



## **ENGINEERING STATEMENT**

OF

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

IN SUPPORT OF

**MINOR MODIFICATION TO A CONSTRUCTION PERMIT**

**WYIN-DT**

**Gary, IN**

### **Background**

Northwest Indiana Public Broadcasting, Inc. (Northwest) is the licensee of WYIN-TV and WYIN-DT. It has been issued a construction permit for WYIN-DT, Channel 17 (20010705ABA Facility ID # 49803) specifying an ERP of 300 kW at an HAAT of 468 meters from the Sears Tower in Chicago. Northwest now proposes to construct the DTV facility at the allotment site and to operate with a directional antenna (ERP of 300 kW at an HAAT of 290 meters.)

### **Site**

The proposed site coordinates are:

(NAD27)

41-20-56 NL

87-24-02 WL





### **Antenna System and Tower**

The proposed Andrew directional antenna (CH17AZ-H-MODEL-CX) will be side-mounted on the existing tower that is being used by WYIN-TV. The tower is registered (1029219). Neither FAA notification nor modification of the Antenna Structure Registration is required as the proposal does not increase the overall height of the antenna structure.

### **Coverage**

The entire principal community of Gary, IN is well within the predicted F(50,90) 48 dBu contour.

### **Interference**

Studies were made at the proposed parameters using software that emulates the software used by the FCC. Those studies indicate that there are no Class A station overlap problems and no NTSC or DTV station would receive more than the de minimis interference described in OET-69.

### **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 0.00127 mW/cm<sup>2</sup> which is less than 1% of the MPE for public exposure (0.327 mW/cm<sup>2</sup>) at the proposed frequency and, therefore, the proposal is excluded from further consideration.

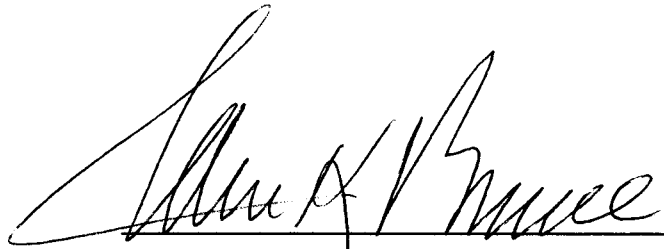


**B**

Northwest agrees to comply with the Commission's requirements regarding power adjustments or cessation of operation as may be necessary to ensure a complaint environment for worker access. Workers will also 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 in place.

**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.

A handwritten signature in black ink, appearing to read "John F.X. Browne", written over a horizontal line.

John F.X. Browne, P.E.

MAV/022403/2-1004

JOHN F.X. BROWNE & ASSOCIATES, P. C.