

**MODIFY BNPFT-20030825AJJ**  
**POSITIVE ALTERNATIVE RADIO, INC.**  
**W243BS FM TRANSLATOR STATION**  
**CH 243D - 96.5 MHZ - 0.027 KW**  
**FREDERICKSBURG, VIRGINIA**  
**February 2007**

**EXHIBIT B**

**Radio Frequency Assessment**

A study has been made to determine whether this proposal is in compliance with 47 C.F.R. §1.1307 of the Commission's rules and with OET Bulletin #65, dated August 1997 ("Bulletin"), regarding human exposure to radio frequency radiation in the vicinity of broadcast towers. This study considers all nearby contributing stations and utilizes the appropriate formulas contained in the OET Bulletin.<sup>1</sup>

The proposed W243BS antenna system will be mounted with its center of radiation 24.6 meters (80.7 feet) above the ground at the tower location and will operate with an effective radiated power of 0.027 kilowatt (27.0 watts) in the horizontal and vertical planes (circularly polarized). The antenna system is to be mounted on a pole, located atop a building in Fredericksburg, Virginia. The antenna will be mounted 4.5 meters (14.8 feet) above the roof. As the top of the roof is the closest anyone could be with respect to the antenna, it will be considered the worst case distance. At 2.0 meters, the height of an average person above the roof, at the base of the pole, the proposed W243BS antenna system will contribute 0.1724

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1) The contributions of the FM stations were calculated with the FMModel program. The EPA single bay dipole antenna was used for calculations unless otherwise noted.

mw/cm<sup>2</sup>.<sup>2</sup> Based on exposure limitations for a controlled environment, 17.2% of the allowable ANSI limit is reached at 2.0 meters above the ground at the base of the tower. For uncontrolled environments, 86.2% of the ANSI limit is reached at 2.0 meters above the ground at the base of the tower.

Since this level is far below the 100% limit defined by the Commission, the proposed W243BS facility is believed to be in compliance with the radio frequency radiation exposure limits as required by the Federal Communications Commission. Further, PAR will post warning signs in the vicinity of the antenna pole, located on the roof, warning of potential radio frequency radiation hazards at the site. In addition, PAR will reduce the power of the proposed facility or cease operation, in cooperation and coordination with other building/roof users, as necessary, to protect persons having access to the site, tower or antenna from radio frequency radiation in excess of FCC guidelines.

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2) This level occurs at 1.0 meter out from the base of the tower and is considered worst case.