



ENGINEERING STATEMENT
OF
JOHN F.X. BROWNE, P.E.
IN SUPPORT OF AN APPLICATION FOR
MINOR MODIFICATION OF A POST-TRANSITION CONSTRUCTION PERMIT
WPTD-DT
DAYTON, OH

Background

Greater Dayton Public TV, Inc. is the licensee of WPDT-DT which has been authorized to operate its post-transition DTV facility on Channel 16 (BPEDT-20080312ADM) at Dayton, OH, with an ERP of 81 kW at a HAAT of 350m. The tower is located at the following coordinates:

(NAD27)
39° 43' 16" N
84° 15' 00" W

WPTD now wishes to "maximize" the post-transition facility ERP to 155 kW. All other facility parameters will remain the same.



Site

The proposed facility is located within the Canadian border zone and coordination with the Canadian government is requested to the extent necessary in light of the FCC's ongoing negotiations with the Canadian government.

Antenna System and Tower

WPTD proposes to operate with its existing omni-directional RCA TFU-25G analog antenna (which will be used for post-transition operation). The antenna is installed on a tower (ASR#1011760) that has an overall height of 624.7m AMSL (with appurtenances). The antenna has a center-of-radiation of 613m AMSL (with a calculated HAAT of 350m). No modification of the tower or antenna system is necessary to effect the proposed change in ERP.

Coverage

The entire principal community of Dayton, OH is well within the predicted F(50,90) 48 dBu contour based on the proposed 155 kW ERP.

Interference

Studies were conducted with the proposed parameters using software that emulates the software used by the FCC (OET-69 analysis). The results of the study indicate that there are no post-transition domestic stations that would receive more than 0.5% new interference.

Environmental/RFR

The proposed construction does not require preparation of an Environmental Assessment as it does not involve any of the factors listed in Section 1.1306.

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The additional ground level RFR contributed to the site by this proposal in public areas is calculated to be 0.000432 mW/cm^2 which is less than 5% of the MPE for public exposure (0.32 mW/cm^2) at the proposed frequency and, therefore, the proposal is excluded from further consideration.

WPTD agrees to comply with the Commission's requirements regarding power adjustments or cessation of operation as may be necessary to ensure a compliant environment for worker access. Workers will be encouraged to wear personal RFR monitors when on the structure. The tower base is enclosed by a locked security fence and appropriate signage warning of RFR hazards is posted.

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.
June 10, 2008