



Engineering Statement

OF

John F.X. Browne, P.E.

MINOR MODIFICATION OF CONSTRUCTION PERMIT

WMTJ-DT

Fajardo (San Juan), PR

Background

The Ana G. Mendez Educational Foundation (Mendez) is the licensee of WMTJ-TV, CH40, in Fajardo, PR. It also has been granted a construction permit for WMTJ-DT, CH16, (BPEDT-20000428ACK, Facility ID# 2174). The construction permit calls for the use of a directional antenna; however, that antenna is no longer manufactured requiring that Mendez now use a slightly different directional antenna. The only other change is that horizontal-only polarization is now proposed in lieu of circular polarization.

Antenna and ERP

The proposed antenna is a Dielectric Model TFU-16DSC-R S300. The azimuth and elevation patterns and tabulations are included as Exhibit 1a- Exhibit 1d. A Relative Field/dBk table is included as Table 1.

The proposed antenna will be placed in the same aperture as the antenna originally specified and, therefore, the HAAT and radiation center remain the same. The overall height of the tower will not be affected; neither notice to the FAA nor changes to the Antenna Structure Registration is required.



The authorized ERP of 150 kW will remain unchanged and the 48dBu contour from the proposed antenna will continue to encompass the city of Fajardo, PR.

Interference

Interference studies were conducted with the proposed new pattern. These studies indicate that there are no new overlap problems to Class A stations and no NTSC or DTV station would receive more interference than would be produced by the authorized facility.

Environmental and RFR Considerations

The proposed construction does not involve any of the issues which would require preparation of an Environmental Assessment as outlined in Section 1.1311 of the Commission's rules.

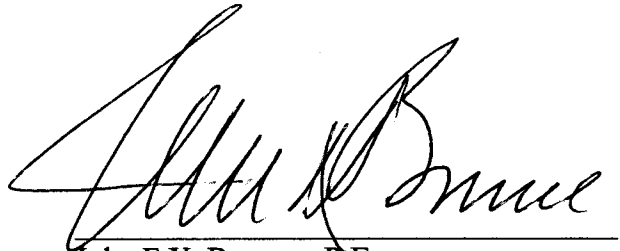
The proposed DTV operation will add to the existing RFR scenario from multiple stations on the transmission site. The ground level RFR from WMTJ-DT, as proposed, is calculated to be much less than 1% of the MPE for public exposure; therefore, further consideration is not required.

There is a possibility that workers on the structure would be exposed to high levels of RFR in excess of the MPE for occupational exposure. The licensee will reduce power as required to provide a compliant environment for workers near its antenna and, when necessary, will reduce power at the request of other users.

The base of the tower is enclosed by a locked security fence and appropriate signage is posted warning of the RFR hazard on the structure.

**Certification**

I hereby certify that the foregoing report or statement was prepared by me but may include work performed by others under my supervision or direction. The statements of fact contained therein are believed to be true and correct based on personal knowledge, information and belief unless otherwise stated; with respect to facts not known of my own personal knowledge, I believe them to be true and correct based on their origin from sources known to me to be generally reliable and accurate. I have prepared this document with due care and in accordance with applicable standards of professional practice.



John F.X. Browne, P.E.

March 13, 2003