

[Exhibit 13]

## **Non-Interference Compliance**

Regarding Facility id 149348

Channel 226

### **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 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 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 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>
187082	BLH19930607KA	WKKZ	149	100
Minimum F(50,50) Contour of Adjacent Station within Proposed Translator's Standard Interfering Contour				<b>100</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 **100 dBμ**, this makes the proposed translator's worst-case interfering contour **140 dBμ**. By the free-space equation, this contour is calculated to extend a maximum of **11.1 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:** NIC  
**Antenna Model:** BKG77  
**CORAGL:** 79 m  
**Maximum ERP:** 0.25 kW  
**Interfering Contour:** 140 dBμ  
**Max Int. Contour Distance:** 11.1 m

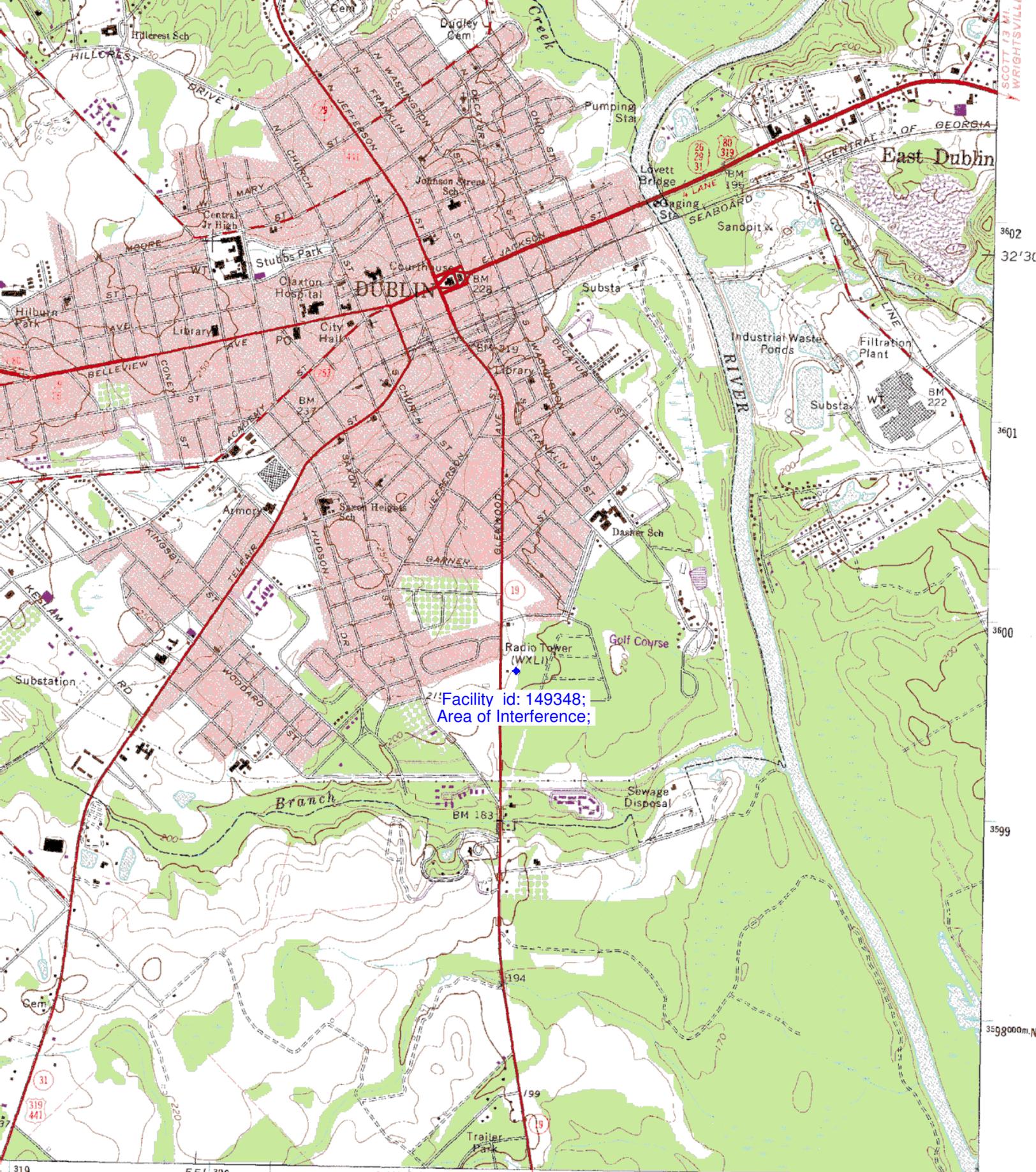
## Adjacent Channel Study For Station W223BT, Facility\_id: 149348

### Co-channel through third adjacent:

App_id	Fac_id	File_Number	Call	Licensee	Class	City	State	Status	ERP	RCAMSL	Chan	Adj	Dist	Overlap
187082	34942	BLH-19930607KA	WKKZ	KIRBY BROADCASTING COMPANY	C2	DUBLIN	GA	LIC	50	203	224	2	0.1	1.4918
1383432	170969	BLED-20100701AUC	WZAE	RADIO TRAINING NETWORK, INC.	A	WADLEY	GA	LIC	4	127.4	227	1	59	0
602557	52551	BLH-20020529ABR	WPEZ	CUMULUS LICENSING LLC	C1	JEFFERSONVILLE	GA	LIC	100	321	229	3	67.2	0
1538906	170973	BLH-20130124AAK	WWKM	GEORGIA EAGLE MEDIA, INC.	A	ROCHELLE	GA	LIC	4.7	176	226	0	81.2	0
252696	3234	BLFT-19970829TF	W223AF	AUGUSTARADIO FELLOWSHIP INSTITUTE, INC	D	MILLEN	GA	LIC	0.038	124	223	3	97	0
1487986	145113	BLFT-20120216AAO	W229AJ	RADIO ASSIST MINISTRY, INC.	D	CLAXTON	GA	LIC	0.25	128	229	3	101.8	0
251988	17129	BLH-19970811KB	WCHZ-FM	WCHZ LICENSE, LLC	A	WARRENTON	GA	LIC	4.1	268	226	0	111.8	0
1424413	166071	BNPH-20060309ADH	NEW	ACE RADIO CORPORATION	A	WAYNESBORO	GA	CP	5	164	225	1	113.4	0
1505806	30658	BLH-20120713ACY	WVOH-FM	BROADCAST SOUTH, LLC	C2	NICHOLLS	GA	LIC	50	198.2	228	2	117	0
422005	50535	BLH-19990913AAW	WKZZ	BROADCAST SOUTH, LLC	C3	TIFTON	GA	LIC	20.5	196	223	3	117.9	0
1097380	71366	BLH-20051201CGX	WEAS-FM	CUMULUS LICENSING LLC	C1	SPRINGFIELD	GA	LIC	96.64	303.7	226	0	155.9	0

### Intermediate Frequencies (53 and 54 channels difference):

App_id	Fac_id	File_Number	Call	Licensee	Class	City	State	Status	ERP	RCAMSL	Channel	Adj	Dist	Clr
282809	72466	BLH-19990315KC	WVKX	WILKINSON BROADCASTING, INC.	A	IRWINTON	GA	LIC	6	200	279	53	47.9	37.9
1561110	141571	BNPFT-20030310AFG	NEW	CLYDE SCOTT, JR.	D	MACON	GA	APP	0.25	121	280	54	75.6	65.6
219036	67693	BLH-19960122KE	WQXZ	GEORGIA EAGLE MEDIA, INC.	C3	HAWKINSVILLE	GA	LIC	10.5	248	280	54	79.2	67.2
204164	73247	BMLH-19941118KF	WBMZ	WM. JIMMY PAGE, TR/AS RADIO METTER	A	METTER	GA	APP	6	160	279	53	81.6	71.6



Facility id: 149348;  
Area of Interference;

1 MILE  
7000 FEET  
1 KILOMETER

1 MI. TO INTERSTATE 16

ROAD CLASSIFICATION

Primary highway, hard surface	Light-duty road, hard or improved surface
Secondary highway, hard surface	Unimproved road

  Interstate Route   
   U. S. Route   
   State Route

Interior Geological Survey, Reston, Virginia - 1988

Dublin, GA; Scale: 1" = 0.379Mi 610Mt 2,000Ft, 1 Mi = 2.640" , 1 cm = 240Mt



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