

Non-Interference Compliance

Regarding Facility id 148230

Channel 235

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.

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
1216737	BPH20071113AJ0	WJTT	80	79.9
1324994	BLH20090731AEV	WPLZ	69.2	69.1
272634	BLH19980814KD	WJTT	68.2	68.2
Minimum F(50,50) Contour of Adjacent Station within Proposed Translator's Standard Interfering Contour				68.2

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 **68.2 dBμ**, this makes the proposed translator's worst-case interfering contour **108.2 dBμ**. By the free-space equation, this contour is calculated to extend a maximum of **193 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: SCA
Antenna Model: YA7-FML(V)
CORAGL: 14 m
Maximum ERP: 0.05 kW
Interfering Contour: 108.2 dBμ
Max Int. Contour Distance: 193 m

Adjacent Channel Study **For Station W235AO, Facility_id: 148230**

Co-channel through third adjacent:

Application_id	Facility_id	Prefix	ARN	Call	Licensee	Class	City	State	Status	ERP	RCAMSL	Channel	Adj	Dist	Overlap
272634	6752	BLH	19980814KD	WJTT	BREWER BROADCASTING OF CHATTANOOGA, IN	A	RED BANK	TN	LIC	4.7	460	232	3	25.8	0.0719
1216737	6752	BPH	20071113AJ0	WJTT	BREWER BROADCASTING OF CHATTANOOGA, IN	C3	RED BANK	TN	CP	19.5	455	232	3	25.8	0.0719
1324994	66956	BLH	20090731AEV	WPLZ	J. L. BREWER BROADCASTING OF CLEVELAND, L	C3	OOLTEWAH	TN	LIC	3.4	649	237	2	29.7	0.0719
1068341	66956	BXMLH	20001213ACB	WPLZ	J.L. BREWER BROADCASTING OF CLEVELAND, LI	A	CLEVELAND	TN	LIC	0.11	390	237	2	14.2	0
1325801	66956	BXPH	20090731AES	WPLZ	J. L. BREWER BROADCASTING OF CLEVELAND, L	C3	OOLTEWAH	TN	CP	0.285	442	237	2	25.8	0
1044867	124182	BLL	20050201BIT	WAAK-LP	BOYNTON EDUCATIONAL RADIO, INC.	L1	BOYNTON	GA	LIC	0	299.8	234	1	31.8	0
262105	84026	BLFT	19980205TK	W236AJ	IMMANUEL BROADCASTING NETWORK	D	DALTON	GA	LIC	0.01	572	236	1	47.6	0
235257	28338	BLFT	19961107TG	W234AG	IMMANUEL BROADCASTING NETWORK	D	CHATSWORTH	GA	LIC	0.01	865	234	1	52.8	0
640178	147503	BNPFT	20030317DSK	NEW	EDGEWATER BROADCASTING, INC.	D	LA FAYETTE	GA	APP	0.01	389.1	237	2	57.2	0
977840	135232	BLL	20040212ACG	WJCR-LP	JASPER CHRIST-CENTERED RADIO, INC	L1	JASPER	TN	LIC	0	228.4	235	0	57.3	0
1327260	148088	BLFT	20090811ABS	W234BK	SEQUACHEE CHRISTIAN MINISTRIES	D	COALMONT	TN	LIC	0.045	657	234	1	67.1	0
1108113	156098	BLFT	20060112AED	W235AZ	CHARLES H LYNN	D	SWEETWATER	TN	LIC	0.027	374	235	0	71.3	0
1350250	148088	BPFT	20091216AFA	W234BK	SEQUACHEE CHRISTIAN MINISTRIES	D	SEWANEE	TN	APP	0.01	630	236	1	79.9	0
1349246	148088	BPFT	20091216AFA	W234BK	SEQUACHEE CHRISTIAN MINISTRIES	D	SEWANEE	TN	APP	0.01	609	236	1	81	0
1192431	135624	BLL	20070625ABM	WTRL-LP	TALK OF YOUR LIFE RADIO OF VONORE	L1	VONORE	TN	LIC	0	335	236	1	82.2	0
1042586	144182	BLFT	20050125AAA	W232BD	BLAIRSVILLE MUSIC, INC.	D	BLAIRSVILLE	GA	LIC	0.01	760	232	3	101.4	0
1202320	170937	BLH	20070830ADE	WACF	WOLF CREEK BROADCASTING, INC.	A	YOUNG HARRIS	GA	LIC	0.2	1123	236	1	102.3	0
146544	13819	BLH	19900329KA	WGSQ	CLEAR CHANNEL BROADCASTING LICENSES, INC	C	COOKEVILLE	TN	LIC	100	822	234	1	116.6	0

