

**MINOR CHANGE APPLICATION**  
**BE-MORE BROADCASTING COMPANY**  
**WEXM (FM) RADIO STATION**  
**CH 291B - 106.1 MHZ - 30.0 KW**  
**EXMORE, VIRGINIA**  
**April 2001**

**EXHIBIT #A**

**Radio Frequency and Environmental Assessment**

Due to the height of the proposed antenna above ground and the power specified, the worksheets associated with FCC Form 301 could not be used to demonstrate compliance with the Commission's radio frequency radiation rules. Therefore, 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 existing FM 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 and utilizes the appropriate formulas contained in the OET Bulletin.<sup>1</sup>

The WEXM antenna system will be mounted with its center of radiation 76.2 meters (250.0 feet) above the ground at the proposed tower location and operate with an effective radiated power of 30.0 kilowatts in the horizontal and vertical planes (circularly polarized). The proposed WEXM antenna will be manufactured by Electronics Research Inc., Model SHPX-4-AC (FCC Type #3). At two meters, the height of an average person, above the ground at the base of the proposed tower, the proposed antenna system will contribute 0.03157 mw.<sup>2</sup> Based on exposure limitations for a controlled environment, 3.2% of the allowable limit is reached at two meters above the ground at the base of the proposed tower. For uncontrolled environments, 15.8% of the limit is reached at two meters above the ground at the base of the tower.

Since this level for uncontrolled environments is far below the 100% limit defined by the Commission, the proposed WEXM facility is believed to be in compliance with the radio frequency radiation exposure limits as required by the Federal Communications Commission.

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- 1) The contribution of the FM facility was calculated using the FMM odel program. A single bay EPA dipole antenna was used for calculation purposes.
  - 2) This level of field occurs at 30.0 meters out from the base of the tower and is considered worst case.

Further, Be-More Broadcasting Company ( Be-More ) will post warning signs in the vicinity of the tower warning of potential radio frequency radiation hazards at the site. In addition, Be-More 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.