

Non-Interference Compliance

Regarding Facility id 154860

Channel 256

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 communications 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
1020261	BLH20041018ACH	WHOP-FM	71	71
Minimum F(50,50) Contour of Adjacent Station within Proposed Translator's Standard Interfering Contour				71

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 **71 dBμ**, this makes the proposed translator's worst-case interfering contour **111 dBμ**. By the free-space equation, this contour is calculated to extend a maximum of **71.3 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 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 @ 350°
CORAGL:	102 m
Maximum ERP:	0.013 kW
Interfering Contour:	111 dBμ
Max Int. Contour Distance:	71.3 m

Adjacent Channel Study **For Station NEW, Facility_id: 154860**

Co-channel through third adjacent:

App_id	Fac_id	File_Number	Call	Licensee	Class	City	State	Status	ERP	RCMSL	Chan	Adj	Dist	Overlap
1020261	27633	BLH-20041018ACH	WHOP-FM	HOP BROADCASTING, INC.	C1	HOPKINSVILLE	KY	LIC	100	366.1	254	2	41.5	0.0469
203726	63446	BLFT-19941103TA	W258AD	COMMUNITY BROADCASTING, INC.	D	CLARKSVILLE	TN	LIC	0.02	247	258	2	8.6	0
633391	141727	BNPFT-20030317HOK	NEW	THOMAS MACH D/B/A DICKSON OMEGA RADIO	D	DICKSON	TN	APP	0.055	233	256	0	33.6	0
929311	52225	BLFT-20040120ABI	W255AP	PENNYRILE CHRISTIAN COMMUNITY, INC.	D	DICKSON	TN	LIC	0.023	273	255	1	52.9	0
1564248	88416	BNPFT-19970829TG	970829TG	GREAT SOUTHERN BROADCASTING COMPANY, INC	D	NASHVILLE	TN	APP	0.08	194	254	2	60	0
1561477	142519	BNPFT-20030317BPX	NEW	CARON BROADCASTING, INC.	D	NASHVILLE	TN	APP	0.011	316	256	0	71.4	0
1082067	166220	BSTA-20050803ADU	WCRT-FM1	BOTT COMMUNICATIONS, INC.	D	DONELSON	TN	STA	0.075	241	254	2	73.8	0
133140	25032	BLFT-19890915TB	W257AR	GREAT SOUTHERN BROADCASTING COMPANY	D	DONELSON	TN	LIC	0.003	245	257	1	76.3	0
1556637	85723	BPFT-20130524BBO	W258AJ	BOARD OF REGENTS, MURRAY STATE UNIVERSIT	D	MURRAY	KY	CP	0.25	213	258	2	87.1	0
1377319	170956	BLH-20100629ANS	WWKN	NEWBERRY BROADCASTING, INC.	A	MORGANTOWN	KY	LIC	0.65	219	256	0	91.3	0
1411523	170956	BPH-20100301ACX	WWKN	NEWBERRY BROADCASTING, INC.	A	MORGANTOWN	KY	CP	6	197	256	0	91.4	0
1392516	60148	BPH-20100722HYD	WVLE	SKYTOWER COMMUNICATIONS GROUP, LLC	A	SCOTTSVILLE	KY	CP	3.2	300.8	257	1	96.9	0
1485665	4103	BPH-20111118CPD	WANT	BAY-POINTE BROADCASTING, INC.	A	LEBANON	TN	CP	3.9	313.9	255	1	99.5	0
192701	4103	BLH-19931206KA	WANT	BAY-POINTE BROADCASTING, INC.	A	LEBANON	TN	LIC	5	287	255	1	105.6	0
227306	60148	BLH-19960603KC	WVLE	SKYTOWER COMMUNICATIONS GROUP, LLC	A	SCOTTSVILLE	KY	LIC	6	316	257	1	105.8	0
1356308	53944	BLH-20100217AAC	WCBL-FM	FREELAND BROADCASTING CO., INC.	C3	GRAND RIVERS	KY	LIC	16	243	256	0	107.2	0
1243953	31476	BLH-20080428AAL	WWTN	CUMULUS LICENSING LLC	C0	HENDERSONVILLE	TN	LIC	100	604	259	3	113.4	0
119689	6871	BLH-19881025KC	WKDQ	TOWNSQUARE MEDIA OF EVANSVILLE/OWENSBORO	C0	HENDERSON	KY	LIC	98	416	258	2	144.7	0



