

[Exhibit 13]

Non-Interference Compliance

Regarding Facility id 150152

Channel 300

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 a high resolution aerial photo of the vicinity surrounding the proposed translator's tower site provided by Google Earth. The proposed transmit site and the zone of interference have been identified on the map. It has been included to provide clarification of the nature of the buildings in the vicinity.

Note: The zone of predicted interference extends 13.5 m from the proposed transmit site. The nearest building is 21m to the southeast, 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
267101	BLH19980518KB	KJKJ	94.3	94.3
	Minimum F(50,50) Contour of Adjacent Station within Proposed Translator's Standard Interfering Contour			94.3

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 **94.3 dBμ**, this makes the proposed translator's worst-case interfering contour **134.3 dBμ**. By the free-space equation, this contour is calculated to extend a maximum of **13.5 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).

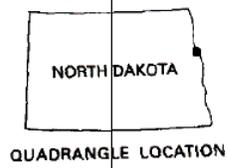
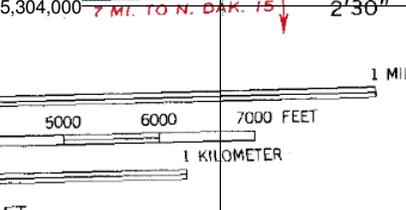
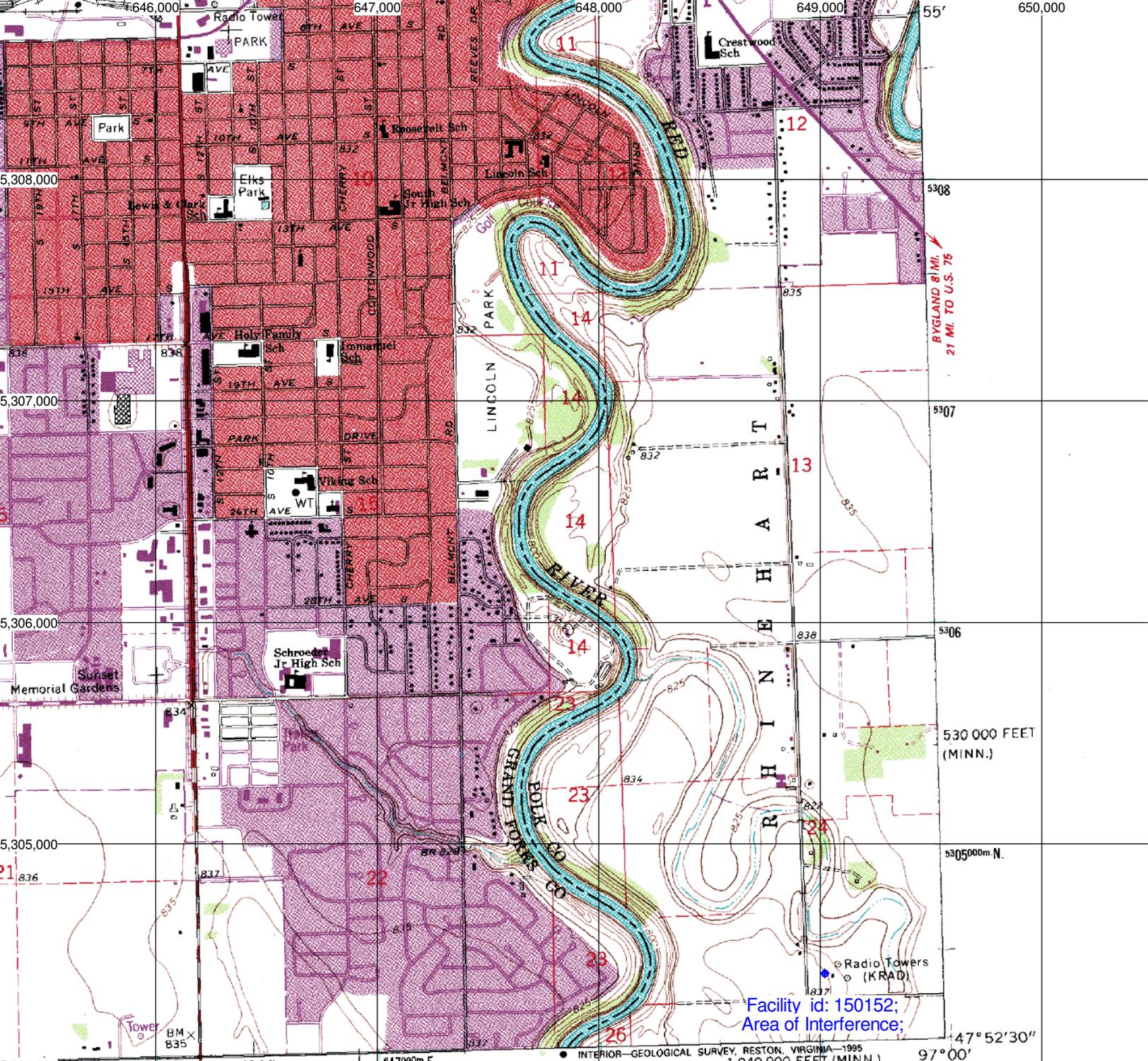
Note: The zone of predicted interference extends 13.5 m from the proposed transmit site. The nearest building is 21m to the southeast, so a lack of population has been demonstrated within the area of interference and this application is therefore in full compliance with 47 C.F.R. § 74.1204.

Antenna Manufacturer: ERI
Antenna Model: 100-1
CORAGL: 43 m
Maximum ERP: 0.099 kW
Interfering Contour: 134.3 dBμ
Max Int. Contour Distance: 13.5 m

Adjacent Channel Study
For Station K300BG, Facility_id: 150152

Co-channel through third adjacent:

Application_id	Facility_id	Prefix	ARN	Call	Licensee	Class	City	State	Status	ERP	RCAMSL	Channel	Adj	Dist	Overlap
267101	35012	BLH	19980518KB	KJKJ	CITICASTERS LICENSES, INC.	C1	GRAND FORKS	ND	LIC	100	391	298	2	9.7	0.5908
1180653	150140	BLFT	20070405ACB	K300AS	SHINE THE LIGHT, INC	D	THIEF RIVER FALLS	MN	LIC	0.25	379	300	0	66.2	0



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

Revisions shown in purple compiled in cooperation with State of Minnesota agencies from aerial photographs taken 1991-92 other sources. This information not field checked. Map edited 1994

Information shown in purple may not meet USGS content standards and may conflict with previously mapped contours

Purple tint indicates extension of urban areas

GRAND FORKS, ND-MN
 47097-H1-TF-024
 1963
 REVISED 1994
 DMA 6579 I NE-SERIES V871

150152 - Proposed 134.3 dBu

Image © 2010 DigitalGlobe
© 2010 Google

US Census Bureau

47°52'38.80" N 97°00'26.08" W elev 254 m

©2010 Google™

Eye alt 912 m

116 m

Imagery Date: Nov 13, 2002