



## **ENGINEERING STATEMENT**

OF

**JOHN F.X. BROWNE, P.E.**

**IN SUPPORT OF REQUEST FOR**

**SPECIAL TEMPORARY AUTHORITY**

**WNEO-DT**

**ALLIANCE, OH**

### **Background**

Northeastern Educational Television of Ohio, Inc. (NETO) is the licensee of WNEO-DT which has been authorized to operate its maximized post-transition DTV facility on Channel 45 (BMPEDT-20080619AIA) at Alliance, OH, with an ERP of 500 kW at a HAAT of 253m. The tower is located at the following coordinates:

(NAD27)

40° 54' 23" N

80° 54' 40" W

This Engineering Statement has been prepared in support of a request by NETO for operation of WNEO with these maximized parameters before February 17, 2008. WNEO has recently been authorized to cease operation of its pre-transition DTV facility on CH46 and commence early of operation with facilities on CH45 under a reduced power STA (BLDSTA-20080905AAO). WNEO-DT is presently operating (since November 19, 2008) with an ERP of 44 kW on CH45 and now wishes to increase its pre-transition ERP to 500 kW as authorized under its post-transition construction permit. All of the proposed STA parameters are the same as authorized in the post-transition construction permit.



### **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 pre-transition domestic stations (analog or digital) that are predicted to receive more than the de minimus interference (2.0% or 10% total). The studies do indicate a contour overlap with WWAT-CA, a Class A station in Uniontown PA (BLTTL-19990706JJ); however a Longley-Rice analysis shows that there would be no interference to this 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 0.013213 mW/cm<sup>2</sup> which is less than 5% of the MPE for public exposure (0.44 mW/cm<sup>2</sup>) at the proposed frequency and, therefore, the proposal is excluded from further consideration.

WNEO 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.

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John F. X. Browne, P.E.  
December 16, 2008