

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.

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	83.8	83.8
1636061	BMLH20140507ADV	WKXC-FM	82.6	82.6
Minimum F(50,50) Contour of Adjacent Station within Proposed Translator's Standard Interfering Contour				82.6

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 **82.6 dBμ**, this makes the proposed translator's worst-case interfering contour **122.6 dBμ**. By the free-space equation, this contour is calculated to extend a maximum of **55.8 m** from the transmit antenna.

The maximum horizontal plane of the interfering contour was calculated for 120 radials and plotted on the pertinent portion of a USGS quadrangle (page 4 of this exhibit). However, since the area of interference extends a maximum of **55.8 m** from the transmit antenna and the transmit antenna is **76 m** above tower ground level (TGL), the area of interference will be at least **20.2 m** above TGL at the lowest point.

Note: The tallest building within the zone of predicted interference is less than 20ft (6.1m) in height. This proposal provides a minimum of 20.2m (66.3ft) ground clearance so 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:	TEL
Antenna Model:	ANT90D
CORAGL:	76 m
Maximum ERP:	0.115 kW
Interfering Contour:	122.6 dBμ
Max Int. Contour Distance:	55.8 m
Min Ground Clearance:	20.2 m

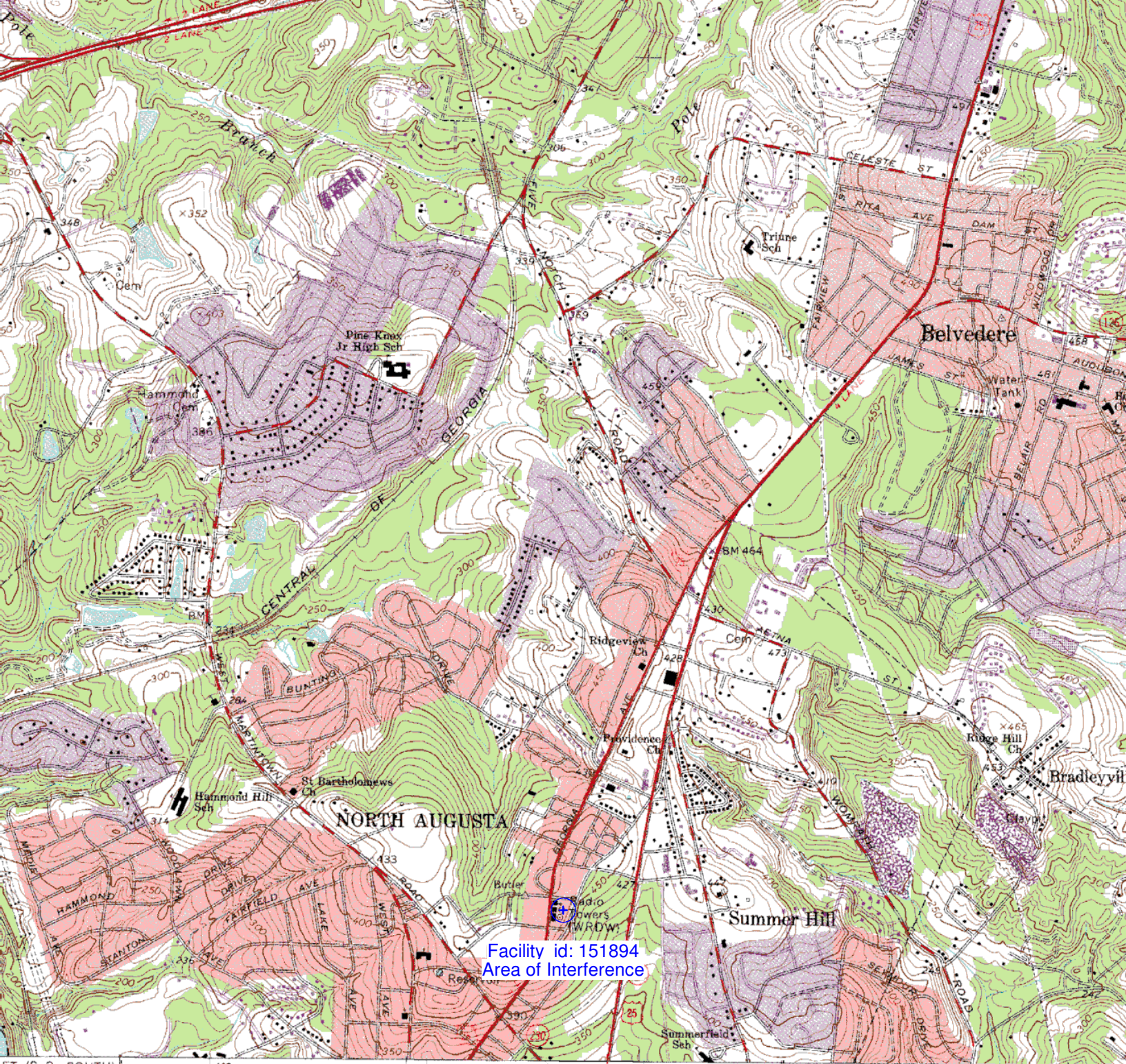
Adjacent Channel Study **For Station W255AS, Facility_id: 151894**

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 LICENS	C3	CLEARWATER	SC	LIC	11.5	242.8	252	3	11	0.6862
1636061	24147	BMLH-20140507ADV	WKXC-FM	BEASLEY MEDIA GROUP LICENS	C2	AIKEN	SC	LIC	24	341	258	3	15.8	0.6862
1729403	171006	BPH-20160526ABG	WLCZ	GLORY COMMUNICATIONS, INC.	C3	LINCOLNTON	GA	CP	19.5	225	254	1	55.8	0
1502547	171006	BLH-20120604ADO	WLCZ	GLORY COMMUNICATIONS, INC.	A	LINCOLNTON	GA	LIC	0.48	259.1	254	1	58.1	0
1584929	184539	BLED-20131031AAM	WHBJ	AUGUSTA RADIO FELLOWSHIP II	C3	BARNWELL	SC	LIC	25	177	256	1	62	0
1185824	156940	BLFT-20070514ABD	W252BH	LARGE TIME RADIO NETWORK L	D	WASHINGTON	GA	LIC	0.027	193	252	3	74.4	0
1791041	156229	BLFT-20180829AAN	W253BL	FMX LLC	D	GREENWOOD	SC	LIC	0.25	289	253	2	80.1	0
1086057	37200	BLH-20051110AAA	WOMG	RADIO LICENSE HOLDING CBC, I	A	LEXINGTON	SC	LIC	6	212	253	2	81	0
1779847	194785	BLL-20180301AAB	WXNW-LP	FRIENDS OF INDEPENDENT PUB	L1	SEVEN OAKS	SC	LIC	0	142.4	256	1	96.8	0
1181619	151860	BLFT-20070413AFL	W254AR	RADIO STATION WSNT, INC.	D	SANDERSVILLE	GA	LIC	0.038	183	254	1	97.2	0
1745968	142008	BLFT-20161201AFB	W254CE	MILLER COMMUNICATIONS, INC.	D	ORANGEBURG	SC	LIC	0.25	160	254	1	107.6	0
1773193	201491	BNPFT-20171212AAI	W255DG	NORSAN BROADCASTING WCEC	D	COLUMBIA	SC	CP	0.01	275	255	0	109.4	0
281177	67680	BLH-19990201KB	WYKZ	CAPSTAR TX, LLC	C1	BEAUFORT	SC	LIC	99	219	254	1	162.1	0
1728070	66400	BLH-20160511AAE	WSPA-FM	ENTERCOM LICENSE, LLC	C	SPARTANBURG	SC	LIC	100	1016	255	0	187.4	0

Intermediate Frequencies (53 and 54 channels difference):

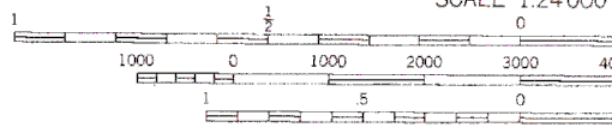
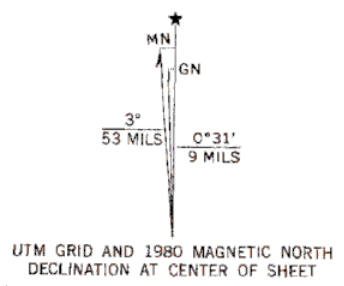
App_id	Fac_id	File_Number	Call	Licensee	Class	City	State	Status	ERP	RCAMSL	Channel	Adj	Dist	Clr
1809629	54859	BMLED-20190903AA'	WAFJ	RADIO TRAINING NETWORK, INC	C2	BELVEDERE	SC	LIC	4.5	497	202	53	15.5	0.5



ET (S. C., SOUTH) 409 560 000 FEET (GA.) 57'30" AUGUSTA, GA. 5 MI. WAYNESBORO, GA. 30 MI. (AUGUSTA EAST) 4650 IV NW

ublished by the Geological Survey
and South Carolina Geodetic Survey
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ch only landmark buildings are shown

Revisions shown in purple compiled by the Geological
Survey from aerial photographs taken 1977 and other source data
This information not field checked. Map edited 1980
Purple tint indicates extension of urban areas



CONTOUR INTERVAL 10
NATIONAL GEODETIC VERTICAL DA

THIS MAP COMPLIES WITH NATIONAL MAP
FOR SALE BY U. S. GEOLOGICAL SURVEY,
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYM

