

[Exhibit 13]

## **Non-Interference Compliance**

Regarding Facility id 150411

Channel 285

### **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.

Page 5 of this exhibit is an aerial photo of the vicinity surrounding the proposed translator's tower site.

**Note: The only structure within the zone of predicted interference is an unoccupied communications building 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 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>
1672296	BLH20150302AAP	WSCG	89.7	89.7
	Minimum F(50,50) Contour of Adjacent Station within Proposed Translator's Standard Interfering Contour			<b>89.7</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 **89.7 dB $\mu$** , this makes the proposed translator's worst-case interfering contour **129.7 dB $\mu$** . By the free-space equation, this contour is calculated to extend a maximum of **22 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").

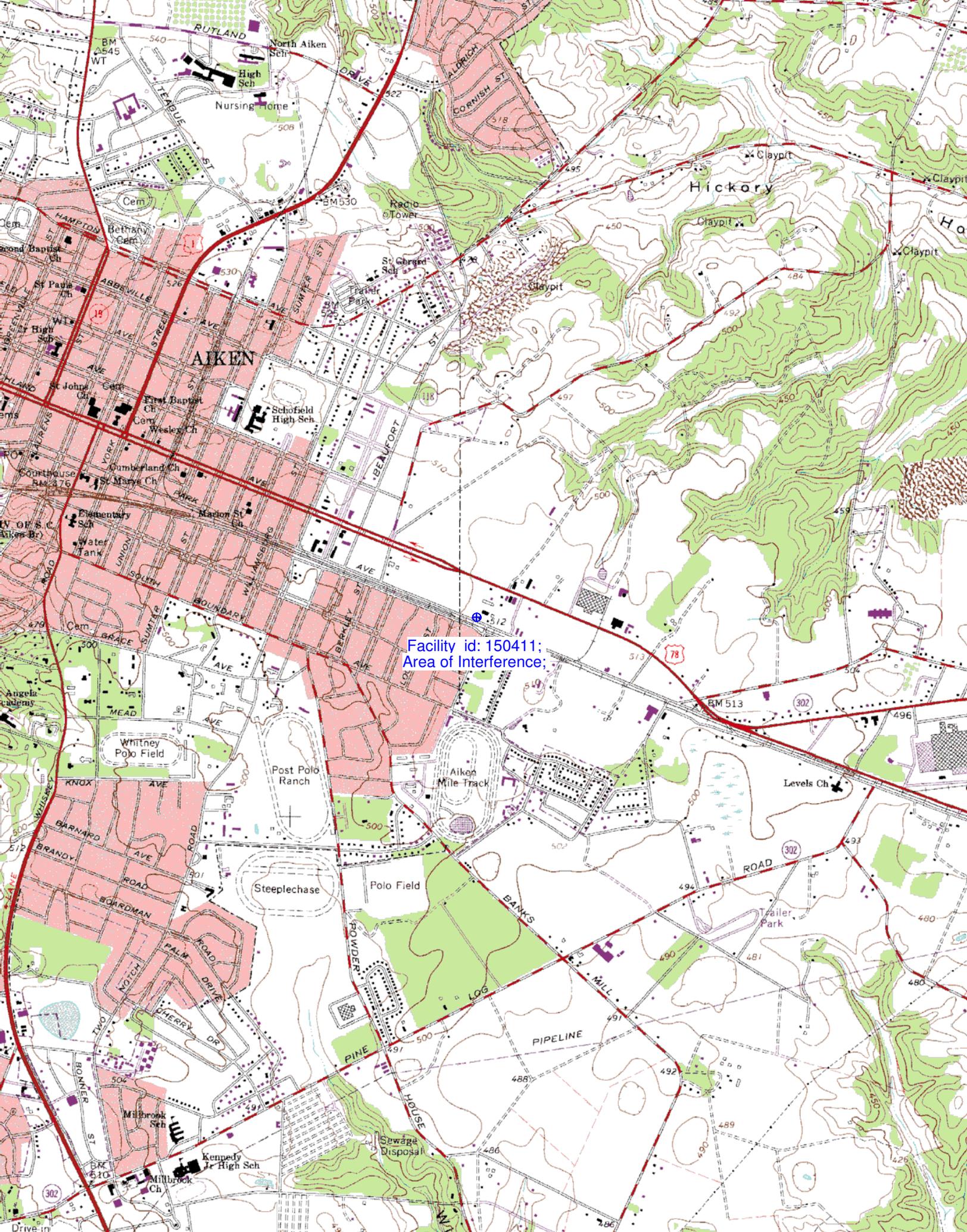
**Note: The only structure within the zone of predicted interference is an unoccupied communications building so a lack of population has been demonstrated within the area of interference and this application is therefore in full compliance with 47 C.F.R. § 74.1204.**

**Antenna Manufacturer:** PSI  
**Antenna Model:** FML-2  
**CORAGL:** 52 m  
**Maximum ERP:** 0.092 kW  
**Interfering Contour:** 129.7 dB $\mu$   
**Max Int. Contour Distance:** 22 m

**Adjacent Channel Study**  
**For Station W286CG, Facility\_id: 150411**

**Co-channel through third adjacent:**

App_id	Fac_id	File_Number	Call	Licensee	Class	City	State	Status	ERP	RCAMSL	Char	Adj	Dist	Overlap
1494689	59249	BLH-20120403ACE	WBBQ-FM	CAPSTAR TX, LLC	C0	AUGUSTA	GA	LIC	78	517	282	3	19.5	0.549
1630715	150276	BMPFT-20140320AEI	W287CG	EDGEWATER BROADCASTING, I	D	AUGUSTA-RICHM	GA	CP MOD	0.215	207	287	2	25	0
1717527	158101	BMPFT-20160129AEI	W284CX	CLEAR CHANNEL BROADCASTIN	D	AUGUSTA	GA	CP MOD	0.22	202	284	1	25	0
1718769	147585	BMPFT-20160128BCI	W286CT	GLORY COMMUNICATIONS, INC.	D	COLUMBIA	SC	CP MOD	0.25	170	286	1	65.3	0
1521102	151804	BLFT-20121019AAG	W285EP	CAMELLIA CITY COMMUNICATIOI	D	THOMSON	GA	LIC	0.25	265	285	0	76.5	0
1345471	6485	BLH-20091216ACT	WGFG	COMMUNITY BROADCASTERS, L	C3	BRANCHVILLE	SC	LIC	12.5	193.6	287	2	83.7	0
1711984	139935	BLFT-20151215AEN	W288CX	CAPSTAR TX, LLC	D	COLUMBIA	SC	LIC	0.25	266	288	3	84.8	0
696386	19472	BLH-20031030AAR	WNOK	CAPSTAR TX, LLC	C1	COLUMBIA	SC	LIC	90	419	284	1	98.7	0
1693094	198616	BLH-20151015AFY	WSGC-FM	GEORGIA-CAROLINA RADIOCAS	A	TIGNALL	GA	LIC	6	242	287	2	110.7	0



Facility id: 150411;  
Area of Interference;

