

ENGINEERING STATEMENT

The engineering data contained herein have been prepared on behalf of STEVEN J. TOCCO, in support of his modification to Construction Permit BNPDTL-20100723AAA for a new digital low power television station on Channel 16 in Clarksburg, West Virginia. In it we propose to reduce power and specify a directional antenna.

It is proposed to mount a standard ERI omnidirectional antenna at the 15-meter level of an existing 85-meter communications tower. Exhibit B is a map upon which the predicted service contours are plotted. Operating parameters for the proposed facility are tabulated in Exhibit C. It is important to note that the proposed Grade A contour encompasses a significant portion of that which obtains from the licensed WUSV-LD facility. Since the contour of the proposed STA facility is completely contained within that of the permitted facility, an interference study is not required. A power density calculation is included as Exhibit D.

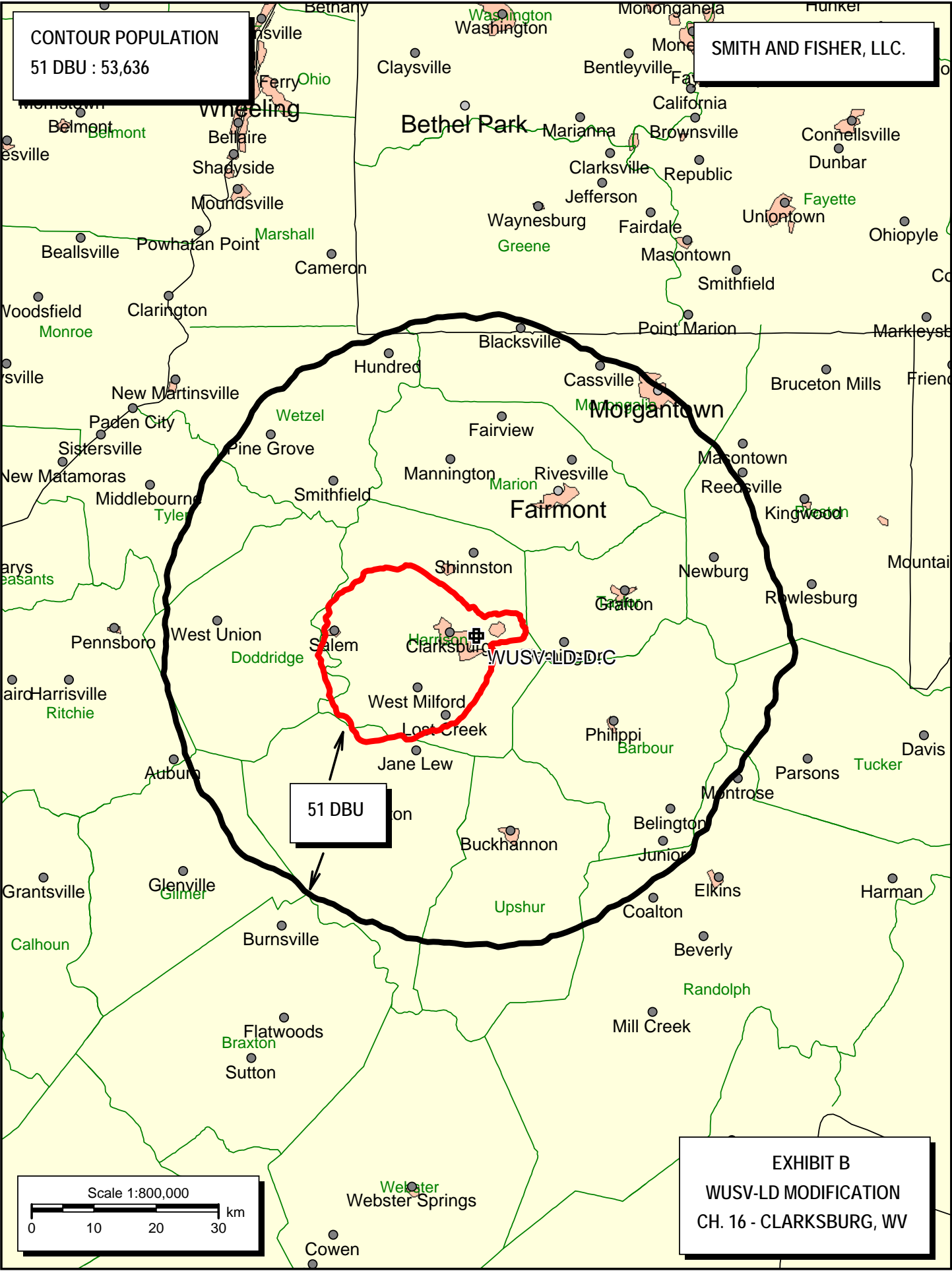
Because no change in the overall height or location of the existing tower is proposed, the FAA has not been notified of this application. The FCC issued Antenna Structure Registration Number 1226149 to this tower.

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.



KYLE T. FISHER

May 13, 2014



PROPOSED OPERATING PARAMETERS

PROPOSED DIGITAL LOW POWER TELEVISION STATION
CHANNEL 16 – CLARKSBURG, WEST VIRGINIA
[MODIFICATION TO BNPDTL-20100723AAA]

Transmitter Power Output:	0.025 kw
Transmission Line Efficiency:	86.9%
Antenna Power Gain – Toward Horizon:	12.60
Antenna Power Gain – Main Lobe:	12.60
Effective Radiated Power – Toward Horizon:	0.27
Effective Radiated Power – Main Lobe:	0.27

Transmitter Make and Model:	Type-accepted
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Transmission Line Make and Model: Commscope AVA5-50

Size and Type:	7/8" air heliax
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Length:	75 feet*
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Antenna Make and Model:	Scala K723141
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Orientation	255 degrees
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Beam Tilt	none
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Radiation Center Above Ground:	53.3 meters
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Radiation Center Above Mean Sea Level:	530.3 meters
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*Estimated

POWER DENSITY CALCULATION

PROPOSED DIGITAL LOW POWER TELEVISION STATION
CHANNEL 16 – CLARKSBURG, WEST VIRGINIA
[MODIFICATION TO BNPDTL-20100723AAA]

Since the FCC considers the possible biological effects of RF transmissions in its environmental determinations, we have studied the matter with respect to this Clarksburg facility. Employing the methods set forth in *OET Bulletin No. 65* and considering a main-lobe effective radiated power of 0.27 kw, an antenna radiation center 15 meters above ground, and the vertical pattern of the ERI antenna, maximum power density two meters above ground of 0.0017 mw/cm^2 is calculated to occur 8 meters from the base of the tower. Since this is only 0.5 percent of the 0.33 mw/cm^2 reference for uncontrolled environments (areas with public access) surrounding a facility operating on Channel 16 (482-488 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.