



**ENGINEERING STATEMENT**  
**OF**  
**JOHN F.X. BROWNE, P.E.**  
**IN SUPPORT OF**  
**APPLICATION FOR CONSTRUCTION PERMIT**  
**POST-TRANSITION DTV FACILITY**  
**WXVT-DT**  
**GREENVILLE, MS**

**Background**

SAGA Broadcasting, LLC (SAGA) is the licensee of WXVT, located at Greenville, MS, which is presently authorized to operate its digital facility on Channel 17 with the following parameters:

**Pre-transition Facility (Ch. 17)**

Coordinates: 33° 39' 26" N (NAD27)  
90° 42' 18" W  
ERP: 5 kW (omni)  
HAAT: 252.5m

WXVT elected Channel 15 (its analog channel) and has been allotted the post-transition DTV operation Appendix B facility parameters listed below:

**Post-transition Facility (Ch. 15)**

Coordinates: 33° 39' 26" N (NAD27)  
90° 42' 18" W  
ERP: 330 kW (omni)  
HAAT: 269m



WXVT presently operates its analog facility on Channel 15 and the antenna it had been using was not compatible for DTV; therefore, in November 2004, WXVT installed a new Channel 15 antenna (in place of its old Channel 15 antenna) which can be used for DTV operations (post-transition) and has been used by its analog facility in the interim (which WXVT will continue using for analog transmission until February 17, 2009).

### **Antenna System and Tower**

The existing WXVT analog antenna, a Dielectric TFU-29JTH-R O4 (which will be used for post-transition DTV operation), is installed on a tower (ASR#1042326) approximately 45km northeast of Greenville, MS. The tower has an overall height of 319.7m AMSL (with appurtenances) and the antenna will have a center of radiation of 308m AMSL (with a calculated HAAT of 269m).

### **Coverage**

The entire principal community of Greenville, MS is well within the predicted F(50,90) 48 dBu contour using the proposed omni-directional 330 kW ERP.

### **Interference**

WXVT is not seeking to expand its service contour beyond the contour of its Appendix B facility in any direction; therefore, no interference analysis is required to be submitted with this application.

### **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  $0.001153 \text{ mW/cm}^2$  which is less than 5% of the MPE for public exposure ( $0.32 \text{ mW/cm}^2$ ) at the proposed frequency and, therefore, the proposal is excluded from further consideration.

SAGA recognizes that this is a multi-user tower site and RFR levels on the tower may exceed the occupational exposure limit. SAGA 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.

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

John F.X. Browne, P.E.  
February 22, 2008