

[Exhibit 13]

Non-Interference Compliance

Regarding Facility id 148961

Channel 275

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 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.

Pages 4 through 5 include a tabulation of the vertical radiation pattern for the proposed antenna provided by the antenna manufacturer.

Page 6 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 7 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 8 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 tallest buildings within the zone of predicted interference are no taller than 20 ft (6.1m). This proposal provides 6.8m (22.3ft) of ground clearance, 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
1235804	BMLH20080222ADZ	WVEE	72	72
Minimum F(50,50) Contour of Adjacent Station within Proposed Translator's Standard Interfering Contour				72

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 **72 dBμ**, this makes the proposed translator's worst-case interfering contour **112 dBμ**. By the free-space equation, this contour is calculated to extend a maximum of **157.6 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 7 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 **6.8 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 tallest buildings within the zone of predicted interference are no taller than 20 ft (6.1m). This proposal provides 6.8m (22.3ft) of ground clearance, 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: BKG77-2(.5)
CORAGL: 51 m
Maximum ERP: 0.08 kW
Interfering Contour: 112 dBμ
Max Int. Contour Distance: 157.6 m
Min Ground Clearance: 6.8 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	.973	75.7	153.3	152.8	37.6
10	.933	69.6	147.0	144.8	25.5
15	.855	58.5	134.7	130.2	16.1
20	.777	48.3	122.5	115.1	9.1
25	.664	35.3	104.6	94.8	6.8
30	.560	25.1	88.3	76.4	6.9
35	.456	16.6	71.9	58.9	9.8
40	.365	10.7	57.5	44.1	14.0
45	.292	6.8	46.0	32.5	18.5
50	.227	4.1	35.8	23.0	23.6
55	.172	2.4	27.1	15.5	28.8
60	.126	1.3	19.9	9.9	33.8
65	.096	0.7	15.1	6.4	37.3
70	.072	0.4	11.3	3.9	40.3
75	.056	0.3	8.8	2.3	42.5
80	.046	0.2	7.2	1.3	43.9
85	.039	0.1	6.1	0.5	44.9
90	.035	0.1	5.5	0.0	45.5
Minimum Clearance above TGL:					6.8 m

TX station: TV Mondiale

Site name: Monte Alto

Frequency: 100.00 MHz

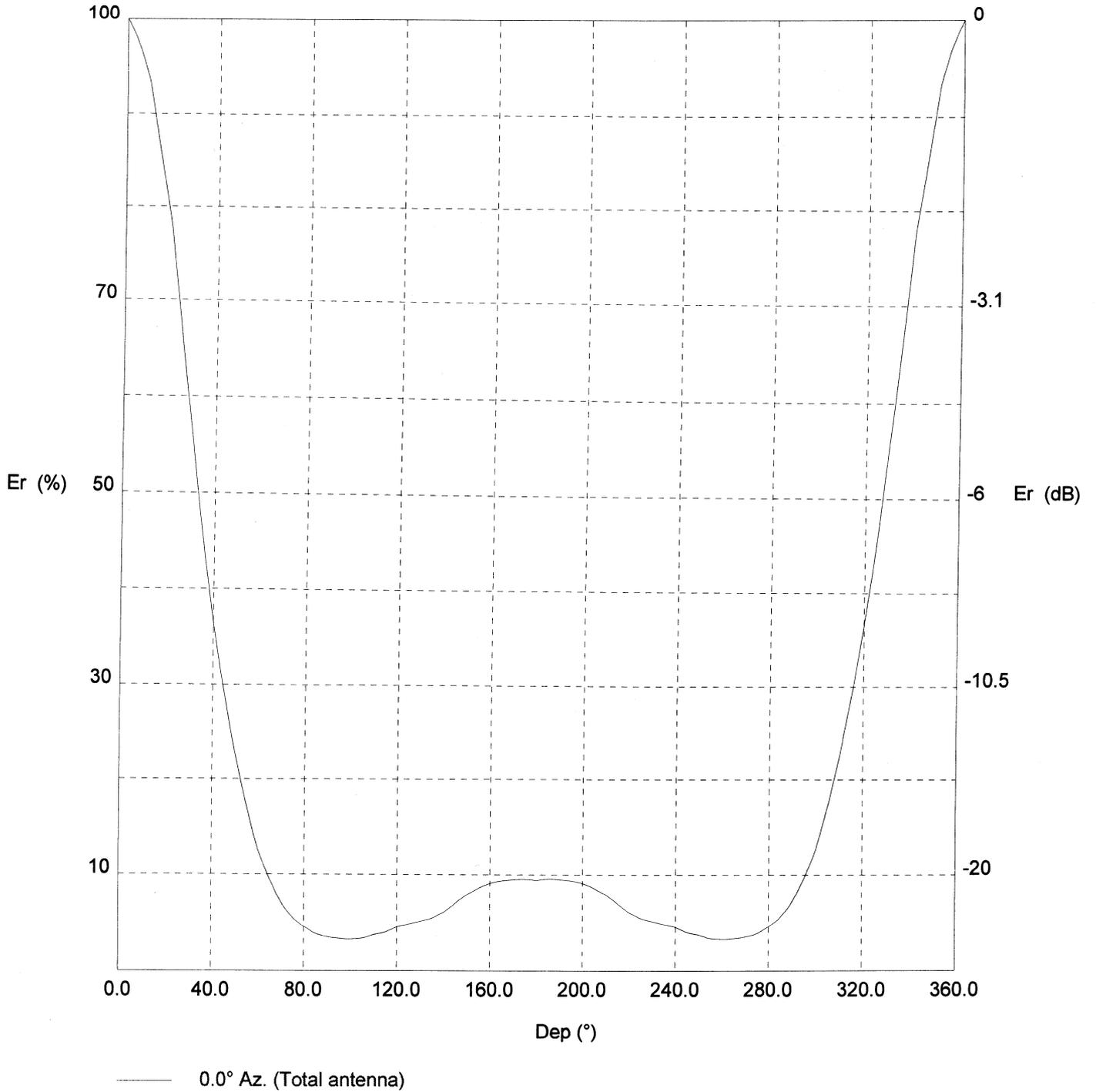
Vertical diagram at an azimuth of 0° degrees

Dep (°)	Er (%)	ERP (KW)	Dep (°)	Er (%)	ERP (KW)	Dep (°)	Er (%)	ERP (KW)
0.0	100.0	8.73	120.0	4.5	0.02	240.0	4.5	0.02
2.0	99.1	8.57	122.0	4.6	0.02	242.0	4.3	0.02
4.0	98.0	8.38	124.0	4.7	0.02	244.0	4.1	0.01
6.0	96.6	8.15	126.0	4.9	0.02	246.0	3.9	0.01
8.0	95.1	7.89	128.0	5.0	0.02	248.0	3.8	0.01
10.0	93.3	7.60	130.0	5.1	0.02	250.0	3.7	0.01
12.0	90.3	7.11	132.0	5.3	0.02	252.0	3.6	0.01
14.0	87.1	6.62	134.0	5.4	0.03	254.0	3.4	0.01
16.0	83.9	6.15	136.0	5.6	0.03	256.0	3.3	0.01
18.0	80.9	5.71	138.0	5.8	0.03	258.0	3.3	0.01
20.0	77.7	5.28	140.0	6.1	0.03	260.0	3.3	0.01
22.0	73.1	4.67	142.0	6.5	0.04	262.0	3.3	0.01
24.0	68.6	4.10	144.0	6.8	0.04	264.0	3.3	0.01
26.0	64.2	3.60	146.0	7.2	0.05	266.0	3.4	0.01
28.0	60.0	3.15	148.0	7.6	0.05	268.0	3.4	0.01
30.0	56.0	2.73	150.0	7.9	0.05	270.0	3.5	0.01
32.0	51.7	2.33	152.0	8.2	0.06	272.0	3.6	0.01
34.0	47.5	1.97	154.0	8.4	0.06	274.0	3.8	0.01
36.0	43.6	1.66	156.0	8.7	0.07	276.0	4.0	0.01
38.0	40.0	1.40	158.0	8.9	0.07	278.0	4.2	0.02
40.0	36.5	1.17	160.0	9.1	0.07	280.0	4.6	0.02
42.0	33.5	0.98	162.0	9.2	0.07	282.0	4.9	0.02
44.0	30.5	0.81	164.0	9.3	0.08	284.0	5.3	0.02
46.0	27.8	0.67	166.0	9.4	0.08	286.0	5.9	0.03
48.0	25.1	0.55	168.0	9.5	0.08	288.0	6.5	0.04
50.0	22.7	0.45	170.0	9.5	0.08	290.0	7.2	0.05
52.0	20.3	0.36	172.0	9.5	0.08	292.0	8.1	0.06
54.0	18.2	0.29	174.0	9.5	0.08	294.0	9.1	0.07
56.0	16.2	0.23	176.0	9.5	0.08	296.0	10.1	0.09
58.0	14.3	0.18	178.0	9.5	0.08	298.0	11.3	0.11
60.0	12.6	0.14	180.0	9.4	0.08	300.0	12.6	0.14
62.0	11.3	0.11	182.0	9.5	0.08	302.0	14.3	0.18
64.0	10.1	0.09	184.0	9.5	0.08	304.0	16.2	0.23
66.0	9.1	0.07	186.0	9.6	0.08	306.0	18.2	0.29
68.0	8.1	0.06	188.0	9.5	0.08	308.0	20.3	0.36
70.0	7.2	0.05	190.0	9.5	0.08	310.0	22.7	0.45
72.0	6.5	0.04	192.0	9.5	0.08	312.0	25.1	0.55
74.0	5.9	0.03	194.0	9.4	0.08	314.0	27.8	0.67
76.0	5.3	0.02	196.0	9.3	0.08	316.0	30.5	0.81
78.0	4.9	0.02	198.0	9.2	0.07	318.0	33.5	0.98
80.0	4.6	0.02	200.0	9.1	0.07	320.0	36.5	1.17
82.0	4.2	0.02	202.0	8.9	0.07	322.0	40.0	1.40
84.0	4.0	0.01	204.0	8.7	0.07	324.0	43.6	1.66
86.0	3.8	0.01	206.0	8.4	0.06	326.0	47.5	1.97
88.0	3.6	0.01	208.0	8.2	0.06	328.0	51.7	2.33
90.0	3.5	0.01	210.0	7.9	0.05	330.0	56.0	2.73
92.0	3.4	0.01	212.0	7.6	0.05	332.0	60.0	3.15
94.0	3.4	0.01	214.0	7.2	0.05	334.0	64.2	3.60
96.0	3.3	0.01	216.0	6.8	0.04	336.0	68.6	4.10
98.0	3.3	0.01	218.0	6.5	0.04	338.0	73.1	4.67
100.0	3.3	0.01	220.0	6.1	0.03	340.0	77.7	5.28
102.0	3.3	0.01	222.0	5.8	0.03	342.0	80.9	5.71
104.0	3.3	0.01	224.0	5.6	0.03	344.0	83.9	6.15
106.0	3.4	0.01	226.0	5.4	0.03	346.0	87.1	6.62
108.0	3.6	0.01	228.0	5.3	0.02	348.0	90.3	7.11
110.0	3.7	0.01	230.0	5.1	0.02	350.0	93.3	7.60
112.0	3.8	0.01	232.0	5.0	0.02	352.0	95.1	7.89
114.0	3.9	0.01	234.0	4.9	0.02	354.0	96.6	8.15
116.0	4.1	0.01	236.0	4.7	0.02	356.0	98.0	8.38
118.0	4.3	0.02	238.0	4.6	0.02	358.0	99.1	8.57

TX station: TV Mondiale
Frequency: 100.00 MHz

Site name: Monte Alto

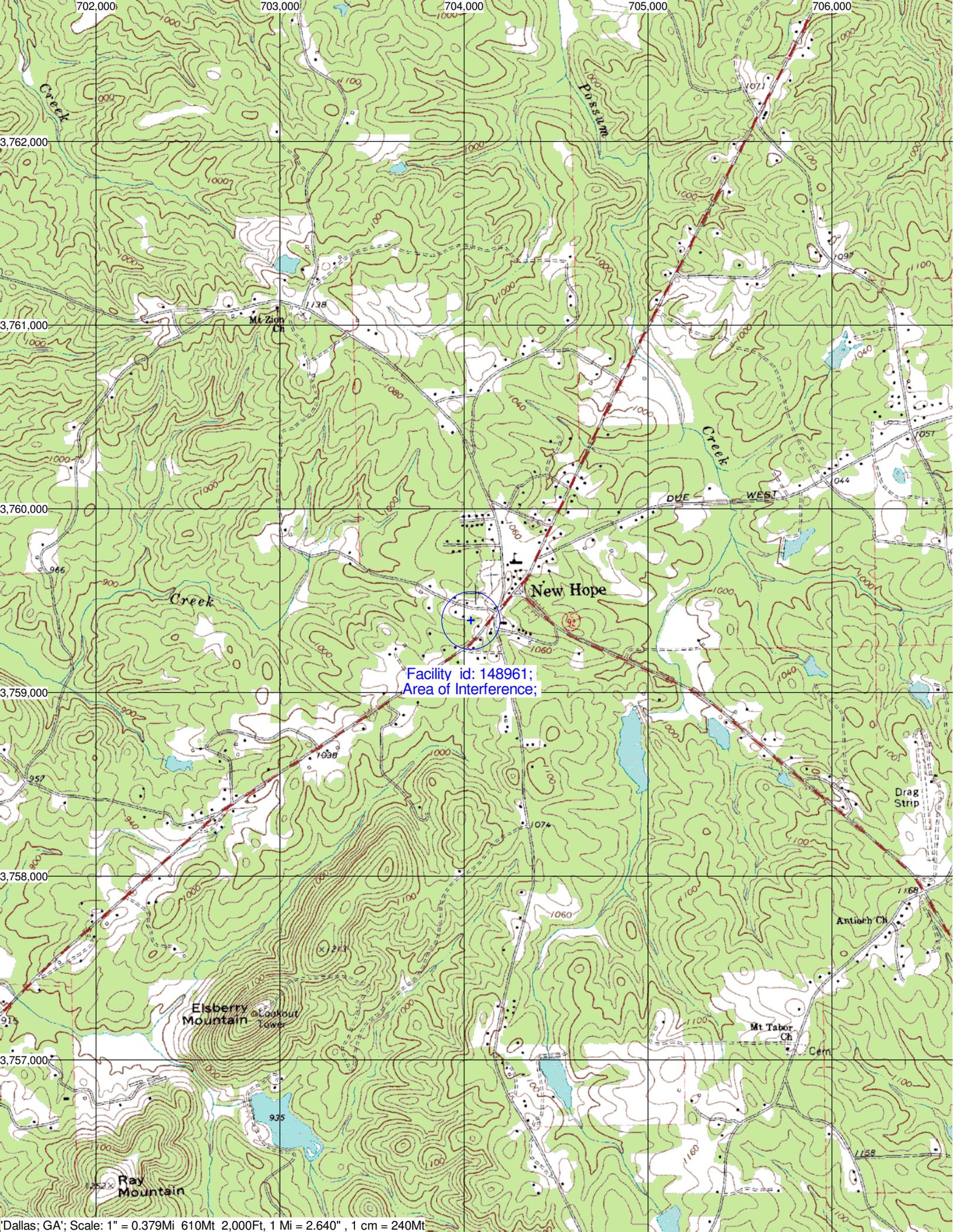
Vertical diagram



**Adjacent Channel Study
For Station W221CG, Facility_id: 148961**

Co-channel through third adjacent:

Application_id	Facility_id	Prefix	ARN	Call	Licensee	Class	City	State	Status	ERP	RCAMSL	Channel	Adj	Dist	Overlap
1235804	63776	BMLH	20080222ADZ	WVEE	CBS RADIO EAST INC.	C0	ATLANTA	GA	LIC	100	594	277	2	47.6	0.4774
1163684	63776	BXMLH	20061207AAR	WVEE	CBS RADIO EAST INC.	C0	ATLANTA	GA	LIC	95	524	277	2	47.6	0.4774
698592	24562	BXLH	20031110ANR	WPZE	NEW MABLETON BROADCASTING CORPORATI	A	MABLETON	GA	LIC	3	411	273	2	39.6	0
579546	24562	BLH	20010906AAH	WPZE	NEW MABLETON BROADCASTING, INC.	A	MABLETON	GA	LIC	3	416	273	2	39.6	0
641795	148957	BNPFT	20030317HUQ	NEW	RADIO ASSIST MINISTRY, INC.	D	ADAIRSVILLE	GA	APP	0.01	361	275	0	41.2	0
639949	147303	BNPFT	20030317EAU	NEW	IMMANUEL BROADCASTING NETWORK	D	CANTON	GA	APP	0.01	602	274	1	42.9	0
641801	148963	BNPFT	20030317IEF	NEW	RADIO ASSIST MINISTRY, INC.	D	ROME	GA	APP	0.01	356.3	275	0	44.1	0
1266127	147303	BNPFT	20080618ADW	NEW	IMMANUEL BROADCASTING NETWORK	D	CANTON	GA	APP	0.01	422	274	1	47.2	0
641708	148874	BNPFT	20030314CKD	NEW	ALABAMA CHRISTIAN RADIO INC	D	ATLANTA JUNCTION	GA	APP	0.25	213	276	1	47.2	0
1308327	143866	BLFT	20090413ABY	W275BK	EXTREME MEDIA GROUP, LLC	D	DECATUR	GA	LIC	0.11	485	275	0	47.6	0
623268	40816	BMLH	20030122ADR	WQTU	MCDUGALD BROADCASTING CORP.	A	ROME	GA	LIC	1.1	451	272	3	50.8	0
1172833	63409	BPH	20061220AAW	WCKS	WCKS, LLC	A	FRUITHURST	AL	CP	1.55	527	274	1	55.8	0
198585	63409	BLH	19940422KA	WCKS	WCKS, INC.	A	FRUITHURST	AL	LIC	1.65	509	274	1	62.6	0
615647	124819	BLL	20021022AAA	WLOJ-LP	GEORGIA-CUMBERLAND ASSOCIATION OF SEV	L1	CALHOUN	GA	LIC	0	255.6	275	0	63.1	0
630833	139773	BNPFT	20030313BNF	NEW	BEST MEDIA, INC.	D	STOCKBRIDGE	GA	APP	0.055	283	272	3	71.6	0
635663	143456	BNPFT	20030312BDI	NEW	COMMUNITY PUBLIC RADIO, INC.	D	FLIPPEN	GA	APP	0.038	300	272	3	75	0
659231	36350	BLH	20030416AAA	WLKQ-FM	LAKE RADIO, INC.	A	BUFORD	GA	LIC	4.2	452	272	3	77.3	0
628632	138386	BNPFT	20030310ACX	NEW	AUGUSTA RADIO FELLOWSHIP INSTITUTE, INC	D	GRIFFIN	GA	APP	0.038	300	272	3	85.4	0



Facility id: 148961;
Area of Interference;

