

[Exhibit 13]

## **Non-Interference Compliance**

Regarding Facility id 151736

Channel 232

### **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 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.

Pages 5 and 6 of this exhibit is are aerial photos of the vicinity surrounding the translator's proposed transmit site.

### 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.

| <b>Application_id</b>   | <b>File Number</b> | <b>Callsign</b> | <b>Contour at Tower</b> | <b>Min. Contour</b> |
|---|--------------------|-----------------|-------------------------|---------------------|
| 153863  | BLH19901029KC      | WMTM-FM         | 67.4                    | 67.3                |
| Minimum F(50,50) Contour of Adjacent Station within<br>Proposed Translator's Standard Interfering Contour |                    |                 |                         | <b>67.3</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 **67.3 dBμ**, this makes the proposed translator's worst-case interfering contour **107.3 dBμ**. By the free-space equation, this contour is calculated to extend a maximum of **30.3 m** from the transmit antenna.

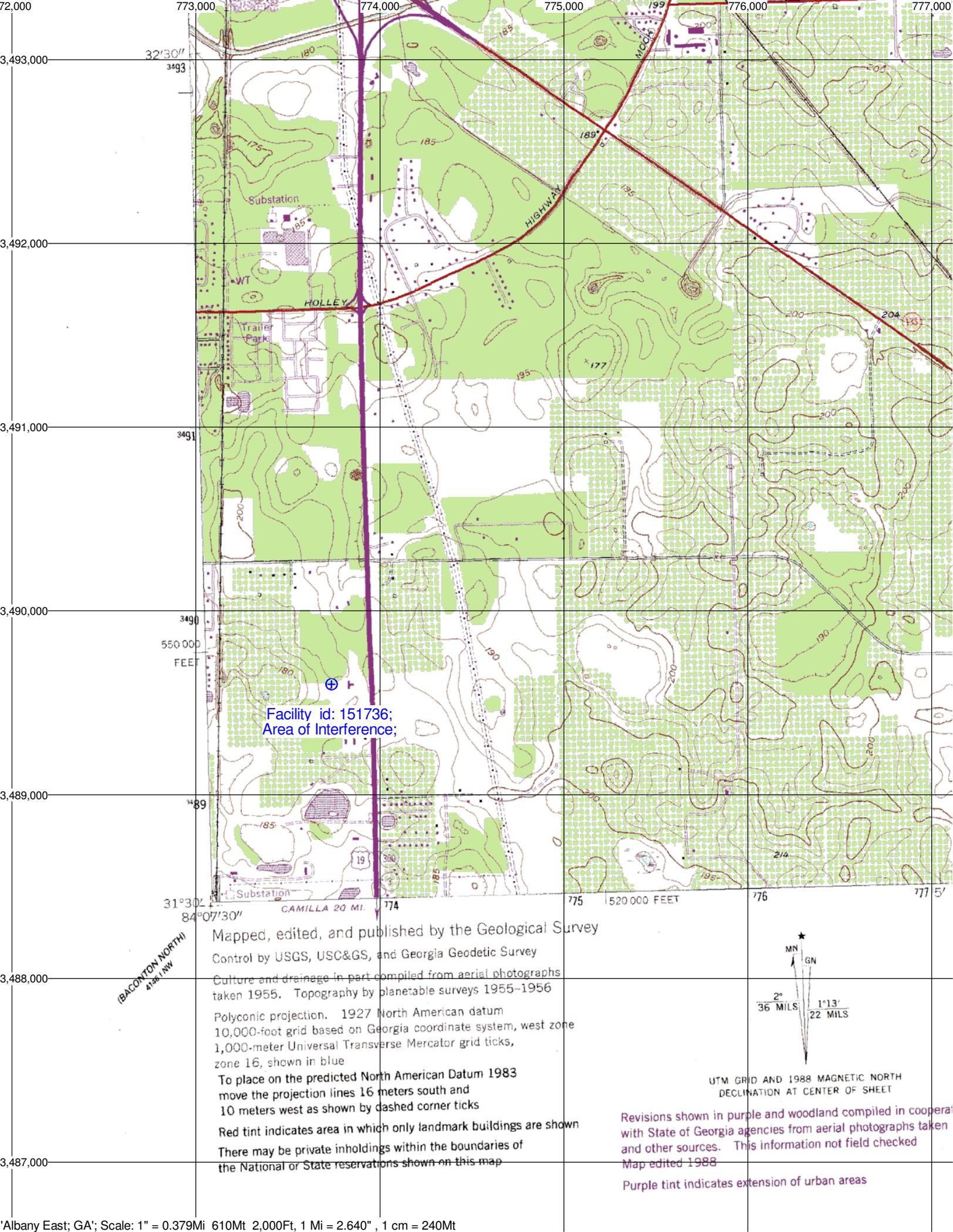
The interfering contour of the proposed translator was calculated for 120 radials and plotted on the pertinent portion of a USGS quadrangle (page 4 of this exhibit). As demonstrated on the quadrangle, there are no populated structures or highways within the area of interference (Note: FCC 02-244 at Section 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:** WRL  
**Antenna Model:** FMPV1  
**CORAGL:** 6 m  
**Maximum ERP:** 0.001 kW  
**Interfering Contour:** 107.3 dBμ  
**Max Int. Contour Distance:** 30.3 m

**Adjacent Channel Study  
For Station W232BI, Facility\_id: 151736**

**Co-channel through third adjacent:**

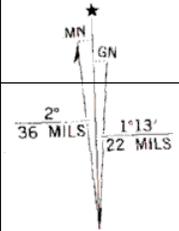
| Application_id | Facility_id | Prefix | ARN         | Call    | Licensee                               | Class | City        | State | Status | ERP  | RCAMSL | Channel | Adj | Dist  | Overlap |
|----------------|-------------|--------|-------------|---------|--|-------|-------------|-------|--------|------|--------|---------|-----|-------|---------|
| 153863         | 12381       | BLH    | 19901029KC  | WMTM-FM | COLQUITT BROADCASTING COMPANY, LLC     | C1    | MOULTRIE    | GA    | LIC    | 100  | 261    | 230     | 2   | 45.5  | 4503.98 |
| 291158         | 94987       | Null   | Null        | Null    |  | C1    | MOULTRIE    | GA    | USE    | 0    | 0      | 230     | 2   | 51.7  | 3304.27 |
| 1169436        | 151751      | BLFT   | 20070123ACD | W232AB  | RADIO ASSIST MINISTRY, INC.            | D     | CAMILLA     | GA    | LIC    | 0.01 | 210    | 232     | 0   | 41.8  | 0       |
| 222665         | 63786       | BLH    | 19960401KA  | WDEC-FM | SUMTER BROADCASTING CO., INC.          | C3    | AMERICUS    | GA    | LIC    | 25   | 205    | 234     | 2   | 46.9  | 0       |
| 299236         | 63786       | Null   | Null        | WDEC-FM | SUMTER BROADCASTING CO., INC.          | C3    | AMERICUS    | GA    | USE    | 0    | 0      | 234     | 2   | 55.7  | 0       |
| 1303664        | 165968      | BLH    | 20090326ADU | WLEL    | SUMMER ROSE BROADCASTING               | A     | ELLAVILLE   | GA    | LIC    | 4.8  | 230    | 232     | 0   | 83.2  | 0       |
| 677516         | 0           | RM     | 11196       | Null    |  | A     | ELLAVILLE   | GA    | USE    | 0    | 0      | 232     | 0   | 84.8  | 0       |
| 290655         | 23615       | Null   | Null        | WIZB    | RADIO TRAINING NETWORK, INC.           | C3    | ABBEVILLE   | AL    | USE    | 0    | 0      | 232     | 0   | 89.9  | 0       |
| 291549         | 51590       | Null   | Null        | WTNT-FM | CLEAR CHANNEL BROADCASTING LICENSES, I | C1    | TALLAHASSEE | FL    | USE    | 0    | 0      | 235     | 3   | 104.5 | 0       |
| 1423443        | 51590       | BMLH   | 20110408ABN | WTNT-FM | CLEAR CHANNEL BROADCASTING LICENSES, I | C1    | TALLAHASSEE | FL    | LIC    | 98   | 303    | 235     | 3   | 104.6 | 0       |



Facility id: 151736;  
Area of Interference;

(BACANTON NORTH)  
4126 1 NW

Mapped, edited, and published by the Geological Survey  
Control by USGS, USC&GS, and Georgia Geodetic Survey  
Culture and drainage in part compiled from aerial photographs  
taken 1955. Topography by planetable surveys 1955-1956  
Polyconic projection. 1927 North American datum  
10,000-foot grid based on Georgia coordinate system, west zone  
1,000-meter Universal Transverse Mercator grid ticks,  
zone 16, shown in blue  
To place on the predicted North American Datum 1983  
move the projection lines 16 meters south and  
10 meters west as shown by dashed corner ticks  
Red tint indicates area in which only landmark buildings are shown  
There may be private inholdings within the boundaries of  
the National or State reservations shown on this map

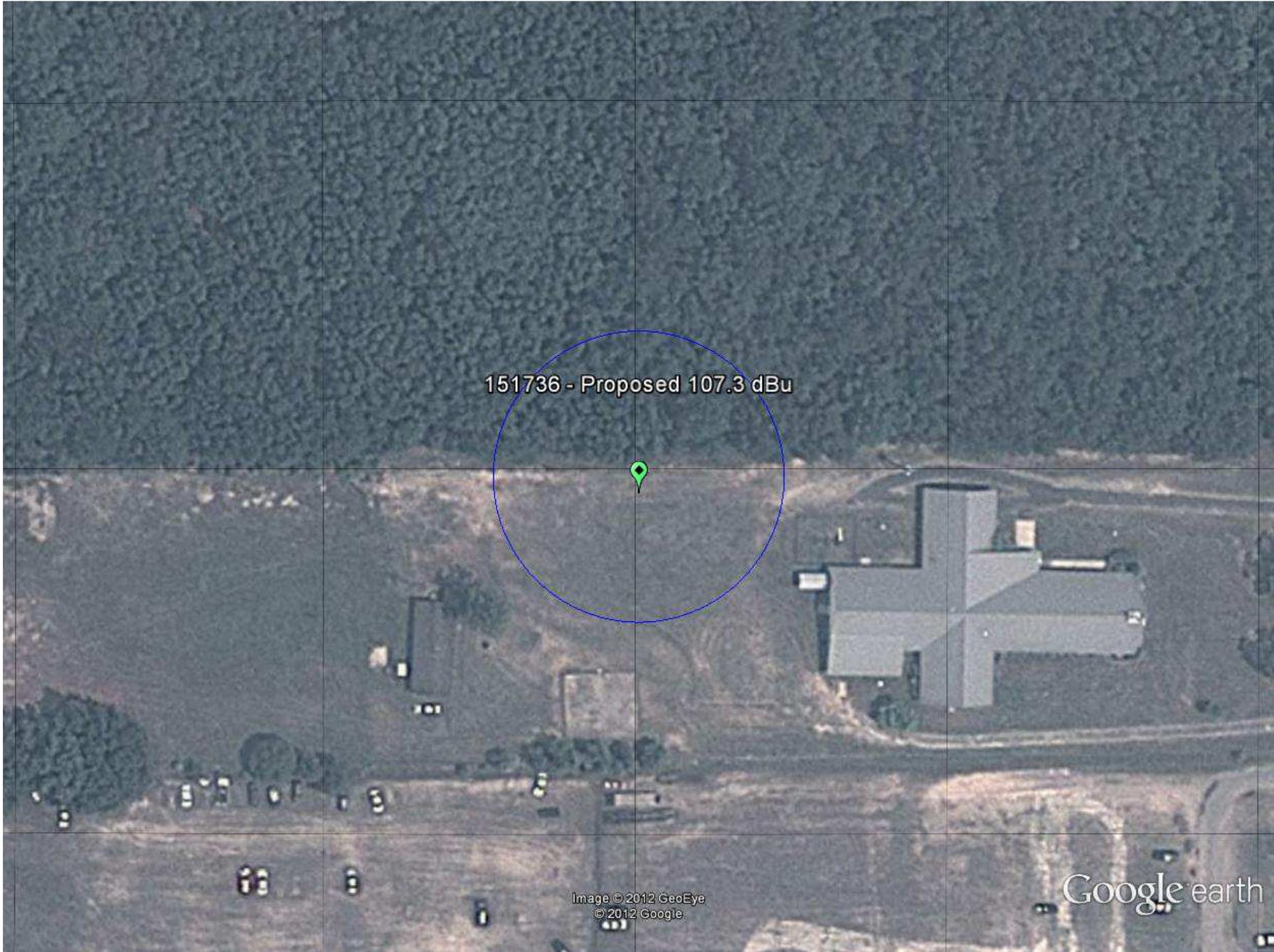


UTM GRID AND 1988 MAGNETIC NORTH  
DECLINATION AT CENTER OF SHEET

Revisions shown in purple and woodland compiled in cooperation  
with State of Georgia agencies from aerial photographs taken  
and other sources. This information not field checked  
Map edited 1988

Purple tint indicates extension of urban areas





151736 - Proposed 107.3 dBu

Image © 2012 GeoEye  
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Google earth

Google earth

feet  
meters

