

Non-Interference Compliance

Regarding Facility id 151894

Channel 255

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 an aerial photo of the vicinity surrounding the proposed translator's tower site.

Note: The only structures within the zone of predicted interference are unoccupied buildings so 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.

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
1096023	BLH20051104ACY	WHHD	94.8	93.9
1636061	BMLH20140507ADV	WKXC-FM	78.7	78.7
Minimum F(50,50) Contour of Adjacent Station within Proposed Translator's Standard Interfering Contour				78.7

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 **78.7 dBμ**, this makes the proposed translator's worst-case interfering contour **118.7 dBμ**. By the free-space equation, this contour is calculated to extend a maximum of **39.1 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").

Note: The only structures within the zone of predicted interference are unoccupied buildings so 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:	NIC
Antenna Model:	BKG77
CORAGL:	39 m
Maximum ERP:	0.023 kW
Interfering Contour:	118.7 dBμ
Max Int. Contour Distance:	39.1 m

Adjacent Channel Study **For Station W255AS, Facility_id: 151894**

Co-channel through third adjacent:

App_id	Fac_id	File_Number	Call	Licensee	Class	City	State	Status	ERP	RCAMSL	Char	Adj	Dist	Overlap
1096023	24148	BLH-20051104ACY	WHHD	BEASLEY MEDIA GROUP, LLC	C3	CLEARWATER	SC	LIC	11.5	242.8	252	3	6	0.1373
1636061	24147	BMLH-20140507ADV	WKXC-FM	BEASLEY MEDIA GROUP, LLC	C2	AIKEN	SC	LIC	24	341	258	3	21.5	0.1373
1533491	171006	BPH-20130415ABQ	WLCZ	GLORY COMMUNICATIONS, INC.	C3	LINCOLNTON	GA	CP	25	209.4	254	1	48.9	0
1502547	171006	BLH-20120604ADO	WLCZ	GLORY COMMUNICATIONS, INC.	A	LINCOLNTON	GA	LIC	0.48	259.1	254	1	54.1	0
1356411	184539	BNPED-20100219AB	WHBJ	BARNWELL COMMUNITY RADIO	C3	BARNWELL	SC	CP	25	177	256	1	68.2	0
167840	54879	BLH-19911211KF	WBAW-FM	BULLIE BROADCASTING CORPO	C3	BARNWELL	SC	LIC	25	161	256	1	68.5	0
1185824	156940	BLFT-20070514ABD	W252BH	RADIO TRAINING NETWORK, INC	D	WASHINGTON	GA	LIC	0.027	193	252	3	69.4	0
1548668	156229	BNPFT-20130328AQI	W253BL	TABERNACLE BAPTIST COLLEGI	D	GREENWOOD	SC	CP	0.027	228	253	2	80.4	0
1086057	37200	BLH-20051110AAA	WOMG	RADIO LICENSE HOLDING CBC, I	A	LEXINGTON	SC	LIC	6	212	253	2	88.6	0
1598654	54879	BPH-20130412AAF	WBAW-FM	BULLIE BROADCASTING CORPO	C1	PEMBROKE	GA	CP	100	281.3	257	2	151.2	0



