839	151749	BNPFT	20030317DDY	NEW	RADIO ASSIST MINISTRY, INC.	D	JACKSONVILLE BEACH	FL	APP	0.027	91.6	238	1	41.8	0
630077	139252	BNPFT	20030310BAA	NEW	CALVARY CHAPEL OF TWIN FALLS, INC.	D	JACKSONVILLE	FL	APP	0.019	106	238	1	43.9	0
644861	151770	BNPFT	20030317DEI	NEW	RADIO ASSIST MINISTRY, INC.	D	JACKSONVILLE BEACH	FL	APP	0.08	53.9	239	0	44.5	0
631557	140271	BNPFT	20030317ACU	NEW	BIBLE BROADCASTING NETWORK, INC.	D	BRUNSWICK	GA	APP	0.055	65	239	0	60.1	0
633451	141780	BNPFT	20030313AIK	NEW	LIGHTHOUSE CHRISTIAN BROADCASTING CORP.	D	BRUNSWICK	GA	APP	0.25	31	239	0	60.5	0
646132	152922	BNPFT	20030317AYL	NEW	RADIO TRAINING NETWORK, INC.	D	BRUNSWICK	GA	APP	0.08	56	240	1	61.5	0
644869	151778	BNPFT	20030317DEY	NEW	RADIO ASSIST MINISTRY, INC.	D	LAKESIDE	FL	APP	0.01	199.6	238	1	72.4	0
644877	151785	BNPFT	20030317DFB	NEW	RADIO ASSIST MINISTRY, INC.	D	LAKESIDE	FL	APP	0.013	199.6	239	0	72.4	0



Facility id: 151739;
Area of Interference;

