

**Non-Interference Compliance for
Hollywood Brothers Helping Others, Inc.
Regarding Facility ID 194181 Channel 224**

Description of Exhibit 11 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. § 73.807. The applicant acknowledges that it will comply with 47 C.F.R. § 73.827(a) in regards to resolving any interference that may occur. The applicant acknowledges further acknowledges that it will operate 47 C.F.R. § 73.811 and all other applicable FCC rules and regulations.

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), applicable sections of Part 73 that apply to LPFMs and the instructions for this form 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 contains a tabulation of the vertical radiation pattern of the proposed antenna and the minimum ground clearance of the interfering contour based on this pattern.

Page 4 includes tabulations of the vertical radiation pattern for the proposed antenna provided by the antenna manufacturer.

Page 5 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 dB μ 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.

Page 6 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. The area of interference was calculated using the free space equation and 120 radials.

Page 7 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 vicinity.

Compliance with 47 C.F.R. § 74.1204(d) and Demonstration of no LPFM Interference to Second Adjacent Channels - Waiver

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.

File Number	Callsign	Contour at Tower	Min. Contour
1047799	WFEZ	85.45	84.94
1363934	WCMQ-FM	63.66	63.12

Minimum F(50,50) Contour of Adjacent Station within Proposed Translator's Standard Interfering Contour:
63.12 dBμ.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 **63.12 dBμ**, this makes the proposed translator's worst-case interfering contour **103.12 dBμ**. By the free-space equation, this contour is calculated to extend a maximum of **207.73 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 8 of this exhibit). However, the field strength of the proposed translator's antenna varies with angle of depression from horizontal. The antenna relative fields are tabulated on the following page at 5 degree increments, starting at 5 degrees below horizontal. Antenna relative field strength data was provided and certified by the manufacturer of the proposed antenna. Using a free-space calculation that neglects any loss due to reflection, the vertical ground clearance of the proposed translator's interference contour has been tabulated. As shown on the following page, the area of interference clears the ground level by **10.13 m** from the tower. The applicant has taken into account USGS quadrangles and relevant aerial photography instating that no structures, except possibly tower support structures, puncture the area of interference. Hence, in accordance with 47 C.F.R. § 74.1204(d), and applicable sections of § 73.800 concerning LPFM rules and regulations, 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 47, C.F.R. § 73.807, applicable sections of § 73.800 concerning LPFM rules and regulations, and the LPFM rules concerning second adjacent channel waiver request.

Antenna Manufacturer: NICOM
Antenna Model: BKG77 1/2
CORAGL: 70 m
Maximum ERP: 0.018² kW
Interfering Contour: 103.12 dBμ
Max Int. Contour Distance: 207.73 m
Ground Clearance: 10.13 m

¹ This LPFM analysis was based on an ERP of 18 watts. Application BNPL-20131113BFJ is believed not to be grantable and has been excluded from analysis.

² Id 1

NICOM BKG77/2 Depression Propagation Elevations - Two Bay Half Wave Spaced

Depress Angle Below Horizontal	Antenna Relative Field	ERP (watts)	Distance to Interfering Contour (m)	Horizontal Distance to Contour from Antenna (m)	Vertical Clearance of Interfering Contour (m)
0	1	18.00	207.73	207.73	70.00
5	0.988	17.57	205.23	204.45	52.11
10	0.947	16.14	196.72	193.73	35.84
15	0.871	13.66	180.93	174.76	23.17
20	0.792	11.29	164.52	154.60	13.73
25	0.682	8.37	141.67	128.40	10.13
30	0.565	5.75	117.37	101.64	11.32
35	0.469	3.96	97.42	79.80	14.12
40	0.376	2.54	78.10	59.83	19.80
45	0.273	1.34	56.71	40.10	29.90
50	0.188	0.64	39.05	25.10	40.08
55	0.131	0.31	27.21	15.61	47.71
60	0.079	0.11	16.41	8.21	55.79
65	0.047	0.04	9.76	4.13	61.15
70	0.022	0.01	4.57	1.56	65.71
75	0.01	0.00	2.08	0.54	67.99
80	0.003	0.00	0.62	0.11	69.39
85	0.001	0.00	0.21	0.02	69.79
90	0	0.00	0.00	0.00	70.00

TX station:
 Frequency: 100.00 MHz

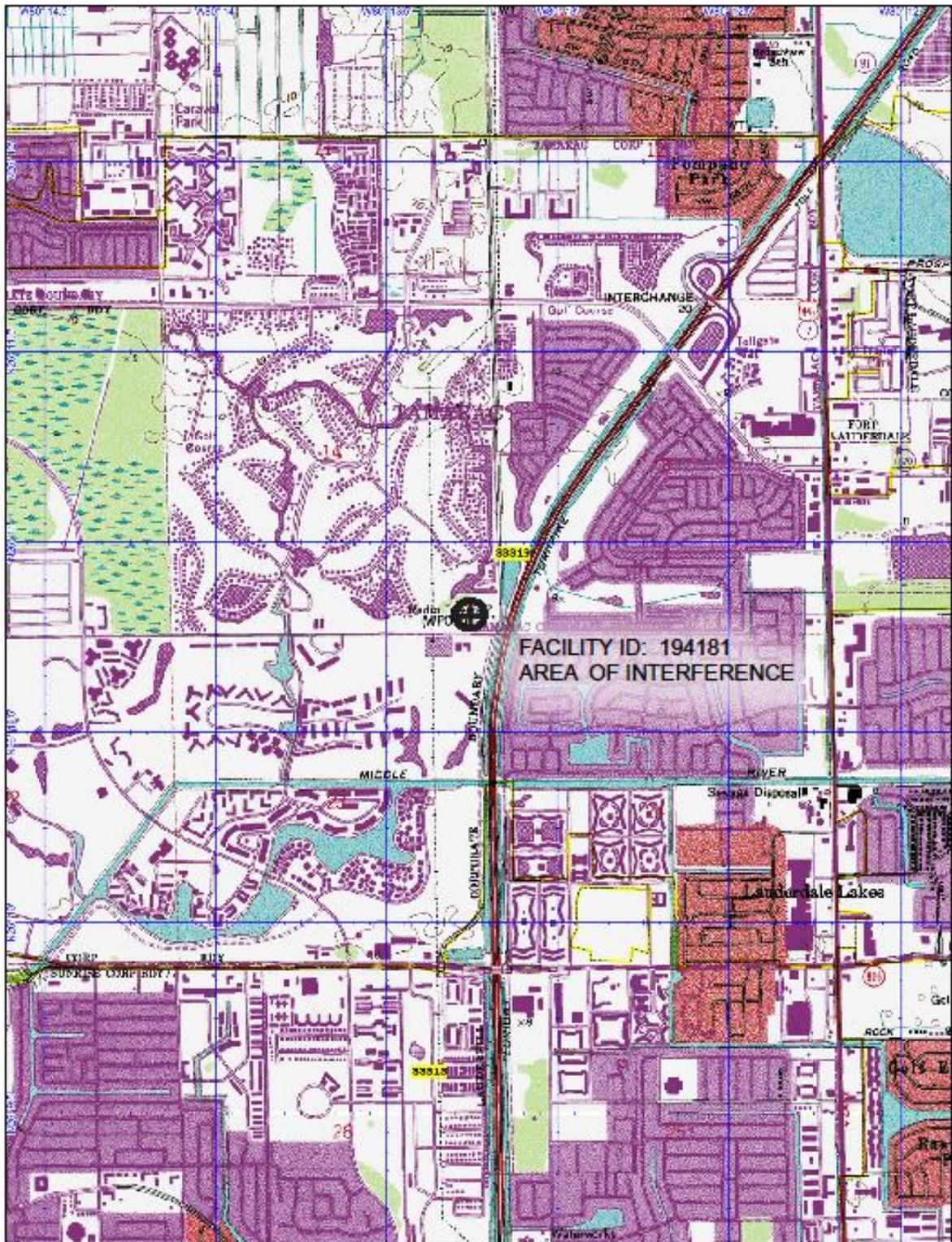
Site name: 2 BAY 1/2

Vertical diagram at an azimuth of 0° degrees

Dep (°)	Er (%)	ERP (W)	Dep (°)	Er (%)	ERP (W)	Dep (°)	Er (%)	ERP (W)
0.0	100.0	747.3	54.0	14.2	15.0	108.0	1.8	0.2
0.9	100.0	746.6	54.9	13.1	12.9	108.9	2.1	0.3
1.8	99.8	745.0	55.8	12.2	11.0	109.8	2.3	0.4
2.7	99.7	742.5	56.7	11.2	9.4	110.7	2.6	0.5
3.6	99.4	739.1	57.6	10.3	8.0	111.6	2.9	0.6
4.5	99.2	734.7	58.5	9.5	6.7	112.5	3.2	0.8
5.4	98.8	729.5	59.4	8.7	5.6	113.4	3.5	0.9
6.3	98.3	721.9	60.3	7.9	4.7	114.3	3.9	1.1
7.2	97.5	710.3	61.2	7.2	3.9	115.2	4.3	1.4
8.1	96.6	698.0	62.1	6.5	3.2	116.1	4.7	1.6
9.0	95.7	685.1	63.0	5.9	2.6	117.0	5.1	1.9
9.9	94.7	670.3	63.9	5.3	2.1	117.9	5.5	2.3
10.8	93.6	655.0	64.8	4.7	1.7	118.8	5.9	2.6
11.7	92.5	639.2	65.7	4.2	1.3	119.7	6.4	3.1
12.6	91.2	622.1	66.6	3.7	1.0	120.6	6.9	3.6
13.5	89.9	604.2	67.5	3.3	0.8	121.5	7.4	4.1
14.4	88.6	586.1	68.4	2.9	0.6	122.4	7.9	4.7
15.3	87.1	567.5	69.3	2.5	0.5	123.3	8.5	5.4
16.2	85.7	548.5	70.2	2.2	0.4	124.2	9.0	6.1
17.1	84.2	529.4	71.1	1.9	0.3	125.1	9.6	6.9
18.0	82.6	510.3	72.0	1.6	0.2	126.0	10.2	7.8
18.9	80.9	489.6	72.9	1.4	0.1	126.9	10.9	8.8
19.8	79.2	469.1	73.8	1.2	0.1	127.8	11.5	9.9
20.7	77.5	448.8	74.7	1.0	0.1	128.7	12.2	11.1
21.6	75.7	428.2	75.6	0.8	0.1	129.6	12.9	12.4
22.5	73.8	407.5	76.5	0.7	0.0	130.5	13.6	13.7
23.4	72.0	387.3	77.4	0.6	0.0	131.4	14.3	15.2
24.3	70.1	367.4	78.3	0.5	0.0	132.3	15.0	16.8
25.2	68.2	347.8	79.2	0.4	0.0	133.2	15.8	18.6
26.1	66.3	328.7	80.1	0.3	0.0	134.1	16.5	20.5
27.0	64.4	310.1	81.0	0.2	0.0	135.0	17.3	22.5
27.9	62.4	291.2	81.9	0.2	0.0	135.9	18.1	24.6
28.8	60.4	273.0	82.8	0.1	0.0	136.8	19.0	26.9
29.7	58.5	255.5	83.7	0.1	0.0	137.7	19.8	29.3
30.6	56.5	238.7	84.6	0.1	0.0	138.6	20.6	31.9
31.5	54.6	222.6	85.5	0.0	0.0	139.5	21.5	34.6
32.4	52.7	207.2	86.4	0.0	0.0	140.4	22.4	37.5
33.3	50.7	192.3	87.3	0.0	0.0	141.3	23.3	40.5
34.2	48.8	177.8	88.2	0.0	0.0	142.2	24.2	43.6
35.1	46.9	164.0	89.1	0.0	0.0	143.1	25.0	46.8
36.0	45.0	151.0	90.0	0.0	0.0	144.0	25.9	50.2
36.9	43.1	138.7	90.9	0.0	0.0	144.9	26.8	53.8
37.8	41.2	127.1	91.8	0.0	0.0	145.8	27.7	57.5
38.7	39.4	116.2	92.7	0.0	0.0	146.7	28.6	61.3
39.6	37.6	105.6	93.6	0.0	0.0	147.6	29.6	65.6
40.5	35.8	95.7	94.5	0.1	0.0	148.5	30.7	70.3
41.4	34.0	86.4	95.4	0.1	0.0	149.4	31.7	75.1
42.3	32.3	77.8	96.3	0.1	0.0	150.3	32.7	80.1
43.2	30.6	69.9	97.2	0.2	0.0	151.2	33.8	85.4
44.1	28.9	62.5	98.1	0.3	0.0	152.1	34.9	90.8
45.0	27.3	55.8	99.0	0.3	0.0	153.0	35.9	96.4
45.9	25.8	49.6	99.9	0.4	0.0	153.9	37.0	102.2
46.8	24.3	44.0	100.8	0.5	0.0	154.8	38.0	108.1
47.7	22.8	38.8	101.7	0.6	0.0	155.7	39.1	114.2
48.6	21.4	34.2	102.6	0.7	0.0	156.6	40.0	119.8
49.5	20.1	30.1	103.5	0.9	0.1	157.5	41.0	125.3
50.4	18.8	26.3	104.4	1.0	0.1	158.4	41.9	130.9
51.3	17.5	23.0	105.3	1.2	0.1	159.3	42.7	136.5
52.2	16.4	20.0	106.2	1.4	0.1	160.2	43.6	142.1
53.1	15.2	17.3	107.1	1.6	0.2	161.1	44.5	147.8

NicomUsa, Inc

Facility ID	File Number	Callsign	Licensee	Sts	City	St	Cls	ERP	AMSL	Ch	Adj	Dist
40408	BLH-20050224ABN BXLH-	WFEZ	COX RADIO, INC.	LIC	MIAMI	FL	C0	98000	308	226	2	23.54
40408	20041229AAX BXLH-	WFEZ	COX RADIO, INC. CLEAR CHANNEL BROADCASTING LICENSES, INC.	LIC	MIAMI	FL	C	67430	215	226	2	23.54
67193	20121220AAG	WMIB	CLEAR CHANNEL BROADCASTING LICENSES, INC.	LIC	FORT LAUDERDALE	FL	C	42000	283	278	54	21.62
67193	BLH-20050225AAP BXLH-	WMIB	CLEAR CHANNEL BROADCASTING LICENSES, INC.	LIC	FORT LAUDERDALE	FL	C	98000	308	278	54	23.54
67193	20041227ABA	WMIB WCMQ- FM	CLEAR CHANNEL BROADCASTING LICENSES, INC.	LIC	FORT LAUDERDALE	FL	C	57980	215	278	54	23.54
61640	BLH-20100420AIB BNPL-	FM	WCMQ LICENSING, INC.	LIC	HIALEAH	FL	C2	31000	191	222	-2	45.11
196997	20131113BUT BMPL-	WKHE-LP	ACTIONS FOR BETTER FUTURE TABERNACLE OF GLORY COMMUNITY CENTER INC	CP CP	NORTH MIAMI	FL	LP100	30	54	224	0	31.92
193449	20150416AAY BMPFT-	WYTG-LP		MOD	MIAMI	FL	LP100	100	30	224	0	33.17
158103	20140317AAT BNPL-	W225CA	CIRCUITWERKES, INC.	APP	WEST PALM BEACH	FL	D	245	340	223	-1	44.09
195408	20131113BIO	NEW	1MIAMI, INC.	CP	MIAMI	FL	LP100	100	29	224	0	41.11
20442	BLH-19931104KB BXLH-	WRLX WCMQ- FM	CAPSTAR TX LLC	LIC	WEST PALM BEACH	FL	C3	7200	154	221	-3	70.2
61640	20061011AAC	FM	WCMQ LICENSING, INC.	LIC	HIALEAH	FL	C2	1400	90.2	222	-2	49.56
20442	BLH-19970723KA BMLH-	WRLX	CAPSTAR TX LLC	LIC	WEST PALM BEACH	FL	C3	4100	112	221	-3	64.68
14376	20100113ABB BLFT-	WAVW	CAPSTAR TX LLC	LIC	STUART	FL	C2	50000	148	224	0	121.53
139076	20140630AAG BNPFT-	W223AJ	GLADES MEDIA COMPANY, LLC	LIC	BELLE GLADE	FL	D	250	137	223	-1	68.37
158103	20131022AAC BMPFT-	W225CA	CIRCUITWERKES, INC.	CP CP	WEST PALM BEACH NORTH PALM BEACH	FL	D	99	31	225	1	60.13
143464	20150324AAB	W227CX	CAPSTAR TX LLC	MOD	BEACH	FL	D	132	153	227	3	70.21
50321	BLH-20070622AAV	WFSX-FM	SUN BROADCASTING INC	LIC	ESTERO	FL	C2	25000	191	223	-1	157.2
47387	BLH-20070622AAU BMLH-	WAFZ-FM	GLADES MEDIA COMPANY LLC	LIC	IMMOKALEE	FL	A	5600	105	221	-3	109.05
11194	20120612AAT	WEOW	FLORIDA KEYS MEDIA, LLC	LIC	KEY WEST CHARLOTTE HARBOR	FL	C1	100000	167	224	0	211.08
28899	BLH-20000626AET	WIKX	CITICASTERS LICENSES, INC.	LIC	CHARLOTTE HARBOR	FL	C1	100000	246	225	1	216.42
28899	BLH-20000626AET	WIKX	CITICASTERS LICENSES, INC.	LIC	CHARLOTTE HARBOR	FL	C1	100000	246	225	1	216.42



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