



**ENGINEERING STATEMENT**  
OF  
**JOHN F.X. BROWNE, P.E.**  
IN SUPPORT OF  
**APPLICATION TO MODIFY CONSTRUCTION PERMIT**  
**WXVT-DT**  
**Greenville, MS**

**Background**

Saga Broadcasting, LLC (Saga), is the licensee of WXVT-TV, Channel 15 (198010315KF Facility ID # 25236) and the permittee of WXVT-DT, Channel 17 (19991019ABP) in Greenville, MS. Saga has elected to use its analog Ch 15 for DTV after the transition instead of its allotted Ch 17 and has received a tentative designation from the Commission to use Ch 15 for digital transmission. Since WXVT has received a tentative channel designation on a channel (Ch 15) that is not its current DTV channel (Ch 17) and WXVT is not in one of the Top-100 markets, WXVT would, by virtue of the Commission's August 4, 2004 Report and Order, be permitted to construct a facility that covers at least 80% of the viewers served by the 1997 facility on which its replication coverage is based. Saga hereby proposes to modify its Ch 17 DTV Construction Permit so that it will cover at least 80% of the referenced population.



### **Site and Antenna**

Saga proposes to use its presently authorized site to side-mount a Dielectric TFU-8DSBA omni-directional antenna, at a radiation center height of 291.1m AMSL, on the same registered tower (ASRN 1042326) as specified in the current construction permit. The proposed construction would not increase the overall height of the structure and, therefore, there will be no need to notify the FAA or to modify the Antenna Structure Registration.

### **Power**

The proposed ERP of 5 kW will produce a 41 dBu F(50,90) contour that is predicted to cover 205,969 persons. Table 2 of the Commission's 1998 Station NTSC and DTV Replication Information, dated 12-21-2004, lists the replication population for WXTV as 250,631 persons. Eighty percent of that number is 200,505; therefore, the proposed WXTV DTV facility is predicted to cover more than the minimum required 80%. The proposed 48 dBu F(50,90) contour will continue to completely encompass Greenville, MS.

### **Interference**

There would be no new interference issues as both the height and ERP are significantly lower than that of the facility authorized in the current permit.

### **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  $0.000105 \text{ mW/cm}^2$  which is less than 5% of the MPE for public exposure ( $0.327 \text{ mW/cm}^2$ ) at the proposed frequency.

Saga 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 will be enclosed by a locked security fence and appropriate signage warning of RFR hazards will be 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 2, 2006