

Non-Interference Compliance

Regarding Facility id 148321

Channel 270

Description of Exhibit 12 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 a high resolution aerial photo of the vicinity surrounding the proposed translator's tower site provided by the U.S. Geological Survey's National Aerial Photography Program. It has been included to provide clarification of the nature of the buildings in the vicinity.

Note: The quadrangle and aerial photo indicate the presence of county roads in the area of interference. It is apparent that these are not major roads, e.g. interstate highways, as described in the Living Way decision. The zone of predicted interference extends 17.4m from the proposed transmit site. The nearest buildings are 524m away to the north east on New Blossburg Road, 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
1250130	BLH20080613AAJ	WDXB	87.9	87.9
624904	BLH20030207AAP	WDXB	87.9	87.9
Minimum F(50,50) Contour of Adjacent Station within Proposed Translator's Standard Interfering Contour				87.9

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 **87.9 dBμ**, this makes the proposed translator's worst-case interfering contour **127.9 dBμ**. By the free-space equation, this contour is calculated to extend a maximum of **17.4 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 quadrangle and aerial photo indicate the presence of county roads in the area of interference. It is apparent that these are not major roads, e.g. interstate highways, as described in the Living Way decision. The zone of predicted interference extends 17.4m from the proposed transmit site. The nearest buildings are 524m away to the north east on New Blossburg Road, 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: SCA
Antenna Model: FMV-1
CORAGL: 11 m
Maximum ERP: 0.038 kW
Interfering Contour: 127.9 dBμ
Max Int. Contour Distance: 17.4 m

Adjacent Channel Study **For Station W270BW, Facility_id: 148321**

Co-channel through third adjacent:

Application_id	Facility_id	Prefix	ARN	Call	Licensee	Class	City	State	Status	ERP	RCAMSL	Channel	Adj	Dist	Overlap
1250130	2114	BLH	20080613AAJ	WDXB	CAPSTAR TX LIMITED PARTNERSHIP	C1	PELHAM	AL	LIC	90	494	273	3	20.6	0.2268
624904	2114	BLH	20030207AAP	WDXB	CAPSTAR TX LIMITED PARTNERSHIP	C1	JASPER	AL	LIC	90	494	273	3	20.6	0.2268
1065257	2114	BXLH	20050527BJK	WDXB	CAPSTAR TX LIMITED PARTNERSHIP	C1	JASPER	AL	LIC	32	402	273	3	20.6	0.2268
1332546	150814	BLFT	20090904ADA	W268BM	EDGEWATER BROADCASTING, INC.	D	JASPER	AL	LIC	0.25	241	268	2	41.5	0
1328573	148570	BPFT	20090817AAO	W271AM	JRD, INC.	D	TUSCALOOSA	AL	CP	0.25	754	271	1	44.4	0
1102133	41641	BLED	20051201BVO	WQEM	GLEN IRIS BAPTIST SCHOOL	A	COLUMBIANA	AL	LIC	1.8	365	268	2	48.5	0
641114	148301	BNPFT	20030317CW/	NEW	RADIO ASSIST MINISTRY, INC.	D	ONEONTA	AL	APP	0.01	603	269	1	53.7	0
641126	148313	BNPFT	20030317CQA	NEW	RADIO ASSIST MINISTRY, INC.	D	CULLMAN	AL	APP	0.01	395.8	268	2	63	0
1245725	148570	BLFT	20080509AAQ	W271AM	JRD, INC.	D	TUSCALOOSA	AL	LIC	0.099	267	271	1	73.1	0
597108	67577	BLH	20020308AAT	WBEI	RADIO SOUTH, INC,	C2	REFORM	AL	LIC	22.5	309	269	1	93.8	0
1125755	44024	BMLH	20060413ACH	WDRM	CAPSTAR TX LIMITED PARTNERSHIP	C1	DECATUR	AL	LIC	100	532	271	1	133.9	0
1071353	44024	BXLH	20050707ADH	WDRM	CAPSTAR TX LIMITED PARTNERSHIP	C1	DECATUR	AL	LIC	30	501	271	1	133.9	0



