

ENGINEERING EXHIBIT 22  
Hope Christian Church of Marlton, Inc.  
Station WVBV  
Application for Minor Changes  
Medford Lakes, New Jersey

ENVIRONMENTAL AND RF RADIATION STATEMENT

The instant application is excluded under 1.1306 and is considered minor under Section 1.1307. The proposed WVBV antenna will be side-mounted on the existing WNJS tower and will not increase the overall height of the structure.

WVBV will be co-located with the facilities of WNJS(TV) and WNJS-DT Camden, New Jersey; WMCN-DT Atlantic City, New Jersey; WNJS-FM, Berlin, New Jersey; and WPSJ-LP, Hammonton, New Jersey. Utilizing the procedures of OET Bulletin 65, Edition 97-01, an RF radiation study was conducted to determine whether the combined signals of the above stations pose a threat to humans anywhere on the ground. In performing this study the prediction methods outlined in Section 2 of OET 65 were used. Specifically, Equation # 10 was used to predict the power density at a height of 2 meters above the ground (AG). The study took into consideration the radiation centers, total ERP, and the antenna vertical pattern of each contributor as obtained from the CDBS database and the antenna make and model numbers. In addition to these six broadcast facilities there are several other land mobile and fixed microwave transmission systems on the same tower, these were taken into consideration when studying the RF power density at a height of 2 meters AG from all sources. Table 1 of appendix A was consulted for the appropriate Maximum Permissible Exposure (MPE) limit for General Population/Uncontrolled Exposure for each contributor.

The proposed WVBV operation will contribute less than 1% of the MPE limit for an FM station operating on 90.5 MHz. WNJS(TV) contributes 3.7% of the MPE limit for a television station operating on Channel 23. WNJS-DT contributes less than 1% of the MPE limit for a digital television station operating on Channel 22. WMCN-DT contributes less than 1% of the MPE limit for a digital television station operating on Channel 44. WNJS-FM contributes less than 1% of the MPE limit for an FM operating on 88.1 MHz. WPSJ-LP contributes less than 1% of the MPE limit for a Class A television station operating on Channel 8. The sum of all percentage contributions from all non excluded sources on the tower, including the non broadcast sources, equals less than 8.7%. The site is therefore in compliance with the MPE limits for the general public.

A sign warning of the hazard that exists at higher elevations on the tower has been placed to warn persons who perform work on the tower. In addition, there is a policy in effect between all users of the tower which requires the reduction in operating power or suspension of transmissions as may be necessary to protect workers who perform work on the tower or antenna systems mounted thereon.