

[Exhibit 12]

Non-Interference Compliance

Regarding Facility id 147981

Channel 248

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 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 a plot and a tabulation 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 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 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-left corner (note: "Mt" refers to meters). 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 nature of the buildings in the vicinity.

Note: The USGS Quadrangle and aerial photo shows the presence of some buildings north of the transmit site that are approximately 25ft tall and a county street which is not a major road. This application provides 36ft (10.9m) of ground clearance which is more than adequate to clear these 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
177046	BLH19920918KG	WEZB	65.9	65.9
981718	BMLH20031124APH	WEZB	71.4	71.2

Minimum F(50,50) Contour of Adjacent Station within
Proposed Translator's Standard Interfering Contour **65.9**

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 **65.9 dBμ**, this makes the proposed translator's worst-case interfering contour **105.9 dBμ**. By the free-space equation, this contour is calculated to extend a maximum of **146.6 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 6 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 tower ground level (TGL) by **10.9 m** at the lowest point. The applicant has taken into account USGS quadrangles and relevant aerial photography in stating 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 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.

Note: The USGS Quadrangle and aerial photo shows the presence of some buildings north of the transmit site that are approximately 25ft tall and a county street which is not a major road. This application provides 36ft (10.9m) of ground clearance which is more than adequate to clear these 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
CORAGL: 76 m
Maximum ERP: 0.017 kW
Interfering Contour: 105.9 dBμ
Max Int. Contour Distance: 146.6 m
Min Ground Clearance: 10.9 m

Depression Angle Below Horizontal	Antenna Relative Field	ERP (watts)	Distance to Interfering Contour from Antenna (m)	Horizontal Distance of Interfering Contour from Tower (m)	Vertical Clearance of Interfering Contour above TGL (m)
5	.999	17.0	146.5	145.9	63.2
10	.982	16.4	144.0	141.8	51.0
15	.954	15.5	139.9	135.1	39.8
20	.918	14.3	134.6	126.5	30.0
25	.871	12.9	127.7	115.7	22.0
30	.818	11.4	119.9	103.9	16.0
35	.758	9.8	111.1	91.0	12.2
40	.691	8.1	101.3	77.6	10.9
45	.616	6.5	90.3	63.9	12.1
50	.538	4.9	78.9	50.7	15.6
55	.465	3.7	68.2	39.1	20.1
60	.391	2.6	57.3	28.7	26.3
65	.313	1.7	45.9	19.4	34.4
70	.239	1.0	35.0	12.0	43.1
75	.176	0.5	25.8	6.7	51.1
80	.128	0.3	18.8	3.3	57.5
85	.103	0.2	15.1	1.3	61.0
90	.105	0.2	15.4	0.0	60.6
Minimum Clearance above TGL:					10.9 m



BKO77

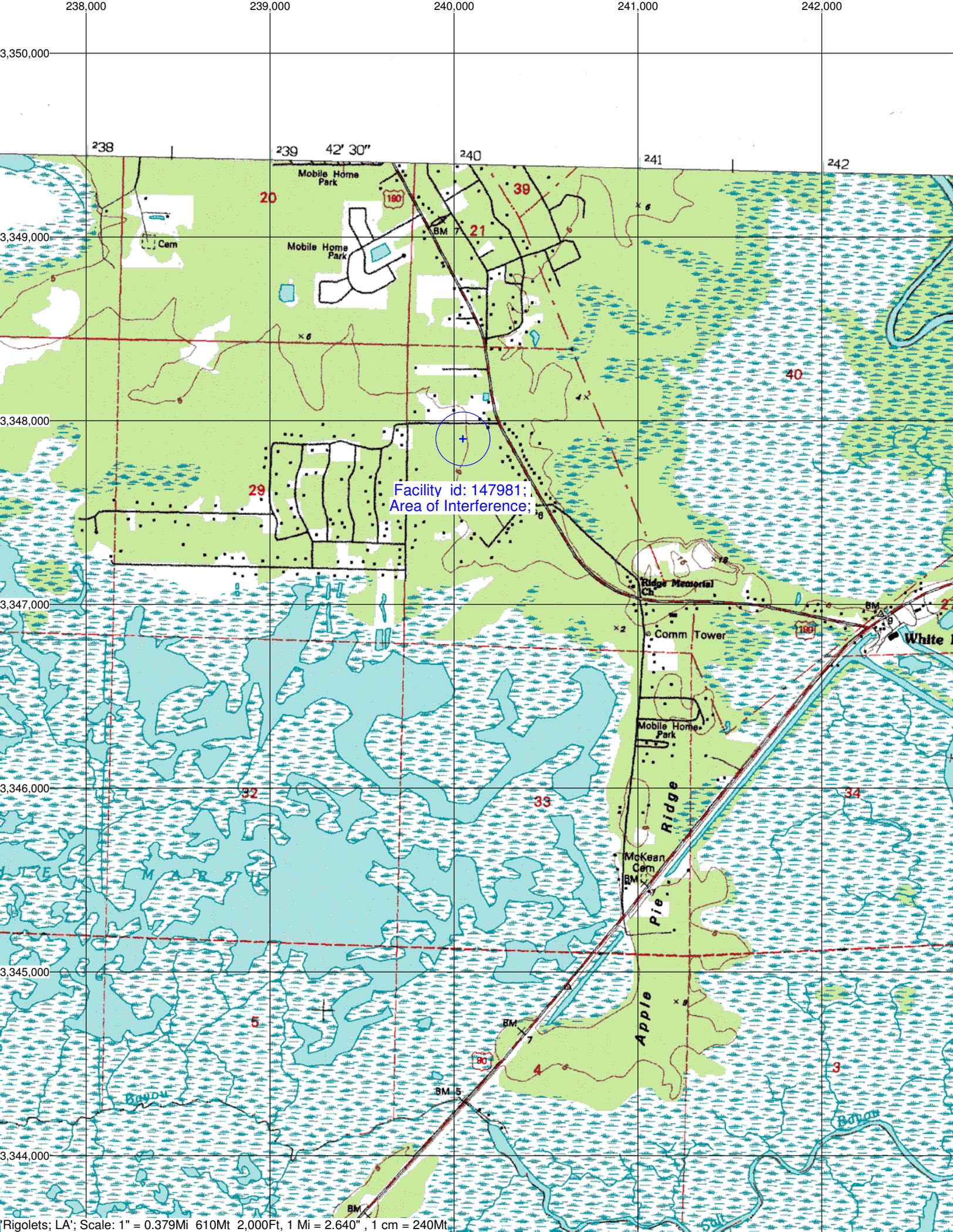
Vertical	-66	0.297	54	0.479	174	0.468
Values	-63	0.345	57	0.436	177	0.479
-180	0.487	-60	0.391	60	0.391	
-177	0.478	-57	0.436	63	0.345	
-174	0.467	-54	0.479	66	0.297	
-171	0.460	-51	0.523	69	0.253	
-168	0.454	-48	0.568	72	0.211	
-165	0.447	-45	0.616	75	0.176	
-162	0.439	-42	0.661	78	0.145	
-159	0.429	-39	0.706	81	0.120	
-156	0.419	-36	0.745	84	0.105	
-153	0.402	-33	0.783	87	0.100	
-150	0.385	-30	0.818	90	0.105	
-147	0.369	-27	0.852	93	0.118	
-144	0.359	-24	0.881	96	0.134	
-141	0.350	-21	0.910	99	0.151	
-138	0.338	-18	0.934	102	0.168	
-135	0.326	-15	0.954	105	0.185	
-132	0.314	-12	0.972	108	0.202	
-129	0.303	-9	0.987	111	0.219	
-126	0.290	-6	0.999	114	0.236	
-123	0.278	-3	0.999	117	0.252	
-120	0.265	0	1.000	120	0.265	
-117	0.251	3	0.999	123	0.278	
-114	0.236	6	0.999	126	0.290	
-111	0.218	9	0.987	129	0.304	
-108	0.202	12	0.972	132	0.314	
-105	0.185	15	0.954	135	0.327	
-102	0.168	18	0.934	138	0.338	
-99	0.151	21	0.910	141	0.350	
-96	0.134	24	0.881	144	0.360	
-93	0.118	27	0.852	147	0.370	
-90	0.105	30	0.818	150	0.386	
-87	0.100	33	0.783	153	0.403	
-84	0.105	36	0.745	156	0.420	
-81	0.120	39	0.706	159	0.430	
-78	0.145	42	0.661	162	0.440	
-75	0.176	45	0.616	165	0.448	
-72	0.211	48	0.568	168	0.455	
-69	0.253	51	0.523	171	0.461	

Better than SWR

**Adjacent Channel Study
For Station K248BA, Facility_id: 147981**

Co-channel through third adjacent:

Application_id	Facility_id	Prefix	ARN	Call	Licensee	Class	City	State	Status	ERP	RCAMSL	Channel	Adj	Dist	Overlap
981718	20346	BMLH	20031124APH	WEZB	ENTERCOM NEW ORLEANS LICENSE, LLC	C	NEW ORLEANS	LA	LIC	99	300	246	2	47	0.1014
177046	20346	BLH	19920918KG	WEZB	SINCLAIR RADIO OF NEW ORLEANS LICENS	C	NEW ORLEANS	LA	LIC	62	198	246	2	47	0.1014
1024856	20346	BPH	20040629ABT	WEZB	ENTERCOM NEW ORLEANS LICENSE, LLC	C	NEW ORLEANS	LA	APP	100	452	246	2	47.2	0.1014
681987	147937	BNPFT	20030826AKH	K248BB	RADIO ASSIST MINISTRY, INC.	D	CHALMETTE	LA	CP	0.12	40	248	0	39.7	0
681983	147948	BNPFT	20030826AKF	K248BF	RADIO ASSIST MINISTRY, INC.	D	COVINGTON	LA	CP	0.013	125	248	0	45.1	0
179734	72194	BLH	19921208KE	WCPR-FM	TRIAD BROADCASTING COMPANY, LLC	C2	WIGGINS	MS	LIC	50	177	250	2	68.8	0
646176	152965	BNPFT	20030317IXD	NEW	RADIO ASSIST MINISTRY, INC.	D	HAMMOND	LA	APP	0.027	92.6	249	1	70.9	0
646183	152972	BNPFT	20030317IXI	NEW	RADIO ASSIST MINISTRY, INC.	D	JEAN LAFITTE	LA	APP	0.013	116.6	249	1	72.6	0
640735	147971	BNPFT	20030317IXF	NEW	RADIO ASSIST MINISTRY, INC.	D	JEAN LAFITTE	LA	APP	0.013	116.6	248	0	72.6	0
83681	25518	BLH	19851122KD	WDGL	GUARANTY BROADCASTING CORPORATION	C	BATON ROUGE	LA	LIC	95	464	251	3	145.9	0



238,000 239,000 240,000 241,000 242,000

3,350,000

238 239 42' 30" 240 241 242

3,349,000

20 39 21

Cem

Mobile Home Park

BM 7

3,348,000

29

Facility id: 147981;
Area of Interference;

40

3,347,000

Ridge Memorial Ch.

Comm Tower

180

White I

3,346,000

32 33 34

Mobile Home Park

Pie Ridge

McKean Cem

BM

3,345,000

5

4

3

3,344,000

BM 5

80

Apple

Bayou

3



897012

302367

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