

**PRINCIPAL COMMUNITY COVERAGE STATEMENT  
DTV BROADCAST STATION  
CONSTRUCTION PERMIT APPLICATION  
WGSA-DT 1000 kW ERP, 351 M AGL CH. 35  
BAXLEY, GEORGIA**

**INTRODUCTION**

This statement was prepared on behalf of the Southern TV Corporation, applicant for a new DTV station permit at Baxley, Georgia. It provides an alternative prediction method showing of compliance with the Federal Communication Commission's Principal community coverage requirement in support of an application for a modified Construction Permit for that new facility. The DTV facility will operate on TV Channel 35 (599 MHz) from an existing multiple user tower near Savannah, Georgia.

The station will employ a Dielectric antenna with a center height of 351 meters Above Ground Level (AGL), 349 meters Above Average Terrain (AAT), and with an effective radiated power (ERP) of 1000 kW in the horizontal plane. The proposed antenna is a multiple layer slot array radiator that will be side mounted with other antennas on a existing guyed tower. The Antenna Structure Registration No. Is 1032657 with an overall structure height of 467 meters above ground level (AGL).


**COMMUNITY COVERAGE**

Attached as Exhibit 43 at paragraph 12, Section III-D, of the DTV Engineering Technical section, is a map presenting DTV coverage of the WGSA-DT city of assignment, Baxley, GA. That map shows the 41 dBu and the 48 dBu contours, predicted by the normal FCC Contour estimation method. The 48 dBu contour falls short of Baxley and thus the checklist question at paragraph 3 is answered no and the explanation and

supplemental coverage showing is supplied at question 12 .

The supplemental showing on the map at Exhibit 43 depicts both the 41 and the 48 dBu coverage based on the FCC adopted DTV Processing software incorporating the Longley - Rice field strength estimation routine. The calculations were made and reported for each 1 km square cell. Clear areas of the map receive 48 dBu or greater service, light gray areas are between 48 and 41 dBu and the dark gray map areas are less than 41 dBu. Although the estimated 48 dBu contour falls approximately 10 km short of Baxley, the 48 dBu Longley-Rice predicted field strength covers all of Baxley and extends approximately 10 km beyond the city. Principal community coverage is clearly demonstrated by this alternative coverage showing.

Respectfully submitted,  
**LOHNES AND CULVER**

by   
Robert D. Culver, P.E.  
MD. Reg. No. 19672

8309 Cherry Lane  
Laurel, Maryland

July, 2006