

Engineering statement
WRNB (FM)
Media, Pennsylvania
Facility ID 25079
Channel 262, 100.3 MHz
Class B

Upon completion of construction of WRNB facility in accordance with the terms of the construction permit (File number 0000197898), the technical provisions of the application, the rules and regulations and the applicable engineering standards, WRNB licensee Radio One Licenses, LLC files this application for license on FCC Form 2100, Schedule 302-FM requesting authority to commence program test operations at full power.

Pursuant to FCC rule § 73.1620 (a) (2):

1. WRNB is operating the directional antenna at one-half (50%) of the authorized effective radiated power.
2. This application for license contains the exhibits called for by conditions on the construction permit.

Licensee and applicant certify the transmitter power output (TPO) produces the authorized effective radiated power of 12.5 kW, calculated as follows:

$$\text{TPO} = \text{Effective Radiated Power} / \text{Antenna power gain} * \text{Efficiency of Transmission Line System}$$

WRNB system:

Effective Radiated Power= 12.5 kW

Antenna power gain= 1.788

Efficiency of Transmission Line System= 0.699

Thus:

$$12.5/1.788*0.699= 10.0015 \text{ kW TPO}$$

Calculated TPO of 10.0015 kW rounded to 10.0 kW pursuant to § 73.212

Antenna orientation:

Antenna was orientated as specified in manufacturer's installation instructions. Surveyor measured the "surveyor's orientation" described in the installation instructions.

Greg Strickland



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May 1, 2023