

**DIGITAL DISPLACEMENT APPLICATION**  
**LAWRENCE F. LOESCH**  
**W56EC LPTV STATION**  
**CH 24 - 530-536 MHZ - 0.275 kW**  
**MANTEO, NORTH CAROLINA**  
**June 2012**

**TECHNICAL STATEMENT**

This Technical Statement and attached exhibits were prepared on behalf of Lawrence F. Loesch ("LFL"), licensee of analog LPTV station W56EC, Channel 56Z, Manteo, North Carolina. LFL also has as analog displacement permit for W56EC to move to Channel 24 (BDISTTL-20110809ABH). The Channel 24 permit is herein modified to reflect digital operation in lieu of analog on Channel 24.

The antenna system for the proposed digital companion channel (the licensed analog antenna system) is already located on the proposed tower. Therefore, the Federal Aviation Administration was not apprised of this proposal. The tower on which the antenna is to be located has been registered with the Commission and assigned Antenna Structure Registration Number 1203259.

The proposed digital companion facility's operation on digital Channel 24 complies with the Commission's interference rules, based on the use of the Longley-Rice OET #69 Bulletin. Exhibit A is a tabulation of the results of the Longley-Rice review showing that the proposed facility causes no interference to any existing, applied for, or proposed facility, based on the database used on the indicated study date. 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 reviews.<sup>1</sup> No full service station receives predicted interference above 0.5% of its population as a result of this instant proposal. No secondary LPTV station receives predicted interference above 2.0% of its population as a result of this instant proposal.

Exhibit B is a review that shows the proposed digital companion antenna is in compliance with the Commission's RF exposure limits. It is noted that the proposed digital antenna system is co-located with AM station WOBX, 1530 kHz, Wanchese, North Carolina. The WOBX AM array is presently operating with a single tower under an STA. Therefore, since the LPTV antenna and transmission line are already in place on the tower (in use with the analog system) and no pre- or post-measurements on WOBX can be taken due to the STA, it is requested that no conditions be placed on the herein sought permit. Once the AM facilities are restored, an application to return WOBX to license will be submitted to the Commission. LFL is a principal of the licensee of WOBX.

All data used to certify compliance with the Commission's rules has been forwarded to LFL and is available for submission to the Commission on request.<sup>2</sup>

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- 1) The analysis was conducted using the Probe 3 computer model from V-Soft Communications which has been found to replicate the results of the Sun DTV computer model used by the Commissions staff in reviewing television applications.
  - 2) The undersigned is certifying only the radio frequency exposure portion of the environmental analysis. All data regarding TV facilities was extracted from the CDBS database on the date of the interference study included herein. We assume no liability for errors or omissions in that database which may be adverse to the request made herein.