

Non-Interference Compliance

Regarding Facility id 154012

Channel 279

Description of Exhibit 12 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.

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
152062	BLH19900904KB	WAKG	72.5	72.4
Minimum F(50,50) Contour of Adjacent Station within Proposed Translator's Standard Interfering Contour				72.4

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 **72.4 dBμ**, this makes the proposed translator's worst-case interfering contour **112.4 dBμ**. By the free-space equation, this contour is calculated to extend a maximum of **53.2 m** from the transmit antenna.

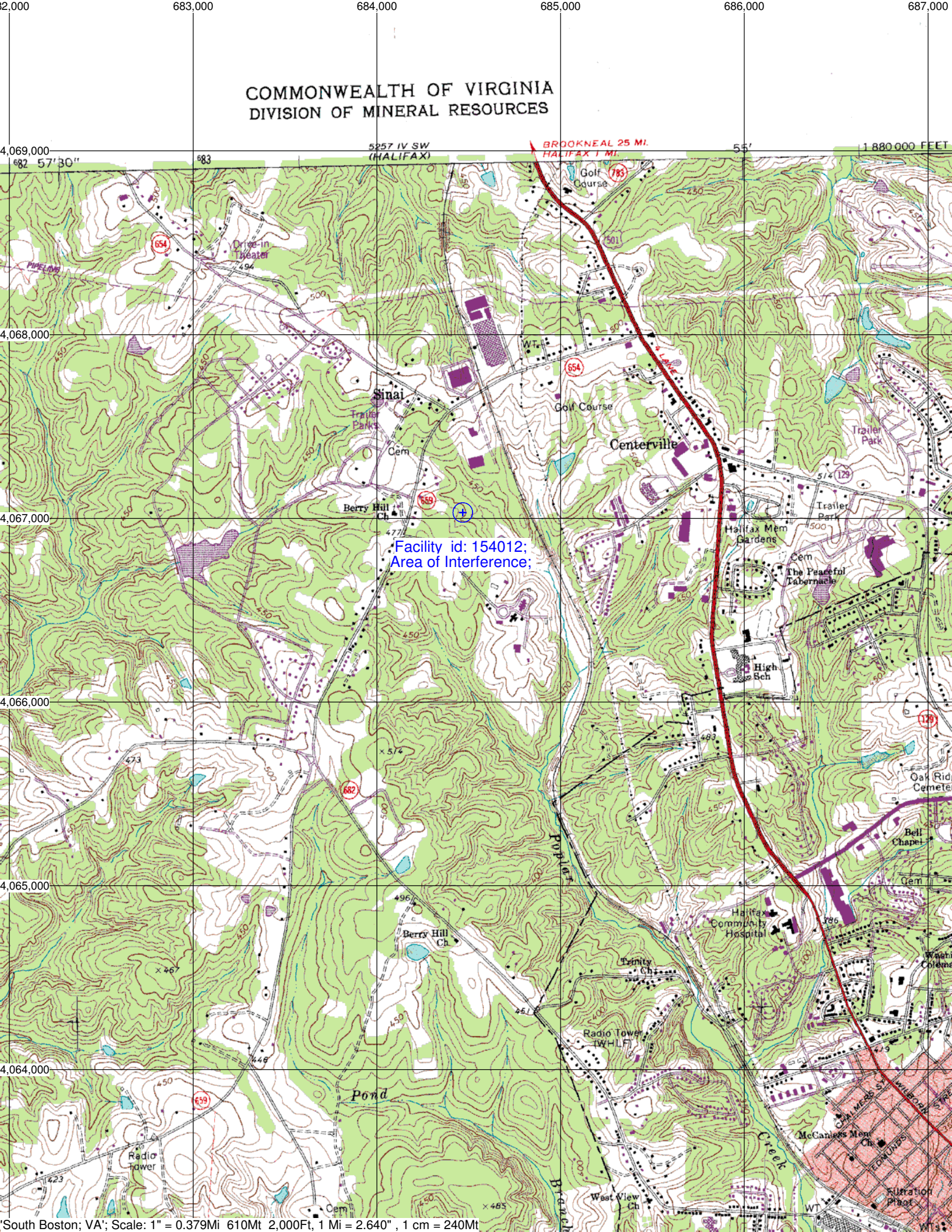
The interfering contour of the proposed translator was calculated for 120 radials and plotted on the pertinent portion of a USGS quadrangle (page 4 of this exhibit). As demonstrated on the quadrangle, there are no populated structures or highways within the area of interference (Note: FCC 02-244 at Section 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), 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: 146 m
Maximum ERP: 0.01 kW
Interfering Contour: 112.4 dBμ
Max Int. Contour Distance: 53.2 m

Adjacent Channel Study
For Station W279AN, Facility_id: 154012

Co-channel through third adjacent:

Application_id	Facility_id	Prefix	ARN	Call	Licensee	Class	City	State	Status	ERP	RCAMSL	Channel	Adj	Dist	Overlap
152062	52545	BLH	19900904KB	WAKG	PIEDMONT BROADCASTING CORPORATION	C1	DANVILLE	VA	LIC	100	410	277	2	40.2	0.0597
681859	152725	BNPFT	20030826ABA	W281AE	EDGEWATER BROADCASTING, INC.	D	ROXBORO	NC	CP	0.01	363	281	2	39.3	0
1173376	154006	BMPFT	20070216AAN	W279AO	EDGEWATER BROADCASTING INC.	D	DANVILLE	VA	CP MOD	0.027	223	279	0	45.5	0
1118033	79178	BPFT	20060309AAP	W280DB	POSITIVE ALTERNATIVE RADIO, INC.	D	LYNCHBURG	VA	CP	0.01	430	280	1	71.6	0
256512	79178	BLFT	19971106TB	W280DB	POSITIVE ALTERNATIVE RADIO, INC.	D	LYNCHBURG	VA	LIC	0.01	425	280	1	71.6	0
1169228	28340	BPH	20060918ABK	WXCF-FM	WVJT, LLC	A	RUSTBURG	VA	APP	6	298	280	1	74.5	0
680369	140512	BNPFT	20030829AVN	W281AO	CAPSTAR TX LIMITED PARTNERSHIP	D	MONETA	VA	CP	0.007	681	281	2	90.1	0
541815	7305	BLH	20001218AAE	WWDW	MAINQUAD BROADCASTING, INC.	A	ALBERTA	VA	LIC	2.2	255	276	3	94	0
145011	24931	BLH	19900209KD	WFXK	CLEAR CHANNEL RADIO LICENSES, INC.	C1	TARBORO	NC	LIC	100	375	282	3	109.8	0
218297	58392	BLH	19960111KD	WTQR	CLEAR CHANNEL RADIO LICENSES, INC.	C	WINSTON-SALEM	NC	LIC	100	763	281	2	134.7	0
1069436	58392	BXLH	20050627ACF	WTQR	CLEAR CHANNEL BROADCASTING LICENSES, INC	C	WINSTON-SALEM	NC	LIC	45	763	281	2	134.8	0
63170	37230	BLH	19831117BF	WMXB	CAPSTAR TX LIMITED PARTNERSHIP	B	RICHMOND	VA	LIC	20	325	279	0	148.1	0



COMMONWEALTH OF VIRGINIA
DIVISION OF MINERAL RESOURCES

4,069,000 683 5257 IV SW (HALIFAX) 55' 1,880,000 FEET

4,068,000 682 57'30"

4,067,000

4,066,000

4,065,000

4,064,000

4,063,000

4,062,000

4,061,000

4,060,000

4,059,000

4,058,000

4,057,000

4,056,000

4,055,000

4,054,000

4,053,000

4,052,000

4,051,000

4,050,000

4,049,000

4,048,000

4,047,000

4,046,000

4,045,000

4,044,000

4,043,000

4,042,000

4,041,000

4,040,000

4,039,000

4,038,000

4,037,000

4,036,000

4,035,000

4,034,000

4,033,000

4,032,000

4,031,000

4,030,000

4,029,000

4,028,000

4,027,000

4,026,000

4,025,000