

Non-Interference Compliance

Regarding Facility id 148352

Channel 268

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
1290723	BLH20090130AAJ	WALX	79.1	79.1
Minimum F(50,50) Contour of Adjacent Station within Proposed Translator's Standard Interfering Contour				79.1

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 **79.1 dBμ**, this makes the proposed translator's worst-case interfering contour **119.1 dBμ**. By the free-space equation, this contour is calculated to extend a maximum of **123 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 communications buildings 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:	SHI
Antenna Model:	6832-3(.66)
CORAGL:	85 m
Maximum ERP:	0.25 kW
Interfering Contour:	119.1 dBμ
Max Int. Contour Distance:	123 m

Adjacent Channel Study **For Station W268BQ, Facility_id: 148352**

Co-channel through third adjacent:

App_id	Fac_id	File_Number	Call	Licensee	Class	City	State	Status	ERP	RCAMSL	Char	Adj	Dist	Overlap
1290723	950	BLH-20090130AAJ	WALX	SCOTT COMMUNICATIONS, INC.	C2	ORRVILLE	AL	LIC	50	202	265	3	20.9	1.4918
1781692	201413	BNPFT-20180327AB\	NEW	JAMES DELOACH	D	CENTREVILLE	AL	APP	0.25	134	268	0	55.7	0
1771568	201413	BNPFT-20170731AC\	NEW	JAMES DELOACH	D	CENTREVILLE	AL	APP	0.25	134	268	0	55.7	0
1548811	150894	BPFT-20130328ALP	W268BH	TAYLOR BROADCASTING, LLC	D	MONTGOMERY	AL	CP	0.099	180	268	0	75.3	0
1354233	150894	BLFT-20100122AAA	W268BH	TAYLOR BROADCASTING, LLC	D	MONTGOMERY	AL	LIC	0.013	180	268	0	75.3	0
1174980	66910	BMLH-20070402ADP	WHHY-FM	CUMULUS LICENSING LLC	C0	MONTGOMERY	AL	LIC	100	397	270	2	80.9	0
1780899	200473	BNPFT-20180326AAI	NEW	TTI, INC.	D	TUSCALOOSA	AL	APP	0.099	253	267	1	87.8	0
1750162	148566	BLFT-20170201ACZ	W265CG	TOWNSQUARE MEDIA TUSCALO	D	TUSCALOOSA	AL	LIC	0.25	246	265	3	87.8	0
1771159	148566	BPFT-20171113ABU	W265CG	TOWNSQUARE MEDIA TUSCALO	D	TUSCALOOSA	AL	CP	0.25	267	265	3	87.8	0
1641874	148570	BLFT-20140623ABH	W271AM	JRD, INC.	D	TUSCALOOSA	AL	LIC	0.099	266	271	3	87.8	0
1691432	148570	BPFT-20150930AGH	W271AM	JRD, INC.	D	TUSCALOOSA	AL	CP	0.099	268	271	3	87.8	0
1761602	200473	BNPFT-20170802AB\	NEW	TTI, INC.	D	TUSCALOOSA	AL	APP	0.099	267	267	1	87.8	0
1102133	41641	BLED-20051201BVO	WQEM	GLEN IRIS BAPTIST SCHOOL	A	COLUMBIANA	AL	LIC	1.8	365	268	0	89.9	0
1720287	140574	BMPFT-20160129AH\	W267CA	CAPSTAR TX, LLC, AS DEBTOR II	D	TUSCALOOSA	AL	CP MOD	0.099	166	267	1	91.1	0
1783418	201723	BMPFT-20180420AAI	W265DV	POWERS BROADCASTING COMF	D	SYLACAUGA	AL	CP MOD	0.25	311	265	3	105.3	0
1525537	152415	BLFT-20130102ABJ	W266BJ	HUGHEY COMMUNICATIONS, INC	D	TALLASSEE	AL	LIC	0.25	144	266	2	109	0
597108	67577	BLH-20020308AAT	WQRR	TOWNSQUARE MEDIA TUSCALO	C2	REFORM	AL	LIC	22.5	309	269	1	112.2	0
1561527	148321	BLFT-20130702ABK	W271BN	EDUCATIONAL MEDIA FOUNDAT	D	BIRMINGHAM	AL	LIC	0.085	537	271	3	114.9	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
172244	727	BLED-19920401KA	WVAS	ALABAMA STATE UNIVERSITY (A	C1	MONTGOMERY	AL	LIC	80	163	214	54	72.3	50.3
1407841	4242	BLED-20101122AJA	WVUA-FM	BOARD OF TRUSTEES, UNIVERS	A	TUSCALOOSA	AL	LIC	0.22	133	214	54	94.1	84.1

30 X 60 MINUTE SERIES (TOPOGRAPHIC)



