

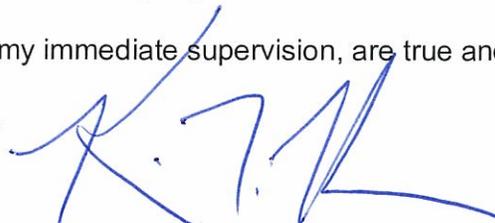
ENGINEERING STATEMENT

The engineering data contained herein have been prepared on behalf of FAITH BROADCASTING NETWORK, INC., licensee of Class A LPTV station WBNF-CA, Channel 15 in Buffalo, New York, in support of this Application for Construction Permit to specify digital operation on Channel 15 from the licensed WBNF-CA site, as a flashcut proposal. No change in site location, antenna model, antenna height or effective radiated power is proposed herein.

It is proposed to utilize the present Andrew directional antenna, which is mounted at the 168-meter level of an existing 339-meter communications tower. Exhibit B is a map upon which the predicted service contours are plotted. It is important to note that the proposed 51 dBu contour encompasses the station's city of license. Operating parameters for the proposed facility are tabulated in Exhibit C. An interference study is provided in Exhibit D, and a power density calculation follows as Exhibit E.

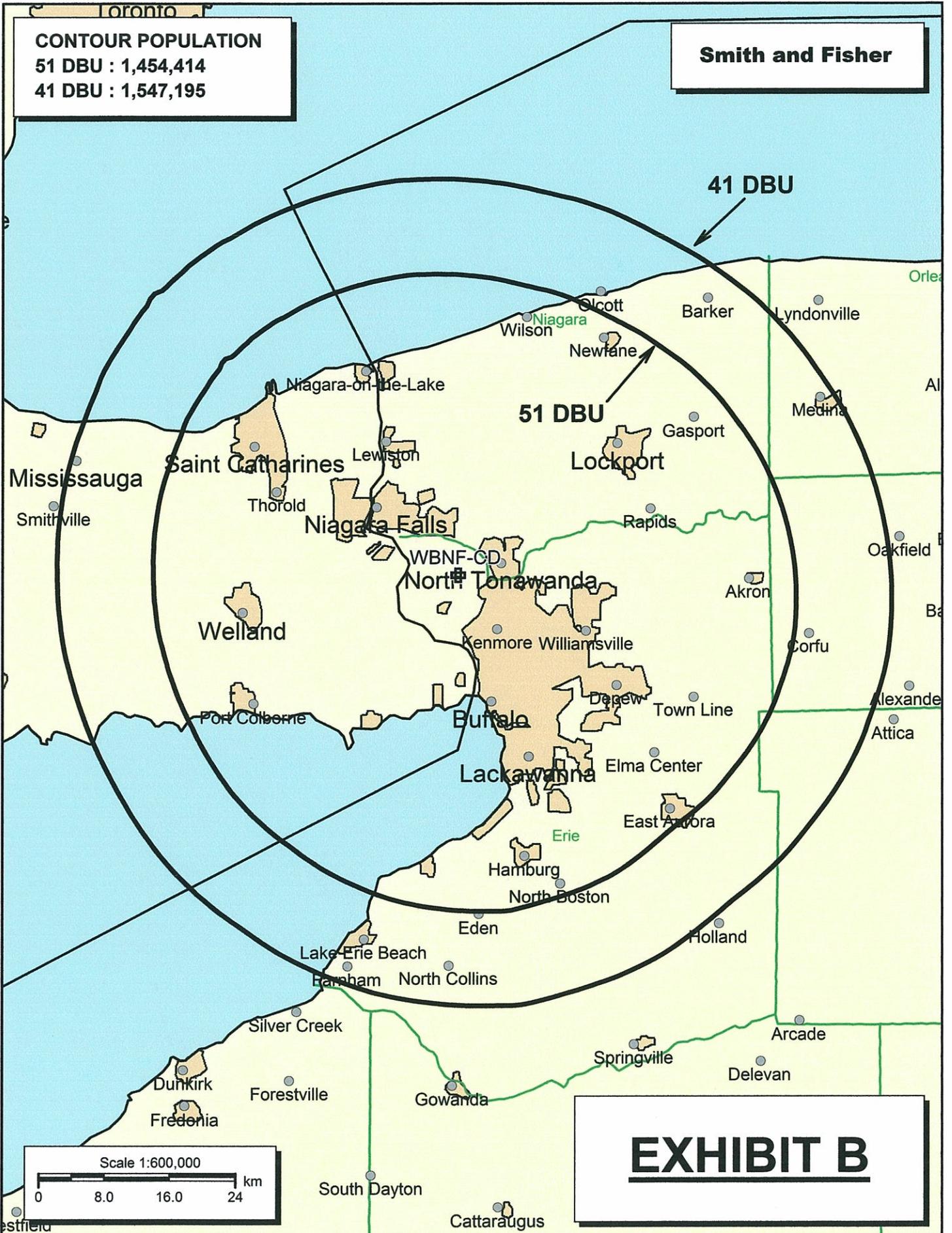
Because no change in the overall height or location of the existing tower is proposed, the FAA has not been notified of this application. The FCC issued Antenna Structure Registration Number 1019110 to this tower.

I declare under penalty of perjury that the foregoing statements and the attached exhibits, which were prepared by me or under my immediate supervision, are true and correct to the best of my knowledge and belief.



KEVIN T. FISHER

May 5, 2009



PROPOSED OPERATING PARAMETERS

PROPOSED WBNF-CD
CHANNEL 15 – BUFFALO, NEW YORK

Transmitter Power Output:	0.4 kw
Transmission Line Efficiency:	53.9%
Antenna Power Gain – Toward Horizon:	21.48
Antenna Power Gain – Main Lobe:	21.48
Effective Radiated Power – Toward Horizon:	4.6 kw
Effective Radiated Power – Main Lobe:	4.6 kw
Transmitter Make and Model:	Type-accepted
Rated Output	0.4 kw
Transmission Line Make and Model:	Andrew HJ7-50A
Size and Type:	1-5/8" air heliax
Length:	575 feet*
Antenna Make and Model:	Andrew ALP12L2-HSOC
Orientation	140° T
Beam Tilt	0.5 degrees
Radiation Center Above Ground:	168 meters
Radiation Center Above Mean Sea Level:	347 meters

*estimated

LONGLEY-RICE INTERFERENCE STUDIES
PROPOSED WBNF-CD
CHANNEL 15 – BUFFALO, NEW YORK

We conducted a detailed interference study using the Longley-Rice methodology contained in the Commission's *OET Bulletin No. 69*, with respect to all facilities of concern. The software utilizes a 1-square kilometer cell size, calculates signal strength at 1.0 kilometer increments along each radial studied, and employs the 1990 U.S. Census to count population within cells. In addition, the program does not attribute interference to the proposed facility in cells within the protected contour of the station under study where interference from another source (other than proposed WBNF-CD) already is predicted to exist (also known as "masking"). The results of this study are provided in Exhibit D-2. It concludes that the facility proposed herein causes no significant new interference to any of the potentially affected stations.

As a result, it is believed that the proposed WBNF-CD facility complies with the requirements of Sections 74.709, 74.793(e), 74.793(f), 74.793(g), 74.793(h), 74.794(b) and 73.1030 of the Commission's Rules.

Summary Study

1990 Census data selected
TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 04-29-2009 Time: 15:38:54

Record Selected for Analysis

WBNF-CD USERRECORD-01 BUFFALO NY US
 Channel 15 ERP 9.2 kW HAAT 168. m RCAMSL 00347 m STRINGENT MASK
 Latitude 043-01-32 Longitude 0078-55-43
 Status APP Zone 1 Border
 Dir Antenna Make usr Model USRPAT01 Beam tilt N Ref Azimuth
 140.
 Last update Cutoff date Docket
 Comments
 Applicant

Cell Size for Service Analysis 1.0 km/side

Distance Increments for Longley-Rice Analysis 1.00 km

Not full service station

Facility meets maximum power limit

Azimuth (Deg)	ERP (kW)	HAAT (m)	51.0 dBu F(50,90) (km)
0.0	3.571	162.8	40.2
45.0	3.881	168.5	41.0
90.0	6.979	175.3	44.5
135.0	9.145	149.3	44.2
180.0	7.702	167.8	44.5
225.0	4.399	170.7	41.8
270.0	3.401	171.5	40.5
315.0	4.179	175.2	41.8

Contour Overlap to Proposed Station

Contour Overlap Evaluation to Proposed Station Complete

LANDMOBILE SPACING VIOLATIONS FOUND

NONE

Proposed facility OK to FCC Monitoring Stations

Proposed facility OK toward West Virginia quite zone

Proposed facility OK toward Table Mountain

Proposed facility is within the Canadian coordination distance
 Distance to border = 7.9km

Proposed facility is beyond the Mexican coordination distance

Proposed station is OK toward AM broadcast stations

Start of Interference Analysis

Channel	Proposed Station	Call	City/State	ARN
15	WBNF-CD		BUFFALO NY	USERRECORD01

Stations Potentially Affected by Proposed Station

Chan No.	Call	City/State	Dist(km)	Status	Application	Ref.
14	WFBT	BATH NY	160.6	CP MOD	BMPCDT	-
20090327	AEF					
14	WFBT	BATH NY	160.7	CP	BPCT	-
19870331	LLW					
14	WUTV	BUFFALO NY	0.0	LIC	BLCDT	-
20060829	BGK					
15	WDCQ-TV	BAD AXE MI	387.1	LIC	BLEDT	-
20030922	ABG					
15	WNYA-CA	ALBANY NY	404.3	CP	BPTTA	-
20040309	ABH					
15	WNYA-CA	ALBANY NY	404.3	LIC	BLTTA	-
20030903	ABN					
15	WNYA-CA	ALBANY NY	404.3	CP MOD	BMPDTA	-
20081017	AHE					
15	WTKO-LP	ONEIDA NY	264.9	LIC	BLTT	-
20000302	AAT					
15	WISF-LP	ONEONTA NY	321.4	LIC	BLTTL	-
19900425	JZ					
15	WSPX-TV	SYRACUSE NY	235.4	CP	BPCDT	-
20080305	ABH					
15	WEWS-TV	CLEVELAND OH	294.0	CP MOD	BMPCDT	-
20080620	AGC					
15	WEWS-TV	CLEVELAND OH	294.0	LIC	BLCDT	-
20020304	ACC					
15	WPSU-TV	CLEARFIELD PA	215.3	CP MOD	BMPEDT	-
20030527	ADP					
15	W15CO-D	TOWANDA PA	250.4	CP	BPTT	-
20050920	AAX					
15	W15CO-D	TOWANDA PA	250.4	LIC	BLDTT	-
20081125	AUS					
16	W16BE	HORNELL, ALFRED NY	135.4	LIC	BLTTL	-
19981217	JE					
16	WXXI-TV	ROCHESTER NY	109.8	LIC	BLEDT	-
20030916	ABS					
16	WSEE-TV	ERIE PA	138.5	CP MOD	BMPCDT	-
20050216	ACD					
17	WNED-TV	BUFFALO NY	0.8	LIC	BLET	-
19870206	KE					
18	W32DH-D	ERIE PA	133.0	CP	BNPTTL	-
20000830	BKE					
23	WNLO	BUFFALO NY	0.8	LIC	BMLCT	-

20001221ABI

Study of this proposal found the following interference problem(s):

NONE.

POWER DENSITY CALCULATION
PROPOSED WBNF-CD
CHANNEL 15 – BUFFALO, NEW YORK

Since the FCC considers the possible biological effects of RF transmissions in its environmental determinations, we have studied the matter with respect to this Buffalo facility. Employing the methods set forth in *OET Bulletin No. 65* and considering a main-lobe effective radiated power of 4.6 kw, an antenna radiation center 168 meters above ground, and the vertical pattern of the Andrew antenna, maximum power density two meters above ground of 0.00023 mw/cm^2 is calculated to occur 51 meters southeast of the base of the tower. Since this is less than 0.1 percent of the 0.32 mw/cm^2 reference for uncontrolled environments (areas with public access) surrounding a facility operating on Channel 15 (476-482 MHz), this proposal may be excluded from consideration with respect to public exposure to nonionizing electromagnetic radiation.

Further, the station owner will take whatever precautionary steps are necessary, such as reducing power or leaving the air temporarily, to ensure that workers operating in the vicinity of the antenna are not exposed to excessive nonionizing radiation.