

ALLOCATION AND INTERFERENCE STUDY
PROPOSED WLXI-DT
CHANNEL 43 - GREENSBORO, NORTH CAROLINA
[MODIFICATION OF BPCDT-19990803LF]

The Commission allotted Channel 43 to WLXI-DT with a nominal ERP of 50 kw at 168 meters above average terrain. The instant application specifies an ERP of 105 kw at 527 meters from a new site, which has been determined to be allowable under the FCC's *de minimus* standards with respect to various NTSC and DTV facilities.

In evaluating the interference effect of this proposal, we have relied upon the V-Soft Communications "Probe" computer program, which has been found generally to mimic the FCC's program. The program analyzes the coverage and interference within 1-kilometer cells and calculates signal levels at 0.1 kilometer increments along each azimuth studied. Population results are based on the 2000 U.S. Census. Interference was not attributed to the WLXI-DT proposal in cells where interference from some other source is already predicted. Unique interference caused by WLXI-DT to other pertinent co-channel and adjacent-channel stations is tabulated in Exhibit G-2.

As indicated, the proposed WLXI-DT facility would not contribute more than two percent DTV interference to the service population of any affected NTSC or DTV station. In addition, this proposal does not result in any NTSC or DTV station receiving more than ten percent total DTV interference to viewers living within its authorized service area.

Therefore, this proposal meets the FCC's *de minimus* interference standards for DTV operations.