

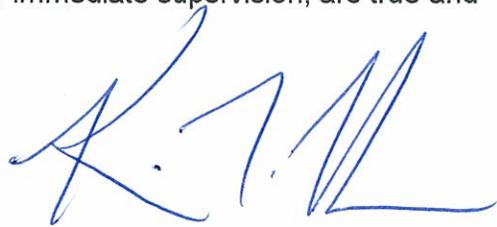
ENGINEERING STATEMENT

The engineering data contained herein have been prepared on behalf of CABLE AD NET NEW YORK, INC., licensee of Low Power Television Station WYBN-LP on Channel 57 in Cobleskill, New York, in support of this amendment to its Application for Construction Permit BDISDTL-20090617ACH, a displacement proposal specifying digital operation on Channel 14 from a new site. This amendment seeks to eliminate the need for a waiver of the Commission's Rules with respect to protection of the Land Mobile allotment on Channel 14 in New York City. It is proposed herein to operate with a new directional antenna. No change in site location, antenna height or effective radiated power is proposed herein.

It is now proposed to mount an MCI directional antenna at the 25-meter level of an existing 35-meter communications tower. Exhibit B is a map upon which the predicted 51 dBu service contour is plotted. It is important to note that the proposed 51 dBu contour encompasses a significant portion of the Grade A contour that obtains from the licensed analog WYBN-LP facility, as shown in Exhibit C. Operating parameters for the proposed facility are tabulated in Exhibit D. An interference study is provided in Exhibit E, and a power density calculation follows as Exhibit F.

Because no change in the overall height or location of the existing tower is proposed, the FAA has not been notified of this application. Due to the diminutive height of the tower and its proximity to the nearest airport runway, FCC antenna structure registration is not required. This conclusion is supported by the Commission's TOWAIR program.

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.

A handwritten signature in blue ink, appearing to read 'K. T. Fisher', with a stylized, cursive-like script.

KEVIN T. FISHER

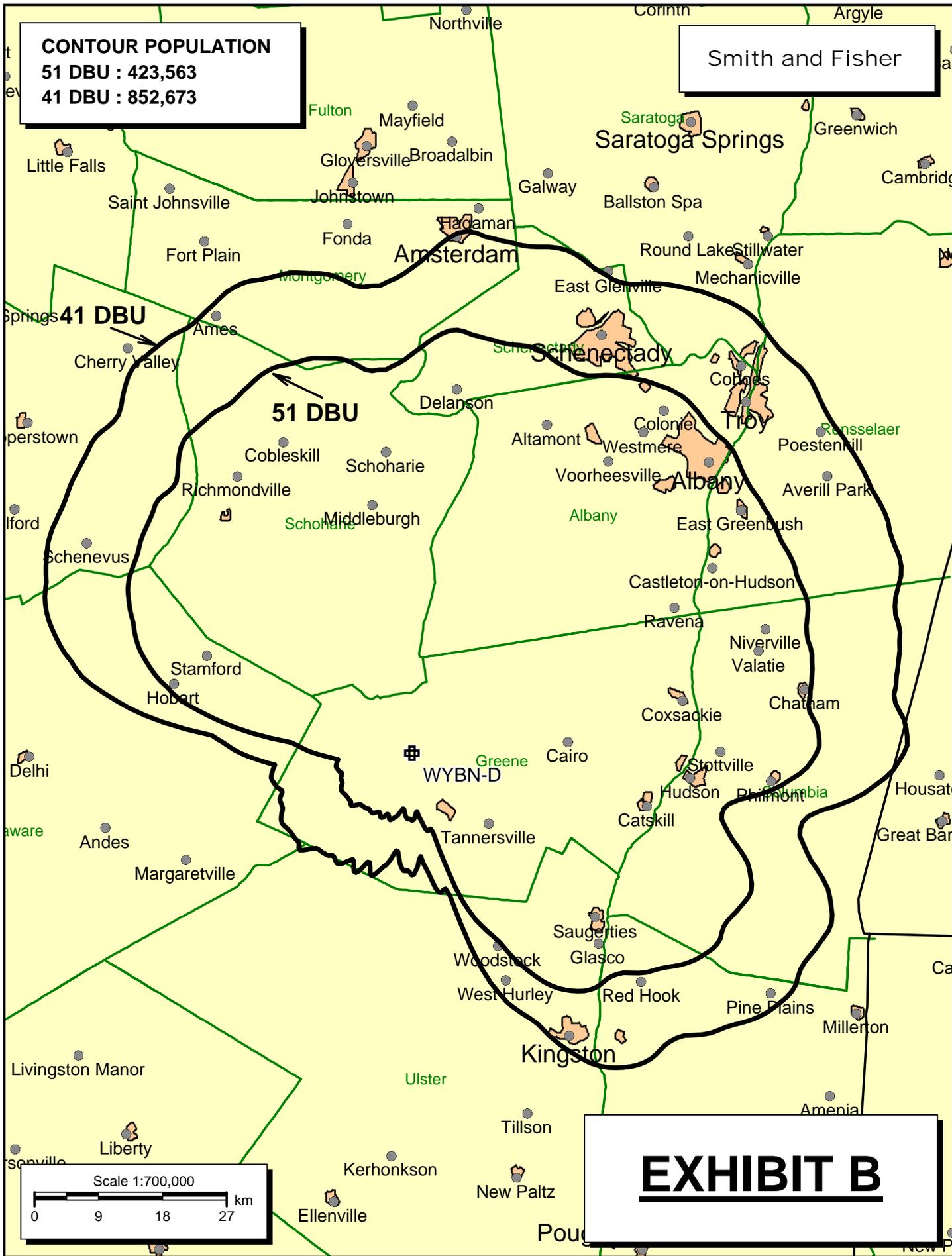
February 5, 2010

**CONTOUR POPULATION**

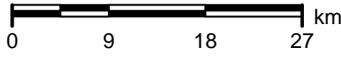
**51 DBU : 423,563**

**41 DBU : 852,673**

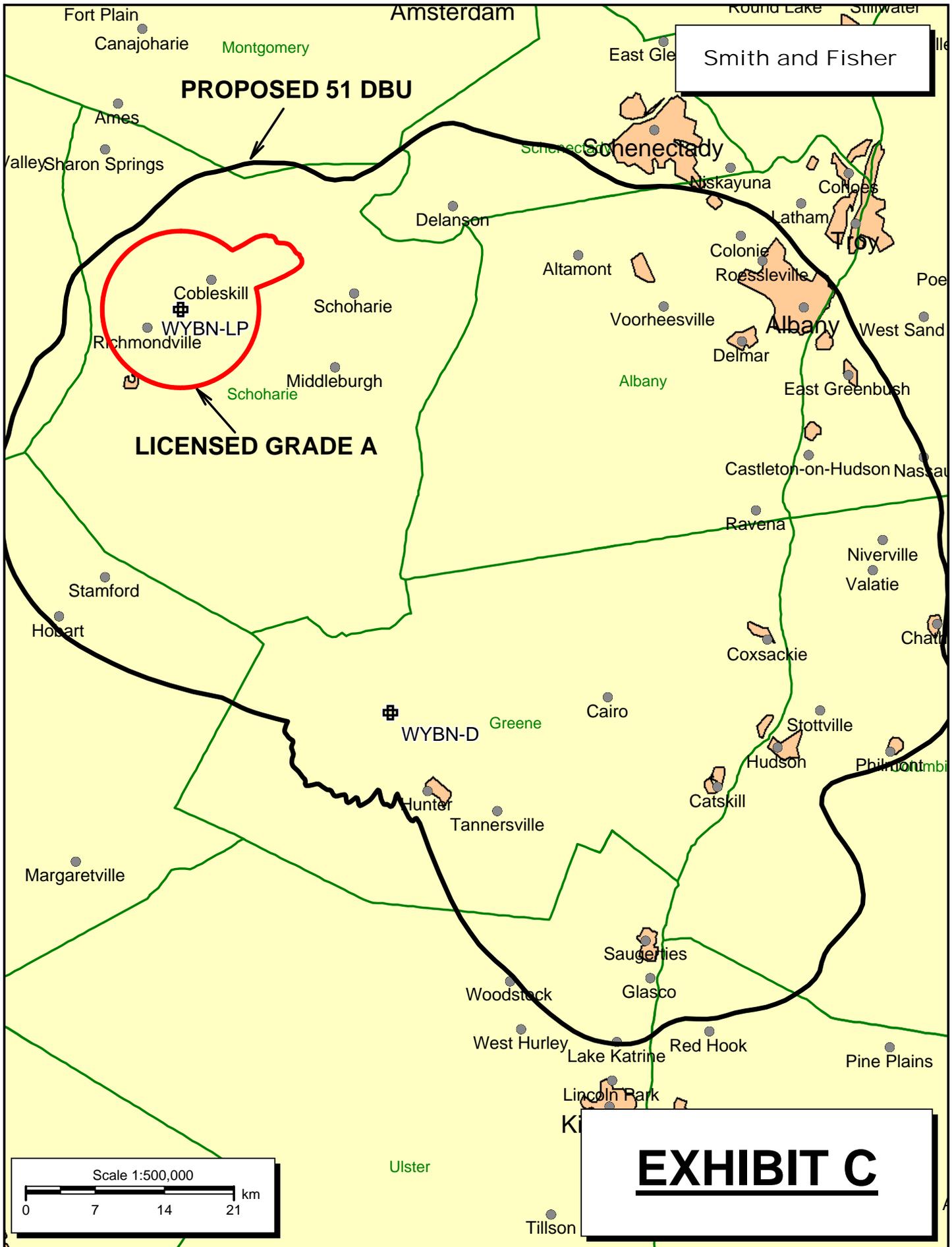
Smith and Fisher



Scale 1:700,000



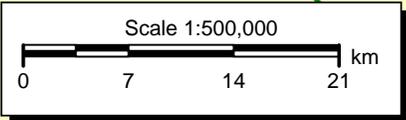
**EXHIBIT B**



Smith and Fisher

LICENSED GRADE A

EXHIBIT C



PROPOSED OPERATING PARAMETERS

PROPOSED WYBN-LD  
CHANNEL 14 – COBLESKILL, NEW YORK  
[AMENDMENT TO BDISDTL-20090617ACH]

Transmitter Power Output:	0.67 kw
Transmission Line Efficiency:	88.3%
Antenna Power Gain – Toward Horizon:	25.2
Antenna Power Gain – Main Lobe:	25.2
Effective Radiated Power – Toward Horizon:	15.0 kw
Effective Radiated Power – Main Lobe:	15.0 kw
Transmitter Make and Model:	Type-accepted
Transmission Line Make and Model:	Andrew LDF7-50A
Size and Type:	1-5/8" foam heliax
Length:	110 feet*
Antenna Make and Model:	MCI 955314
Orientation	40° **
Beam Tilt	0.5 degrees
Radiation Center Above Ground:	25 meters
Radiation Center Above Mean Sea Level:	942 meters

\*estimated

\*\*line of symmetry

LONGLEY-RICE INTERFERENCE STUDY  
PROPOSED WYBN-LD  
CHANNEL 14 – COBLESKILL, NEW YORK  
[AMENDMENT TO BDISDTL-20090617ACH]

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 2000 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 that proposed by WYBN-LD) already is predicted to exist (also known as "masking"). The results of this study are provided in Exhibit E-2. It concludes that the facility proposed herein causes no significant new interference to any of the potentially affected stations. In addition, the proposed facility fully protects the Land Mobile assignment on Channel 14 in New York City.

As a result, it is believed that the proposed WYBN-LP facility complies with the requirements of Sections 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

Census data selected: 2000

Post DTV Transition Database Selected

TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 02-02-2010 Time: 13:16:55

Record Selected for Analysis

WYBNNEW USERRECORD-01 COBLESKILL NY US  
 Channel 14 ERP 15. kW HAAT 327. m RCAMSL 00942 m STRINGENT MASK  
 Latitude 042-17-06 Longitude 0074-15-54  
 Status APP Zone 1 Border  
 Dir Antenna Make usr Model USRPAT01 Beam tilt N Ref Azimuth  
 355.  
 Last update Cutoff date Docket  
 Comments  
 Applicant

Cell Size for Service Analysis 1.0 km/side

Distance Increments for Longley-Rice Analysis 0.10 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	14.216	314.8	55.9
45.0	12.204	469.6	62.2
90.0	14.509	321.9	56.4
135.0	2.143	272.9	43.6
180.0	0.002	261.9	9.5
225.0	0.002	306.9	10.1
270.0	0.004	342.8	13.4
315.0	4.637	323.8	50.4

Contour Overlap to Proposed Station

Station  
 WNYA-CA 15 ALBANY NY BLTTA20030903ABN

Station inside contour of Digital LPTV station  
 WYBNNEW 14 COBLESKILL NY USERRECORD01

Contour Overlap Evaluation to Proposed Station Complete

LANDMOBILE SPACING VIOLATIONS FOUND

To NEW YORK NY Channel 14 from Channel 14  
 Required separation 250.0 km Actual 171.9 km Short 78.1 km

To NEW YORK NY Channel 15 from Channel 14  
 Required separation 176.0 km Actual 171.9 km Short 4.1 km  
 Proposed facility OK to FCC Monitoring Stations

Proposed facility OK toward West Virginia quiet zone

Proposed facility OK toward Table Mountain

Proposed facility is within the Canadian coordination distance  
 Distance to border = 255.0km

Proposed facility is beyond the Mexican coordination distance

Proposed station is OK toward AM broadcast stations

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Start of Interference Analysis

	Proposed Station		
Channel	Call	City/State	ARN
14	WYBNNEW	COBLESKILL NY	USERRECORD01

Stations Potentially Affected by Proposed Station

Chan No.	Call	City/State	Dist (km)	Status	Application	Ref.
14	W14CM	DOVER DE	359.6	LIC	BLTT	-
20010803AAR						
14	WTSD-CA	WILMINGTON DE	262.3	LIC	BLTTA	-
20041206AAM						
14	W14DA	HARPSWELL ME	389.7	LIC	BLTTL	-
20090319ACP						
14	WFBT	BATH NY	243.1	CP MOD	BMPCDT	-
20090327AEF						
14	WUTV	BUFFALO NY	390.0	LIC	BLCDT	-
20060829BGK						
14	W14BU	MASSENA NY	295.3	LIC	BLTTL	-
19950822IM						
14	WPTZ	NORTH POLE NY	275.1	LIC	BLCDT	-
20070116ACW						
14	WSTQ-LP	SYRACUSE NY	177.6	LIC	BLTTL	-
20030604ABA						
14	W14CO-D	CLARKS SUMMIT, ETC. PA	148.7	LIC	BLDTT	-
20090810AAA						
14	W12CA	ELLIOTTSBURG PA	328.7	CP	BDISDTL	-
20090626ADB						
14	WTSD-CA	PHILADELPHIA PA	312.7	APP	BSTA	-
20070531AEA						
14	WTSD-CA	PHILADELPHIA PA	262.3	APP	BSTA	-
20060626AAQ						
14	W14CK	NEWPORT VT	325.0	LIC	BLTTL	-
19980601FG						
15	WNYA-CA	ALBANY NY	44.9	CP MOD	BMPDTA	-
20081017AHE						

15	WNYA-CA	ALBANY NY	44.9	APP	BDISDTA	-
20080610	ACK					
15	WNYA-CA	ALBANY NY	44.9	LIC	BLTTA	-
20030903	ABN					
15	WTKO-LP	ONEIDA NY	143.8	LIC	BLTT	-
20000302	AAT					
15	WISF-LP	ONEONTA NY	68.5	LIC	BLTTL	-
19900425	JZ					
15	WSPX-TV	SYRACUSE NY	184.5	APP	BMPCDT	-
20080620	AIU					
15	WSPX-TV	SYRACUSE NY	184.5	CP	BPCDT	-
20080305	ABH					
15	WSPX-TV	SYRACUSE NY	184.5	APP	BMPCDT	-
20080620	AIU					
15	W15CO-D	TOWANDA PA	195.1	LIC	BLDFT	-
20081125	AUS					
16	W16AX	ITHACA NY	184.0	LIC	BLTTL	-
20001220	AABE					
17	W17CD	STAMFORD CT	148.5	LIC	BLTTL	-
20070201	BSO					
17	W17CI	CLAREMONT NH	195.5	LIC	BLTTA	-
20020826	ABL					
17	DW44BC	BRENTWOOD NY	190.0	APP	BMPTTL	-
19960517	UQ					
17	WEBR-CD	MANHATTAN NY	172.4	LIC	BLTTL	-
19960116	JC					
18	W18BN	SCRANTON PA	123.4	LIC	BLTTL	-
19981228	JB					
21	WSSN-LP	HUDSON ET AL NY	35.3	LIC	BLTTL	-
20050915	AAI					
21	W21CQ	BENNINGTON VT	101.7	LIC	BLTTL	-
20061201	AAG					
21	W21CN	WINDSOR VT	195.8	LIC	BLTTL	-
20061108	AAS					
22	W22BN	DANBURY CT	121.0	LIC	BLTTL	-
19940912	JB					
22	WTVU-LP	SYRACUSE NY	177.6	APP	BSTA	-
20061027	AHC					
22	WTVU-LP	SYRACUSE NY	177.6	LIC	BLTTL	-
19990816	JB					

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

NONE.

POWER DENSITY CALCULATION  
PROPOSED WYBN-LD  
CHANNEL 14 – COBLESKILL, NEW YORK  
[AMENDMENT TO BDISDTL-20090617ACH]

Since the FCC considers the possible biological effects of RF transmissions in its environmental determinations, we have studied the matter with respect to this Cobleskill facility. Employing the methods set forth in *OET Bulletin No. 65* and considering a main-lobe effective radiated power of 15 kw, an antenna radiation center 25 meters above ground, and the vertical pattern of the MCI antenna, maximum power density two meters above ground of  $0.0028 \text{ mw/cm}^2$  is calculated to occur 12 meters north and east of the base of the tower. Since this is only 0.9 percent of the  $0.31 \text{ mw/cm}^2$  reference for uncontrolled environments (areas with public access) surrounding a facility operating on Channel 14 (470-476 MHz), a grant of this proposal may be considered a minor environmental action 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.