

[Exhibit 12]

## **Non-Interference Compliance**

Regarding Facility id 148961

Channel 275

### **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 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 $\mu$  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.

## 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 dB $\mu$  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.

<b>Application_id</b>	<b>File Number</b>	<b>Callsign</b>	<b>Contour at Tower</b>	<b>Min. Contour</b>
513788	BLH20000920AAB	WVEE	76.7	76.7
	Minimum F(50,50) Contour of Adjacent Station within Proposed Translator's Standard Interfering Contour			<b>76.7</b>

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 **76.7 dB $\mu$** , this makes the proposed translator's worst-case interfering contour **116.7 dB $\mu$** . By the free-space equation, this contour is calculated to extend a maximum of **63.2 m** from the transmit antenna.

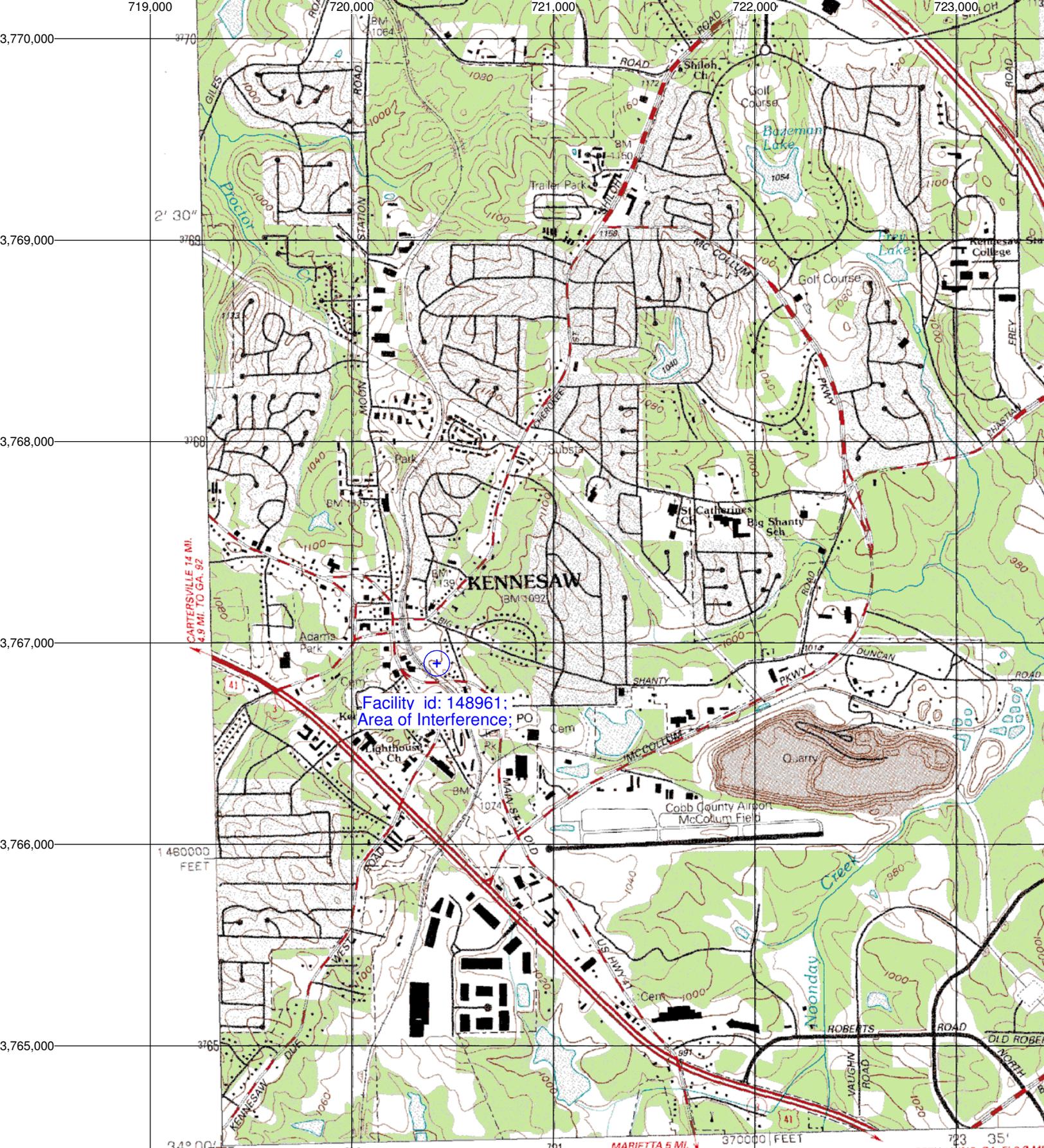
The interfering contour of the proposed translator was calculated for 120 radials and plotted on the pertinent portion of a USGS quadrangle (page 4 of this exhibit). As demonstrated on the quadrangle, there are no populated structures or highways within the area of interference (Note: FCC 02-244 at Section 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:** 6 m  
**Maximum ERP:** 0.038 kW  
**Interfering Contour:** 116.7 dB $\mu$   
**Max Int. Contour Distance:** 63.2 m

**Adjacent Channel Study  
For Station W275AQ, 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
1140379	63776	BXPH	20060710ABM	WVEE	CBS RADIO EAST INC.	C0	ATLANTA	GA	CP	48	612	277	2	34.7	0.2268
597512	63776	BXPH	20020315AAC	WVEE	INFINITY BROADCASTING OPERATIONS INC.	C0	ATLANTA	GA	CP	8.8	569	277	2	35.7	0.2268
1163684	63776	BXMLH	20061207AAR	WVEE	CBS RADIO EAST INC.	C0	ATLANTA	GA	LIC	95	524	277	2	38.8	0.2268
184097	63776	BXLH	19930401KD	WVEE	INFINITY OF GEORGIA LICENSEE CORP.	C0	ATLANTA	GA	LIC	95	524	277	2	38.8	0.2268
513788	63776	BLH	20000920AAB	WVEE	INFINITY OF GEORGIA LICENSE CORPORATION	C0	ATLANTA	GA	LIC	100	594	277	2	38.8	0.2268
639949	147303	BNPFT	20030317EAU	NEW	IMMANUEL BROADCASTING NETWORK	D	CANTON	GA	APP	0.01	602	274	1	29.2	0
698592	24562	BXLH	20031110ANR	WAMJ	NEW MABLETON BROADCASTING CORPORATION	A	MABLETON	GA	LIC	3	411	273	2	38.2	0
579546	24562	BLH	20010906AAH	WAMJ	NEW MABLETON BROADCASTING, INC.	A	MABLETON	GA	LIC	3	416	273	2	38.2	0
641795	148957	BNPFT	20030317HUQ	NEW	RADIO ASSIST MINISTRY, INC.	D	ADAIRSVILLE	GA	APP	0.01	361	275	0	42	0
641801	148963	BNPFT	20030317IEF	NEW	RADIO ASSIST MINISTRY, INC.	D	ROME	GA	APP	0.01	356.3	275	0	54.2	0
641708	148874	BNPFT	20030314CKD	NEW	JIMMY JARRELL COMMUNICATIONS FOUNDATION	D	ATLANTA JUNCTION	GA	APP	0.25	213	276	1	57.1	0
659231	36350	BLH	20030416AAA	WLKQ-FM	LAKE RADIO, INC.	A	BUFORD	GA	LIC	4.2	452	272	3	59.7	0
623268	40816	BMLH	20030122ADR	WQTU	MCDUGALD BROADCASTING CORP.	A	ROME	GA	LIC	1.1	451	272	3	61.6	0
615647	124819	BLL	20021022AAA	WLOJ-LP	GEORGIA-CUMBERLAND ASSOCIATION OF SEVE	L1	CALHOUN	GA	LIC	0	255.6	275	0	61.6	0
630833	139773	BNPFT	20030313BNF	NEW	BEST MEDIA, INC.	D	STOCKBRIDGE	GA	APP	0.055	283	272	3	65.7	0
635663	143456	BNPFT	20030312BDI	NEW	COMMUNITY PUBLIC RADIO, INC.	D	FLIPPEN	GA	APP	0.038	300	272	3	70.2	0
1168634	63409	BPH	20061220AAW	WCKS	WCKS, LLC	A	FRUITHURST	AL	APP	1.55	527	274	1	73.5	0
198585	63409	BLH	19940422KA	WCKS	WCKS, INC.	A	FRUITHURST	AL	LIC	1.65	509	274	1	80.2	0



Facility id: 148961;  
Area of Interference;

Produced by the United States Geological Survey  
in cooperation with State of Georgia agencies  
Control by USGS, NOS/NOAA, Georgia Department of Transportation  
and Georgia Geodetic Survey

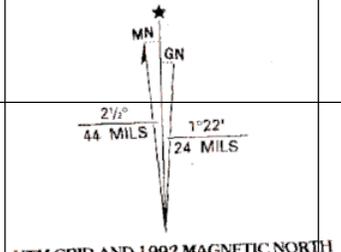
Topography by photogrammetric methods from aerial photographs  
taken 1955. Field checked 1956. Revised from aerial photographs  
taken 1988. Field checked 1991. Map edited 1992

Projection and 10,000-foot grid ticks: Georgia coordinate  
system, west zone (transverse Mercator)

1000-meter Universal Transverse Mercator grid, zone 16

Kennesaw; GA; Scale: 1" = 0.379Mi

610Mt 2,000Ft, 1 Mi = 2,640", 1 cm = 240Mt



LOST MOUNTAIN  
40511 NW

CARTERSVILLE 14 MI.  
4.9 MI. TO GA. 92

MARIETTA 5 MI.

ELIZABETH (JUNC. GA. 5) 2.8 MI.  
ATLANTA (CIVIC CENTER) 22 MI.