

**TECHNICAL EXHIBIT  
Prepared In Support of  
Application for Minor Change of  
Non-Commercial Digital Television  
For Applicant**

**Howard University Television**

**WHUT-DT**

**WASHINGTON, DISTRICT OF COLUMBIA  
CHANNEL 33  
1,000 KW (Omni)  
327.2 Meters (RCAMSL)**

**June 19, 2008**



**Dennis Wallace  
Meintel, Sgrignoli, & Wallace  
1282 Smallwood Drive  
Suite 372  
Waldorf, MD. 20603**

### **Background & Proposed Facilities:**

This Technical Exhibit supports an application by Howard University Television (HUT) for minor modification of the license for digital television station WHUT-DT on DTV Channel 33 at Washington, District of Columbia. Pursuant to the Maximization of Post-Transition DTV facilities, WHUT-DT desires to increase the ERP of their existing channel 33 license to better serve its audience.

WHUT proposes to operate its final post-transition DTV facility on channel 33 using the same antenna, tower location, and height, and desires only to increase its Effective Radiated Power (ERP) up to the de minimus limits as set for by the FCC.

A study was conducted by Meintel, Sgrignoli, & Wallace utilizing TechWare software. The results of this study indicate that WHUT-DT should be able to operate at 1,000 KW without exceeding the 0.5% interference criteria to other stations. This conclusion is based upon discussion with the only potentially effected station on the adjacent channel that would limit WHUT-DT's power increase.

WPXW-DT has been allotted channel 34 for its post-transition operations. WPXW-DT has indicated to WHUT-DT that it is their intention to concurrently file an application for maximization of their post-transition facilities on channel 34 for approximately 1,000 KW. Based upon this representation, WHUT-DT will not exceed the 0.5% interference criteria with regard to WPXW-DT once its application is granted. Should the Commission not grant WPXW-DT's application, WHUT-DT desires to increase the ERP of its facilities up to the 0.5% limit with respect to WPXW-DT and would amend its application accordingly to decrease its requested ERP.

### **Environmental Considerations**

Under section 1.1306 of the Commission rules, an environmental impact assessment is not required for this request. The proposal does not specify a location in a designated wilderness area, a wildlife preserve, areas of critical habitats, historic district, Indian religious site, or flood plain, and will not involve significant changes in surface features. Additionally, the tower is an existing structure.

The proposed operation was evaluated for human exposure to radiofrequency (RF) energy using the procedures outlined in the Commission's OET Bulletin 65. The proposed antenna will be installed such that its center of radiation is approximately 663.6 meters above the ground level. An ERP of 1,000 kilowatts, horizontally polarized, will be employed. An analysis was conducted using the elevation pattern data provided by the antenna manufacturer. The analysis was conducted using formulas from FCC Bulletin OET-65. The analysis indicated that the power density at the base of the tower (2 meters above ground) is well below the maximum permissible exposure limits for the "uncontrolled/general population" limits. At locations away from the base of the tower

and building the calculated power density is even lower, due to the increasing distance away from the antenna.

Additionally, the applicant will restrict access to the tower and building areas to prevent unauthorized personnel from accessing the antenna. The applicant agrees to work with other licensees at the site and will cease operations during periods that personnel will be working on the tower or antenna structure. The applicant will also develop an RF exposure safety program for all workers that will be accessing the site. Any time workers will be working on the tower, the applicant will cease operations of the transmitters.

Based upon the preceding, it is believed that this instant proposal may be categorically excluded from environmental processing under Section 1.1306 of the Commission's Rules; therefore, preparation of an Environmental Assessment is not required.

### **Certification**

This statement with associated exhibits was prepared by me or under my direction. All assertions in this statement are true of my own personal knowledge except where otherwise indicated and these latter assertions are based on information from sources known reliable and believed to be true.

Submitted this 19<sup>th</sup> day of June, 2008.

By: \_\_\_\_\_  
Dennis Wallace  
Meintel, Sgrignoli, & Wallace