

ENGINEERING STATEMENT

The engineering data contained herein have been prepared on behalf of ADULLAM GOSPEL CHURCH, licensee of Low Power Television Station WUCB-LP, Channel 41 in Cobleskill, New York, in support of this request for Special Temporary Authority to operate with the digital flashcut facility authorized in BDFCDTL-20100430AE, but at half the effective radiated power until the new transmitter is delivered to the station. No change in site location, antenna make/model, or antenna height is proposed herein.

It is proposed to utilize the existing ERI directional antenna, which is mounted at the 96-meter level of an existing 101-meter communications tower. Exhibit B is a map upon which the predicted service contours are plotted. It is important to note that the newly proposed 51 dBu contour continues to encompass a significant portion of the Grade A contour that obtains from the licensed analog WUCB-LP facility. Operating parameters for the proposed facility are tabulated in Exhibit C. Since the service contour of the proposed STA facility is completely contained within that authorized to WUCB-LD in BDFCDTL-20100430AE, no interference study is attached hereto. A power density calculation is included as Exhibit D.

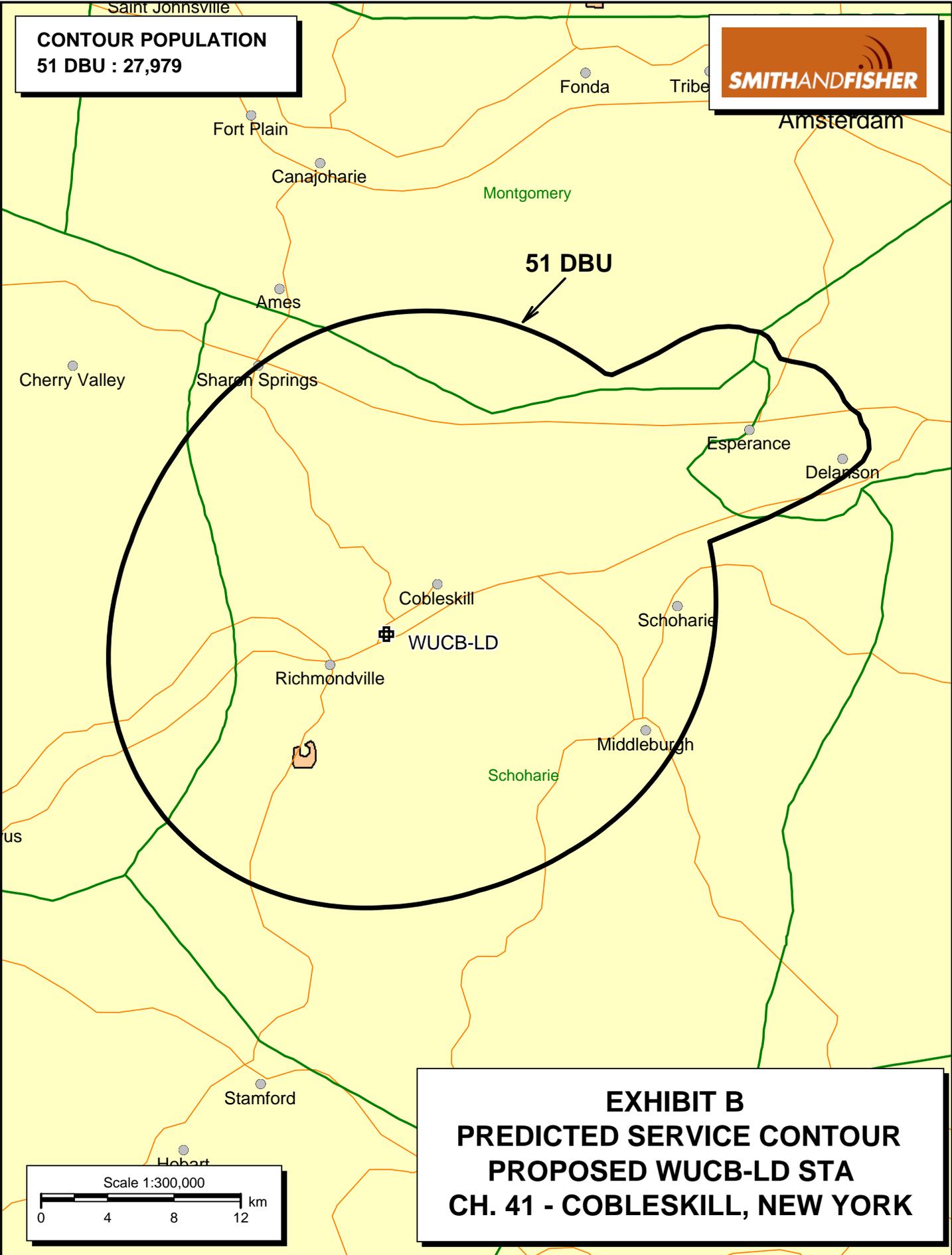
Because no change in the overall height or location of the existing tower is proposed, the FAA has not been notified of this application. The FCC issued Antenna Structure Registration Number 1010829 to this tower.

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.

July 18, 2011

KEVIN T. FISHER

**CONTOUR POPULATION**  
**51 DBU : 27,979**



**EXHIBIT B**  
**PREDICTED SERVICE CONTOUR**  
**PROPOSED WUCB-LD STA**  
**CH. 41 - COBLESKILL, NEW YORK**

PROPOSED OPERATING PARAMETERS

PROPOSED WUCB-LD STA  
CHANNEL 41 – COBLESKILL, NEW YORK

Transmitter Power Output:	0.25 kw
Transmission Line Efficiency:	65.3%
Antenna Power Gain – Toward Horizon:	14.06
Antenna Power Gain – Main Lobe:	14.06
Effective Radiated Power – Toward Horizon:	2.3 kw
Effective Radiated Power – Main Lobe:	2.3 kw
Transmitter Make and Model:	Type-accepted
Rated Output	0.25 kw
Transmission Line Make and Model:	Andrew HJ7-50A
Size and Type:	1-5/8" air heliax
Length:	340 feet
Antenna Make and Model:	Andrew AL8
Orientation	50°T
Beam Tilt	1.75 degrees
Effective Height Above Ground:	96 meters
Effective Height Above Mean Sea Level:	386 meters

POWER DENSITY CALCULATION  
PROPOSED WUCB-LD STA  
CHANNEL 41 – COBLESKILL, 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 Cobleskill facility. Employing the methods set forth in OET Bulletin No. 65 and considering a main-lobe effective radiated power of 2.3 kw, an antenna radiation center of 96 meters above ground, and the vertical pattern of the Andrew (ERI) antenna, maximum power density two meters above ground of  $0.00025 \text{ mw/cm}^2$  is calculated to occur 38 meters northeast of the base of the tower. Since this is less than 0.1 percent of the  $0.42 \text{ mw/cm}^2$  reference for uncontrolled environments (areas with public access) surrounding a facility operating on Channel 41 (632-638 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.