

Non-Interference Compliance

Regarding Facility id 64266

Channel 203

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
1071090	BLED20050705ABJ	WAYD	119	118.7
1175559	BMLD20070507AFC	WKYU-FM	88	87.7

Minimum F(50,50) Contour of Adjacent Station within
Proposed Translator's Standard Interfering Contour **87.7**

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 **87.7 dBμ**, this makes the proposed translator's worst-case interfering contour **127.7 dBμ**. By the free-space equation, this contour is calculated to extend a maximum of **10.4 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"). Hence, 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: NIC
Antenna Model: BKG77
CORAGL: 46 m
Maximum ERP: 0.013 kW
Interfering Contour: 127.7 dBμ
Max Int. Contour Distance: 10.4 m

Adjacent Channel Study
For Station W203BI, Facility_id: 64266

Co-channel through third adjacent:

Application_id	Facility_id	Prefix	ARN	Call	Licensee	Class	City	State	Status	ERP	RCAMSL	Channel	Adj	Dist	Overlap
1071090	93017	BLEP	20050705ABJ	WAYD	WAY MEDIA, INC.	A	AUBURN	KY	LIC	1	290	201	2	0	0.0776
1267242	71856	BXLED	20080926AAI	WKYU-FM	WESTERN KENTUCKY UNIVERSITY	C1	BOWLING GREEN	KY	LIC	0.98	356	205	2	16.4	0.0776
1175559	71856	BMLED	20070507AFC	WKYU-FM	WESTERN KENTUCKY UNIVERSITY	C1	BOWLING GREEN	KY	LIC	98	383	205	2	16.4	0.0776
1486278	147296	BPFT	20120201AGS	W201DD	WAY-FM MEDIA , INC.	D	CENTRAL CITY	KY	CP	0.027	194	201	2	61.9	0
1180385	147296	BLFT	20070313AAK	W201DD	WAY-FM MEDIA , INC.	D	MOREHEAD	KY	LIC	0.038	170	201	2	62.4	0
660300	70470	BLEP	20030508ABK	WVCP	VOLUNTEER STATE COMMUNITY COLLEGE	A	GALLATIN	TN	LIC	1	248	203	0	62.4	0
615694	91596	BLEP	20021023AAT	WSGP	SOMERSET EDUCATIONAL BROADCASTING FC	C3	GLASGOW	KY	LIC	13	361	202	1	77.7	0
1434818	176028	BLEP	20110725AAY	WRSN	RISEN RADIO, INC.	A	LEBANON	TN	LIC	0.185	263.4	201	2	78.5	0
1411582	176940	BNPED	20071022BUZ	NEW	CALIFORNIA ASSOCIATION FOR RESEARCH AN	A	UPTON	KY	CP	2.6	359.8	201	2	81.3	0
1086239	165451	BNPED	20071012ASV	NEW	BOWLING GREEN COMMUNITY BROADCASTING	A	NORTONVILLE	KY	CP	0.6	233	201	2	83.7	0
1131640	67633	BXLED	20060623AAK	WECV	COMMUNITY BROADCASTING, INC.	A	NASHVILLE	TN	LIC	1	202.5	206	3	92.8	0
272170	67633	BLEP	19980805KB	WECV	COMMUNITY BROADCASTING, INC.	A	NASHVILLE	TN	LIC	1.4	225	206	3	93	0
1444946	67633	BLEP	20110921ADQ	WECV	COMMUNITY BROADCASTING, INC.	C3	NASHVILLE	TN	LIC	22	223.8	206	3	93	0
706648	83853	BLEP	20031020ABN	WAYQ	WAY MEDIA, INC.	C2	CLARKSVILLE	TN	LIC	14	416	202	1	100.4	0
1056283	67801	BLEP	20050407AQZ	WNIN-FM	WNIN TRI-STATE PUBLIC MEDIA, INC.	B	EVANSVILLE	IN	LIC	17	380	202	1	130.5	0
988495	67801	BXLED	20040412ABR	WNIN-FM	WNIN TRI-STATE PUBLIC MEDIA, INC.	B	EVANSVILLE	IN	LIC	21.5	349	202	1	130.5	0







Google earth

feet
meters

