



ENGINEERING STATEMENT

OF

JOHN F.X. BROWNE, P.E.

IN SUPPORT OF REQUEST FOR

SPECIAL TEMPORARY AUTHORITY

WPTD-DT

DAYTON, OH

Background

Greater Dayton Public Television, Inc. (GDPT) is the licensee of WPTD-DT which has been authorized to operate its maximized post-transition DTV facility on Channel 16 (BMPEDT-20080631ABK) at Dayton, OH, with an ERP of 155 kW at an HAAT of 350m. The tower is located at the following coordinates:

(NAD27)

39° 43' 16" N

84° 15' 00" W

This Engineering Statement has been prepared in support of a request by GDPT for operation of WPTD-DT with a different omni-directional antenna until the Commission can process its application for a new CP. The proposed new antenna will have a radiation center that is 5.8 meters lower and the overall height of the tower will be 11.7 meters lower than the authorized heights. GDPT will file for a Construction Permit simultaneously with this STA request specifying the new antenna and heights. It will also notify the FAA and modify the ASR (1011760).



Antenna

The authorized antenna an RCA TFU-25G omni-directional radiator will be replaced with a Dielectric TFU-14GTH/VP-R-04 omni-directional radiator. The new antenna is shorter than the authorized antenna making it necessary to file for the change on a Form 340. This STA is for operation until the FCC grants the CP for use of the new antenna. The new antenna will be elliptically polarized and the vertically polarized radiation component will not exceed the horizontally polarized component at any azimuth. The changes that will be made to the licensed facility that are specified in this STA are as follows:

	<u>Licensed</u>	<u>Proposed</u>
<u>Antenna</u>	RCA TFU-25G	DIE TFU-14GTH/VP-R04
<u>Over all tower height (AMSL)</u>	624.7 meters	613 meters
<u>Antenna Radiation Center Height (AGL)</u>	345 meters	339.2 meters
<u>HAAT</u>	350 meters	344.2 meters

No other changes to the licensed facility are requested in this STA.

Interference

Since the proposed facility will still utilize an omni-directional antenna but with a radiation center that is 5.8 meters lower and the same ERP as the licensed facility, it can be seen that the proposed facility will not create any more interference than the licensed facility.



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.

The additional ground level RFR contributed to the site by this proposal in public areas is calculated to be 0.001786 mW/cm^2 which is less than 5% of the MPE for public exposure (0.323333 mW/cm^2) at the proposed frequency and, therefore, the proposal is excluded from further consideration.

GDPT 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 trained on RFR issues and 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.
July 20, 2009