

ENVIRONMENTAL CONSIDERATIONS

The instant application is excluded under 1.1306 and is considered minor under Section 1.1307. The proposed facilities will be combined into a single antenna for both WNJT-DT and WNJT(TV). Also operating from the site are WNJT-FM Trenton, New Jersey, WKXW(FM) Trenton, New Jersey, and WPRB(FM) Princeton, 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 WNJT-DT, WNJT(TV), WNJT-FM, WKXW, and WPRB pose a threat to humans anywhere on the ground. Other radiation sources contributing less than 5% of the total have not been considered. 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) at depression angles of between -60 and -90 degrees for each facility. The study took into consideration the radiation centers AG, total ERP, and the antenna vertical pattern of each contributor. Table 1 of appendix A was consulted for the appropriate Maximum Permissible Exposure (MPE) limit for General Population/Uncontrolled Exposure for each contributor. WNJT-DT will contribute 1.36 % of the MPE limit for a television station operating on Channel 43. WNJT(TV) contributes 1.9% of the MPE limit for a television station operating on Channel 52. WNJT-FM contributes less than 1% of the MPE limit for an FM operating on 88.1 MHz. WKXW contributes less than 1% of the MPE limit for an FM operating on 101.5 MHz.

WPRB also contributes less than 1% of the MPE limit for an FM operating on 103.3 MHz. The sum of all percentage contributions from all non-excluded sources on the tower including the non-broadcast sources equals less than 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. The applicant has an electromagnetic radiation abatement plan to educate employees and workers as to the potential hazards when working 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. A chain-link fence encloses the site.