

AMEND BMPH-20070802ABX
COMMONWEALTH BROADCASTING, LLC
WUSH (FM) RADIO STATION
CH 291B1 - 106.1 MHZ - 11.0 KW
POQUOSON, VIRGINIA
January 2008

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, specifically the co-located TV stations WGBS-LP, WJGN-CA, and WJHJ-LP, and utilizes the appropriate formulas contained in the OET Bulletin.¹

The proposed WUSH antenna system will be mounted with its center of radiation 146.6 meters (481.0 feet) above the ground at the tower location and operates with an effective radiated power of 11.0 kilowatts in the horizontal and vertical planes (circularly polarized). At 2.0 meters above the ground at the base of the tower, the height of an average person, the WUSH antenna system will contribute 0.0212 mw/cm².² Based on exposure limitations for a controlled environment, 2.1% of the allowable ANSI limit is reached at 2.0 meters above the ground at the base of the tower. For uncontrolled environments, 10.6% of the ANSI limit is reached at 2.0 meters above the ground at the base of the tower.

-
- 1) The contributions of the FM facilities were calculated using the FMModel program. A single bay EPA dipole antenna was used for calculation purposes. In cases where the number of bays of the antenna was known, this data was used in the FMModel program.
 - 2) This field occurs at a distance of 39.0 meters out from the base of the tower and is considered worst case.

The WGBS-LP, Channel 7-, antenna system is mounted with its center of radiation 117.0 meters (383.9 feet) above the ground at the tower location and operates with an effective radiated power of 2.5 kilowatts in the horizontal plane. At 2.0 meters above the ground at the base of the tower, the height of an average person, the WGBS-LP antenna system will contribute 0.0038 mw/cm². Based on exposure limitations for a controlled environment, 0.4% of the allowable ANSI limit is reached at 2.0 meters above the ground at the base of the tower. For uncontrolled environments, 1.9% of the ANSI limit is reached at 2.0 meters above the ground at the base of the tower.

The WJGN-CA, Channel 5+, antenna system is mounted with its center of radiation 107.0 meters (351.0 feet) above the ground at the tower location and operates with an effective radiated power of 3.0 kilowatts in the horizontal plane. At 2.0 meters above the ground at the base of the tower, the height of an average person, the WJGN-CA antenna system will contribute 0.0055 mw/cm². Based on exposure limitations for a controlled environment, 0.5% of the allowable ANSI limit is reached at 2.0 meters above the ground at the base of the tower. For uncontrolled environments, 2.7% of the ANSI limit is reached at 2.0 meters above the ground at the base of the tower.

The WJHJ-LP, Channel 39+, antenna system is mounted with its center of radiation 115.8 meters (380.0 feet) above the ground at the tower location and operates with an effective radiated power of 150.0 kilowatts in the horizontal plane. At 2.0 meters above the ground at the base of

the tower, the height of an average person, the WJHJ-LP antenna system will contribute 0.2399 mw/cm². Based on exposure limitations for a controlled environment, 11.6% of the allowable ANSI limit is reached at 2.0 meters above the ground at the base of the tower. For uncontrolled environments, 58.0% of the ANSI limit is reached at 2.0 meters above the ground at the base of the tower.

Combining the contributions of the WUSH, WGBS-LP, WJGN-CA, and WJHJ-LP, a total of 73.2% of the limit is reached 2.0 meters above the ground at the base of the tower at the fence perimeter. Since the contribution level for the tower site is below the 100% limit defined by the Commission, the WUSH antenna system is believed to be in compliance with the radio frequency radiation exposure limits, as required by the Federal Communications Commission. Further, CBL has posted warning signs in the vicinity of the tower warning of potential radio frequency radiation hazards at the site. In addition, CBL will reduce the power of the facility or cease operation in cooperation and coordination with other tower users, as necessary, to protect persons having access to the site, tower, or antenna from radio frequency radiation in excess of FCC guidelines.