

Non-Interference Compliance

Regarding Facility id 142658

Channel 212

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: There are no occupied buildings or major roads within the zone of predicted interference 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
706684	BLED20031104AAN	WAYR-FM	115.4	100
Minimum F(50,50) Contour of Adjacent Station within Proposed Translator's Standard Interfering Contour				100

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 **100 dBμ**, this makes the proposed translator's worst-case interfering contour **140 dBμ**. By the free-space equation, this contour is calculated to extend a maximum of **2.5 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: There are no occupied buildings or major roads within the zone of predicted interference 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:	TEL
Antenna Model:	ANT90D
CORAGL:	116 m
Maximum ERP:	0.013 kW
Interfering Contour:	140 dBμ
Max Int. Contour Distance:	2.5 m

Adjacent Channel Study
For Station W212BY, Facility_id: 142658

Co-channel through third adjacent:

App_id	Fac_id	File Number	Call	Licensee	Class	City	State	Status	ERP	RCMSL	Chan	Adj	Dist	Overlap
706684	77585	BLED-20031104AAN	WAYR-FM	GOOD TIDINGS TRUST, INC	C3	BRUNSWICK	GA	LIC	14	103	214	2	1.2	0.0776
668985	89988	BLED-20020305AAO	WTLD	RESURRECTION HOUSE MINISTRIES, INC.	A	JESUP	GA	LIC	6	78	213	1	62.8	0
513110	93578	BLFT-20000706AGB	W214BG	FAMILY WORSHIP CENTER CHURCH, INC.	D	WAYCROSS	GA	LIC	0.055	91	214	2	83.6	0
1447286	73125	BMI FD-20110930ARR	WJCT-FM	WJCT, INC	C1	JACKSONVILLE	FL	LIC	98	256	210	2	101.3	0
269876	59247	BLED-19980616KC	WHGJ	SAVANNAH STATE UNIVERSITY	A	SAVANNAH	GA	LIC	6	75	212	0	101.3	0
103663	31936	BLED-19870715KA	WKTZ-FM	JONES COLLEGE	C2	JACKSONVILLE	FL	LIC	50	148	215	3	101.7	0
1220440	23923	BMLED-20080131AJH	WXVS	GEORGIA PUBLIC TELECOMMUNICATIONS COMMIS	C1	WAYCROSS	GA	LIC	79	329	211	1	104	0

Prepared by Gene Wisniewski
September 18, 2013



