

## **Non-Interference Compliance**

Regarding Facility id 150669

Channel 209

### **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 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 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 quadrangle and aerial photo indicate the presence of county roads in the area of interference. It is apparent that these are not major roads, e.g. interstate highways, as described in the Living Way decision. The zone of predicted interference extends 212.6m from the proposed transmit site. The nearest buildings are 214m away to the northwest and to the southwest, 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
1017980	BLED20040927ALP	WABE	74.4	74.1
1198644	BPED20070820ABQ	WABE	77.1	76.9
1208736	BLED20071001DQH	WRFG	66.6	66.6
Minimum F(50,50) Contour of Adjacent Station within Proposed Translator's Standard Interfering Contour				<b>66.6</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 **66.6 dBμ**, this makes the proposed translator's worst-case interfering contour **106.6 dBμ**. By the free-space equation, this contour is calculated to extend a maximum of **212.6 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").

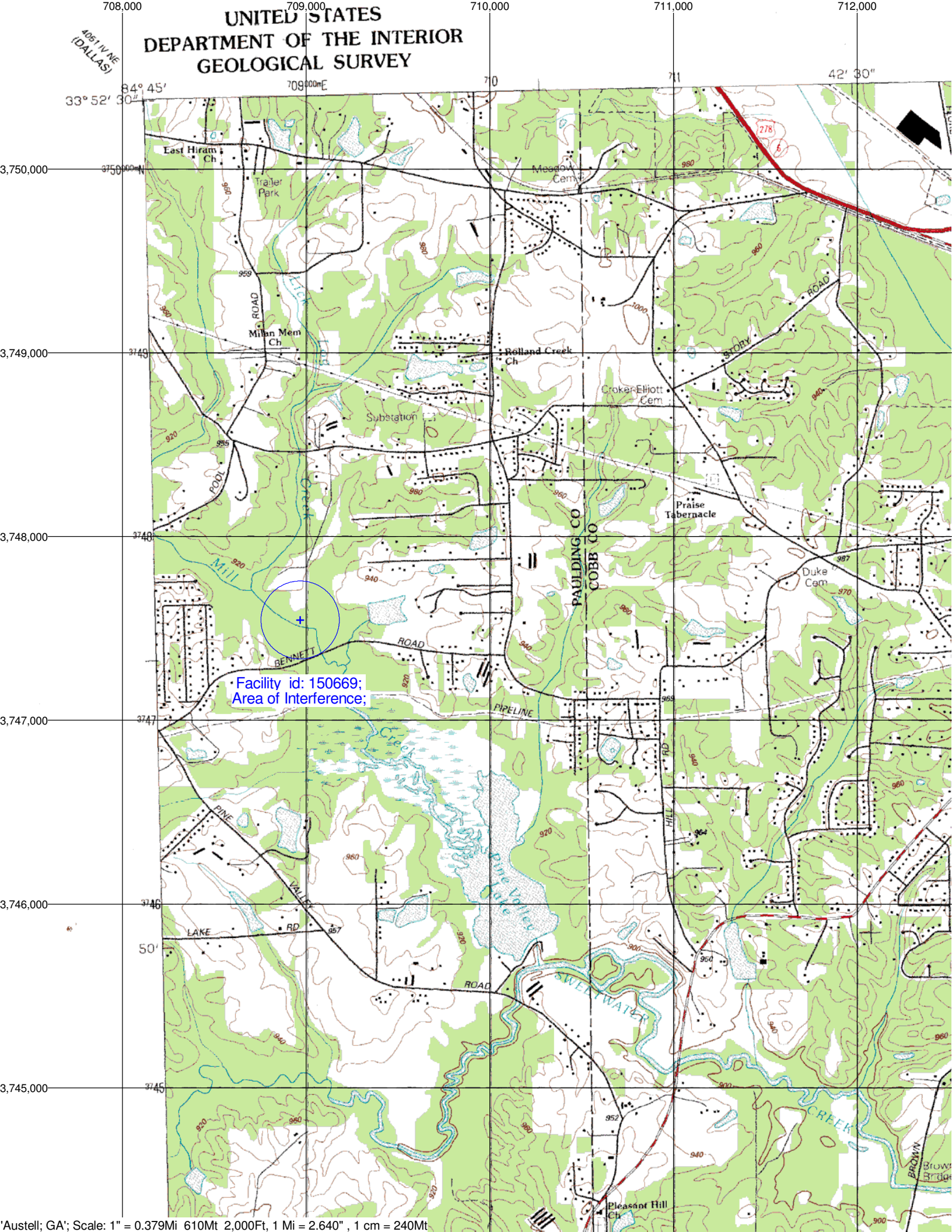
**Note: The quadrangle and aerial photo indicate the presence of county roads in the area of interference. It is apparent that these are not major roads, e.g. interstate highways, as described in the Living Way decision. The zone of predicted interference extends 212.6m from the proposed transmit site. The nearest buildings are 214m away to the northwest and to the southwest, 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:** BLD1/P  
**CORAGL:** 20 m  
**Maximum ERP:** 0.042 kW  
**Interfering Contour:** 106.6 dBμ  
**Max Int. Contour Distance:** 212.6 m

**Adjacent Channel Study**  
**For Station W209CG, Facility\_id: 150669**

**Co-channel through third adjacent:**

Application_id	Facility_id	Prefix	ARN	Call	Licensee	Class	City	State	Status	ERP	RCAMSL	Channel	Adj	Dist	Overlap
1208736	54585	BLED	20071001DQH	WRFG	RADIO FREE GEORGIA BROADCASTING FOUNI	C1	ATLANTA	GA	LIC	65	432	207	2	37.4	0.2506
1017980	3538	BLED	20040927ALP	WABE	BOARD OF EDUCATION OF THE CITY OF ATLAI	C1	ATLANTA	GA	LIC	96	531.2	211	2	38.8	0.2506
1198644	3538	BPED	20070820ABQ	WABE	BOARD OF EDUCATION OF THE CITY OF ATLAI	C0	ATLANTA	GA	CP	100	615	211	2	38.9	0.2506
606608	123241	BNPFT	20000417AAK	NEW	FAITH PLEASES GOD CHURCH CORP.	D	CARROLLTON	GA	APP	0.027	394	210	1	42.2	0
701533	93444	BLED	20040217ABU	WWBM	BEST MEDIA, INC.	A	YATES	GA	LIC	1	351	209	0	45.2	0
1208875	173263	BNPED	20071012AFG	NEW	SOUTHWEST RADIO CHURCH OF THE AIR, INC	A	CEDARTOWN	GA	APP	1	347	208	1	56.5	0
220459	64263	BLFT	19960213TD	W212AR	WAY-FM MEDIA GROUP, INC.	D	LINDALE	GA	LIC	0.01	434	212	3	62.1	0
1271242	177189	BNPED	20071022BHR	NEW	HARVEST CHRISTIAN FELLOWSHIP, INC.	C3	PIEDMONT	AL	APP	7.1	379	208	1	66.3	0
1061697	92876	BLED	20050512ADF	WKNG-FM	COVENANT COMMUNICATIONS INC.	A	HEFLIN	AL	LIC	0.25	533	206	3	73.8	0
1198365	171676	BNPED	20071015ABB	NEW	ALABAMA CHRISTIAN RADIO INC	A	PIEDMONT	AL	APP	0.3	278	208	1	78.2	0
1213398	175734	BNPED	20071017ABV	NEW	JOY CHRISTIAN COMMUNICATIONS, INC	A	PIEDMONT	AL	APP	0.5	256	208	1	79.4	0
1333955	152214	BLFT	20090916ADI	W209CD	EDGEWATER BROADCASTING, INC.	D	BUFORD	GA	LIC	0.007	438	209	0	80	0



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

4051 IV NE  
(DALLAS)

84° 45' 33" 52' 30" 709.000E 710 711 42' 30"

3,750,000  
3,749,000  
3,748,000  
3,747,000  
3,746,000  
3,745,000

3750000  
3749000  
3748000  
3747000  
3746000  
3745000

East Hiram Ch

Trailer Park

Milan Mem Ch

Meadow Cem

Rolland Creek Ch

Crocker-Elliott Cem

Praise Tabernacle

Duke Cem

Pleasant Hill Ch

Facility id: 150669;  
Area of Interference;

