

**MODIFY BPH-20020314AAM**  
**STYLES MEDIA GROUP, INC.**  
**WVVE (FM) RADIO STATION**  
**CH 261C3 - 100.1 MHZ - 12.0 KW (DA)**  
**PANAMA CITY BEACH, FLORIDA**  
**May 2003**

**EXHIBIT B**

**Radio Frequency and Environmental 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 stations and utilizes the appropriate formulas contained in the Bulletin.

**Environmental Analysis**

The proposed WVVE tower does not involve the use of high intensity white lighting (strobes) in a residential neighborhood. The structure is not located in an officially designated wilderness area or wildlife preserve, nor does it threaten the existence or habitat of endangered species. The facility does not affect districts, sites, buildings, structures or objects significant in American history, architecture, archaeology, engineering or culture that are listed in the National Register of Historic Places, or are eligible for listing, nor does it affect Indian religious sites. Further, the site is not located in a floodplain and did not, to the knowledge of the applicant, require significant change in surface features (wetland fill, deforestation or water diversion) at the time of construction.

### **Radio Frequency Radiation Study**

This radio frequency radiation study is being conducted to determine whether this proposal is in compliance with OET Bulletin Number 65, dated August 1997, regarding human exposure to radio frequency radiation in the vicinity of broadcast towers. This study considers all nearby contributing stations, specifically WYOO, WASJ, WILN and WPCF, utilizes the appropriate formulas contained in the OET Bulletin.<sup>3</sup>

The proposed WVVE antenna system will be mounted with its center of radiation 118.8 meters (390 feet) above the ground at the tower location and will operate with an effective radiated power of 12.0 kilowatts in the horizontal and vertical planes (circularly polarized). The proposed WVVE antenna is an Electronics Research Inc., rototiller style antenna (FCC/EPA Type #3). At two meters, the height of an average person, above the ground at the base of the tower, the proposed WVVE antenna system will contribute 0.0130 mw.<sup>4</sup> Based on exposure limitations for a controlled environment, 1.3% of the allowable limit is reached at two meters above the ground at the base of the tower. For uncontrolled environments, 6.5% of the limit is reached at two meters above the ground at the base of the tower.

The proposed WYOO antenna system<sup>5</sup> will be mounted with its center of radiation 118.8 meters (390 feet) above the ground at the tower location and will operate with an effective radiated power of 12.0 kilowatts in the horizontal and vertical planes

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- 3) The contributions of the FM facilities were calculated using the FM Model program. A single bay EPA dipole antenna was used for calculation purposes, unless otherwise noted.
  - 4) This level of field occurs at 116.8 meters out from the base of the tower and is considered worst case.
  - 5) As requested in a companion application.

(circularly polarized). The WYOO antenna will be an ERI rototiller style system (FCC/EPA Type #3). At two meters, the height of an average person, above the ground at the base of the tower, the WYOO antenna system will contribute 0.0130 mw.<sup>6</sup> Based on exposure limitations for a controlled environment, 1.3% of the allowable limit is reached at two meters above the ground at the base of the tower. For uncontrolled environments, 6.5% of the limit is reached at two meters above the ground at the base of the tower.

The WASJ antenna system is mounted with its center of radiation 99 meters (325 feet) above the ground at the tower location and operates with an effective radiated power of 50.0 kilowatts in the horizontal and vertical planes (circularly polarized). The proposed WASJ antenna is an Electronics Research 5 bay rototiller style system (FCC Type #3). At two meters, the height of an average person, above the ground at the base of the proposed tower, the WASJ antenna system contributed 0.0268 mw.<sup>7</sup> Based on exposure limitations for a controlled environment, 2.7% of the allowable limit is reached at two meters above the ground at the base of the tower. For uncontrolled environments, 13.4% of the limit is reached at two meters above the ground at the base of the tower.

The WILN antenna system is mounted with its center of radiation 113 meters (371 feet) above the ground at the tower location and operates with an effective radiated power of 50.0 kilowatts in the horizontal and vertical planes (circularly polarized). The WILN antenna is an

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6) This level of field occurs at 116.8 meters out from the base of the tower and is considered worst case.

7) This level of field occurs at 33.6 meters out from the base of the tower and is considered worst case.

Dielectric DCR-C5 5 bay system (similar to a RCA BFC series, FCC Type #4). At two meters, the height of an average person, above the ground at the base of the tower, the WILN antenna system contributes 0.0448 mw.<sup>8</sup> Based on exposure limitations for a controlled environment, 4.5% of the allowable limit is reached at two meters above the ground at the base of the proposed tower. For uncontrolled environments, 22.4% of the limit is reached at two meters above the ground at the base of the tower.

The WPCF AM radiator has an electrical length of 189.0° and operates with a nominal power of 0.27 kilowatt at 1290 kHz. A fence is installed as a minimum distance of 2.0 meters from the base of the tower. At this distance, the WPCF facilities contribute an electric field of 95.5 V/m and a magnetic field of 0.051 A/m. Since the station operates below 1340 kHz, the values for controlled and uncontrolled levels are the same. The values are 15.6% of the electrical field limit and 3.1% of the magnetic field. Therefore, the electrical field limit of 15.6% will be considered worst case.

Combining the contributions of the proposed WVVE, WYOO, WASJ, WILN and WPCF, a total of 64.4% of the uncontrolled limit, at the fence perimeter, is reached at two meters above the ground. Since this level for uncontrolled environments is well below the 100% limit defined by the Commission, the proposed translator facility is believed to be in compliance with the radio frequency radiation exposure limits as required by the Federal Communications

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8) This level of field occurs at 32.0 meters out from the base of the tower and is considered worst case.

Commission. Further, Styles Media Group, Inc. (“Styles”) will ensure warning signs are posted in the vicinity of the tower warning of potential radio frequency radiation hazards at the site. In addition, Styles will reduce the power of the proposed 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. Based on the above factors, this proposal is categorically excluded from environmental processing pursuant to §1.1306 of the Commission's rules.