

**DISPLACEMENT/FLASH CUT APPLICATION**  
**HOLSTON VALLEY BROADCASTING CORPORATION**  
**WAPG-CA CLASS A LPTV STATION**  
**CH 18 - 494-500 MHZ - 2.2 KW MAXIMUM**  
**GREENEVILLE, TENNESSEE**  
**July 2010**

**TECHNICAL STATEMENT**

This Technical Statement and attached exhibits were prepared on behalf of Holston Valley Broadcasting Corporation ("HVBC"), licensee of Class A LPTV station WAPG-CA, Channel 14+, Greeneville, Tennessee. HVBC herein seeks displacement for WAPG-CA to Channel 18, with a simultaneous flash-cut to digital operation. WAPG-CA is within 265 kilometers of a co-channel full service station (WMYA-TV, Anderson, South Carolina). Pursuant to §73.3572(a)(4)(IV(A)), WAPG-CA is eligible for displacement relief. Therefore, HVBC seeks to relocate WAPG-CA to Channel 18, operating with a power of 2.2 kilowatts in digital mode.

The antenna system for WAPG-CA flash-cut to digital facility will be located on an existing tower. The tower is less than 200 feet and therefore does not require registration.<sup>1</sup> Digital Channel 18 complies with the Commission's interference rules, based on the use of the Longley-Rice, OET-69 Bulletin<sup>2</sup>, as shown on Exhibit A. It is noted that the terrain was sampled at 0.1 kilometer, and a signal cell size of 1.0 kilometer was used, with 2000 Census population

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- 1) Based on a review using the Commission's TOWAIR program.
  - 2) The Longley-Rice model was implemented on the Probe 3 computer model from V-Soft Communications. This model has been found to closely replicate the results provided by the Commission's computer model.

reviews.<sup>3</sup> A stringent emission mask was used in the calculations. The proposed facility does not cause unique interference to more than 0.5% of the population of full service TV stations, nor more than 2.0% of the population of LPTV stations or TV translators.<sup>4</sup>

The proposed WAPG-CA antenna is co-located with other TV and radio facilities; as such, attached as Exhibit B is a radio frequency radiation statement demonstrating compliance with the Commission's RF rules.<sup>5</sup>

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- 3) All TV data was extracted from the Commission's CDBS database on the date of the interference review. We assume no liability for errors or omissions in that database which may be adverse to the request proposed herein.
  - 4) It is noted that an application for W51CK Asheville, North Carolina is still listed in the database for Channel 18+ (BPTTL-20011023AAO). The application was dismissed August 19, 2002 by the Commission at the request of the applicant. It is therefore not considered herein as an impediment to this instant displacement request.
  - 5) The undersigned has only completed a radio frequency exposure analysis as part of this submission.