

Non-Interference Compliance

Regarding Facility id 141545

Channel 295

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.

Application_id	File Number	Callsign	Contour at Tower	Min. Contour
1666481	BLFT20150105ABA	W292DJ	100	100
560514	BLH20010413AAL	WGCI-FM	64.9	64.9
Minimum F(50,50) Contour of Adjacent Station within Proposed Translator's Standard Interfering Contour				64.9

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 **64.9 dBμ**, this makes the proposed translator's worst-case interfering contour **104.9 dBμ**. By the free-space equation, this contour is calculated to extend a maximum of **39.9 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").

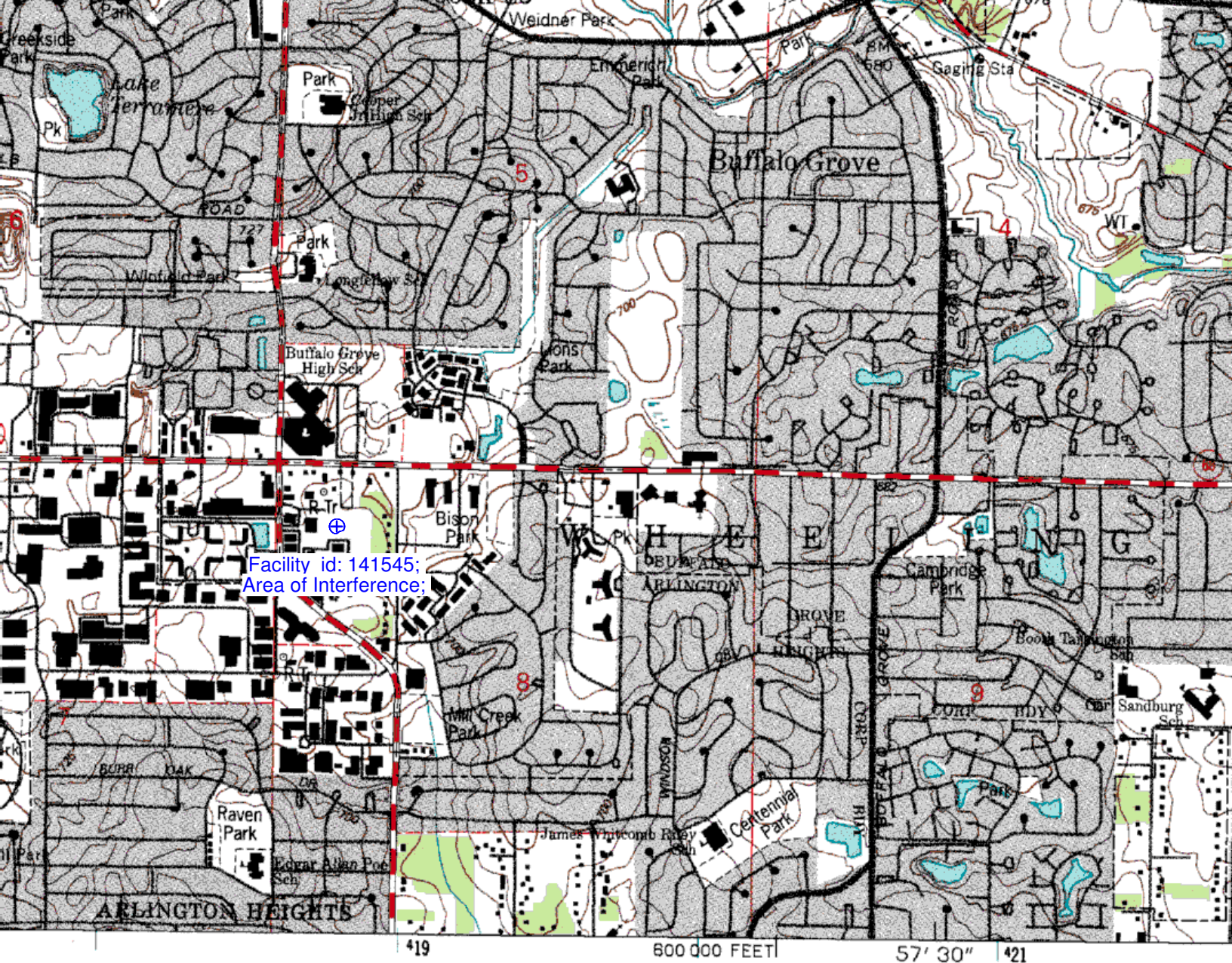
Note: The only structure within the zone of predicted interference is an unoccupied communications building so a lack of population has been demonstrated within the area of interference and this application is therefore in full compliance with 47 C.F.R. § 74.1204.

Antenna Manufacturer:	ERI
Antenna Model:	LPX-3E-HW
CORAGL:	116 m
Maximum ERP:	0.001 kW
Interfering Contour:	104.9 dBμ
Max Int. Contour Distance:	39.9 m

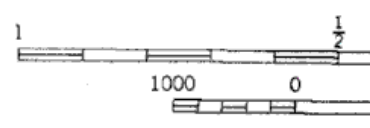
Adjacent Channel Study **For Station W292DJ, Facility_id: 141545**

Co-channel through third adjacent:

App_id	Fac_id	File_Number	Call	Licensee	Class	City	State	Status	ERP	RCMSL	Chan	Adj	Dist	Overlap
287983	25053	BLH-19990818KA	WPPN	UNIVISION RADIO LICENSE CORPORATION	B	DES PLAINES	IL	LIC	50	347	294	1	0	151.167
560514	51165	BLH-20010413AAL	WGCI-FM	AMFM BROADCASTING LICENSES, LLC	B	CHICAGO	IL	LIC	3.7	653	298	3	40.6	0.0615
1681514	192383	BMPL-20150630ABC	WCXP-LP	CHICAGO INDEPENDENT RADIO PROJECT	L1	CHICAGO	IL	CP MOD	0	227	296	1	31.7	0
1722563	157668	BPFT-20160129AXY	W300CQ	POLNET COMMUNICATIONS, LTD.	D	VERNON HILLS	IL	CP	0.07	307	296	1	36.4	0
619799	21202	BLH-20021203ACD	WYRB	DONTRON, INC.	A	GENOA	IL	LIC	3.8	380	292	3	69.7	0
921085	6590	BLH-20031219AAA	WSRB	DONTRON, INC.	A	LANSING	IL	LIC	4.1	309	292	3	71.8	0
1621395	48247	BLH-20140122ABB	WSPY-FM	NELSON ENTERPRISES, INC.	A	PLANO	IL	LIC	3.1	348	296	1	71.9	0
151684	24442	BLH-19900817KC	WSJY	NRG LICENSE SUB, LLC	B	FORT ATKINSON	WI	LIC	26	474	297	2	114.8	0



by the United States Geological Survey
 USGS, NOS/NOAA, and Cook County Highway Department
 by photogrammetric methods from aerial photographs
 . Topography by planetable surveys 1926. Revised from aerial
 s taken 1989. Field checked 1992. Map edited 1993.





30 yds

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