

## **Non-Interference Compliance**

Regarding Facility id 154939

Channel 245

### **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 building near the zone of predicted interference is the unoccupied communications building at the base of the transmit tower, 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
1240705	BLH20080325AHU	KLZK	100	124.8
273583	BLH19980903KA	KLLL-FM	118.4	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 **7 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").

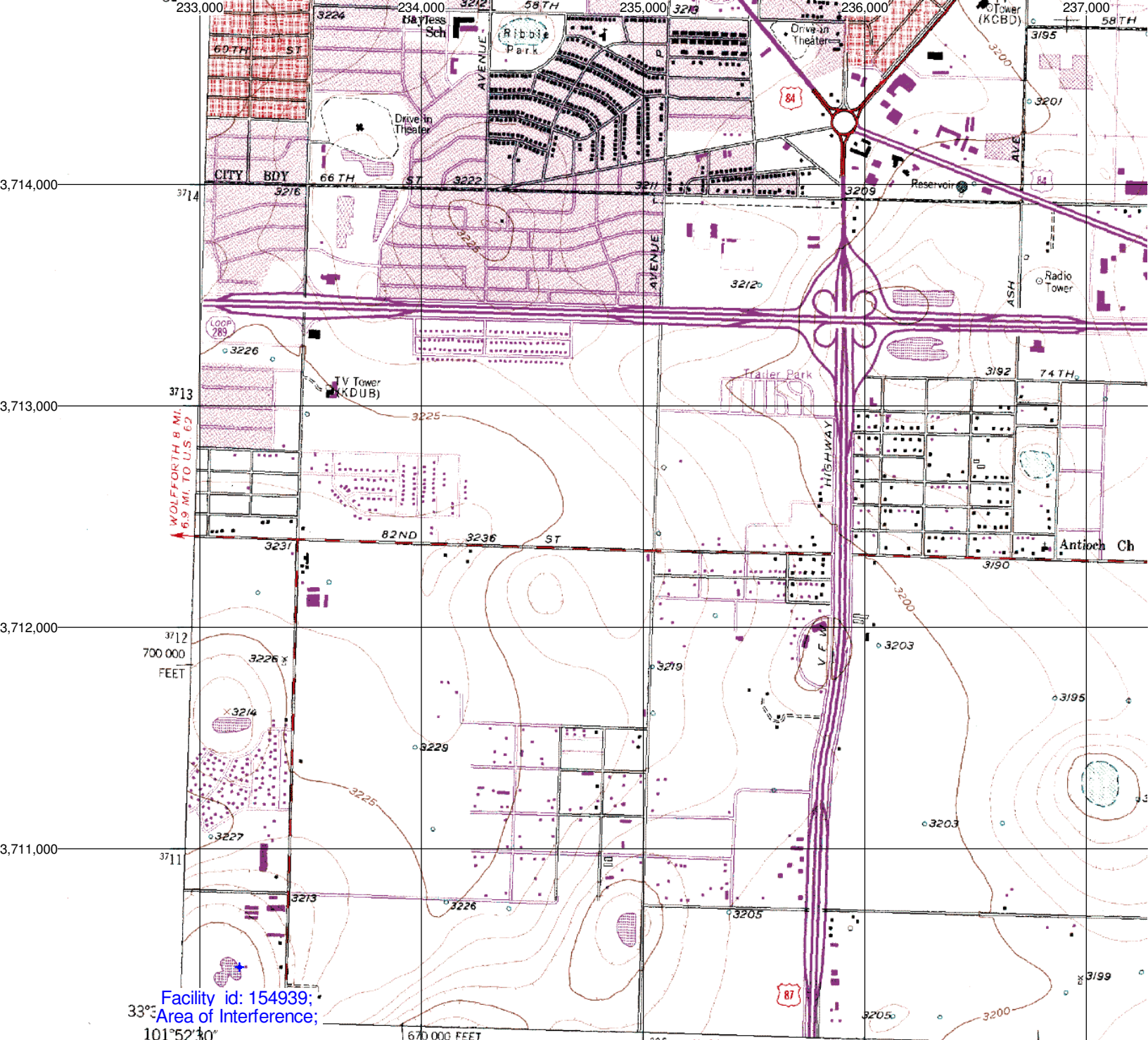
**Note: The only building near the zone of predicted interference is the unoccupied communications building at the base of the transmit tower, so a lack of population has been demonstrated within the area of interference and this application is therefore in full compliance with 47 C.F.R. § 74.1204.**

**Antenna Manufacturer:** SHI  
**Antenna Model:** 6832-3  
**CORAGL:** 210 m  
**Maximum ERP:** 0.099 kW  
**Interfering Contour:** 140 dBμ  
**Max Int. Contour Distance:** 7 m

# **Adjacent Channel Study** **For Station K246BT, Facility\_id: 154939**

## **Co-channel through third adjacent:**

Application_id	Facility_id	Prefix	ARN	Call	Licensee	Class	City	State	Status	ERP	RCAMSL	Channel	Adj	Dist	Overlap
1240705	54684	BLH	20080325AHU	KLZK	RAMAR COMMUNICATIONS, INC.	C2	NEW DEAL	TX	LIC	30.5	1168	247	2	0	0.5908
1237892	54684	BSTA	20080312ADI	KLZK	RAMAR COMMUNICATIONS, INC.	C1	NEW DEAL	TX	APP	1	1206	247	2	0	0.5908
292210	36954	Null	Null	KLLI-FM	WILKS LICENSE COMPANY-LUBBOCK LLC	C1	LUBBOCK	TX	USE	0	0	242	3	2.2	0.5908
273583	36954	BLH	19980903KA	KLLI-FM	WILKS LICENSE COMPANY-LUBBOCK LLC	C1	LUBBOCK	TX	LIC	100	1224	242	3	2.3	0.5908
1289648	171014	Null	Null	NEW	KM COMMUNICATIONS, INC.	C2	MATADOR	TX	USE	0	0	244	1	90.6	0
1289332	171014	BNPH	20070502ABZ	NEW	KM COMMUNICATIONS, INC.	C2	MATADOR	TX	CP	36	1085	244	1	90.6	0
1050213	0	RM	11226	Null		C2	DENVER CITY	TX	VAC	0	0	248	3	120.1	0
1357965	184956	BNPED	20100225AAB	NEW	OASIS OF FAITH, INC	C2	DENVER CITY	TX	APP	50	1266	248	3	120.8	0
292488	65306	Null	Null	KMCM	DOUBLE O TEXAS CORPORATION	C1	ODESSA	TX	USE	0	0	245	0	162.1	0
1132915	65306	BLH	20060613ACA	KMCM	DOUBLE O TEXAS CORPORATION	C1	ODESSA	TX	LIC	100	1025	245	0	162.2	0
1243429	162373	BLH	20080417AAS	KKNM	TEJAS BROADCASTING, LLP	C2	BOVINA	TX	LIC	50	1432	243	2	164.9	0



Facility id: 154939;  
Area of Interference;  
33° 101°52'30"

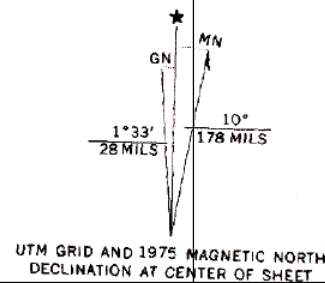
Mapped, edited, and published by the Geological Survey  
Control by USGS and NOS/NOAA

Culture and drainage in part compiled from aerial photographs  
taken 1954. Topography from planetable surveys 1957

Polyconic projection. 1927 North American datum  
10,000-foot grid based on Texas coordinate system,  
north central zone  
1000-meter Universal Transverse Mercator grid ticks,  
zone 14, shown in blue

Red tint indicates area in which only  
landmark buildings are shown

Revisions shown in purple compiled from aerial photographs  
taken 1970 and 1975. This information not field checked  
Purple tint indicates extension of urban areas



FOR S.



