

TECHNICAL EXHIBIT  
APPLICATION FOR DTV MAXIMIZATION  
STATION WTOC-DT (FACILITY ID 590)  
SAVANNAH, GEORGIA  
CH 11 24.4 KW 441 M

Technical Narrative

This Technical Exhibit supports an application for digital television (DTV) station WTOC-DT to maximize its post-transition facility. This application requests a construction permit (CP) for a digital television operation on channel 11, using its licensed non-directional antenna.

Proposed Facilities

Station WTOC-DT proposes to operate DTV channel 11 with a non-directional effective radiated power (ERP) of 24.4 kilowatts and antenna height above average terrain (HAAT) of 441 meters. The transmitter site coordinates are:

32° 03' 14" North Latitude  
81° 21' 01" West Longitude

A sketch of antenna and pertinent elevations are included as Figure 1. Figure 2 is a map showing the DTV predicted coverage contours. The predicted 43 dBu contour will encompass all of Savannah. The Savannah city limits were derived from information contained in the 2000 U.S. Census of Population and Housing.

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Population Served

The herein proposed WTOC-DT “maximized” facility is predicted to serve 841,503 persons, post-transition, based upon the 2000 Census. WTOC-DT’s associated Appendix B facility is predicted to serve 752,579 persons. Therefore, the herein proposed WTOC-DT facility would serve more than 100% of WTOC-DT’s Appendix B population.

Allocation Considerations

The proposed WTOC-DT operation meets the FCC’s 0.5% post-transition interference standards to pertinent Class A and DTV facilities using the procedures outlined in the FCC’s OET-69 Bulletin and a standard 2 kilometer cell size and 1 kilometer terrain distance increment.

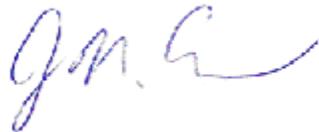
Radiofrequency Electromagnetic Field Exposure

The proposed WTOC-DT facilities were evaluated in terms of potential radio frequency (RF) energy exposure at ground level to workers and the general public. The radiation center for the proposed DTV antenna is located 443 meters above ground level with an ERP of 24.4 kW. A conservative relative field value of 1.0 was assumed for the calculation. The calculated power density at a point 2 meters above ground level will not exceed 0.0042 mW/cm<sup>2</sup>. This is less than 5% of the FCC's recommended limit of 0.2 mW/cm<sup>2</sup> for channel 11 for an “uncontrolled” environment.

Access to the transmitting site will be restricted and appropriately marked with warning signs. In the event that workers or other authorized personnel enter restricted areas or climb the tower, appropriate measures will be taken to assure worker safety with respect to radio frequency radiation exposure. Such measures include reducing the average exposure by

spreading out the work over a longer period of time, wearing "accepted" RFR protective clothing and/or RFR exposure monitors or scheduling work when the station is at reduced power or shut down. The proposed WTOC-DT operation appears to be otherwise categorically excluded from environmental processing.

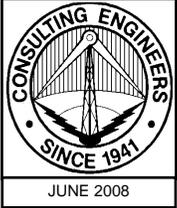
It is noted that this statement only addresses the potential for radiofrequency electromagnetic field exposure. All other aspects of the environmental processing analysis will be or already have been provided to the FCC by the tower owner.



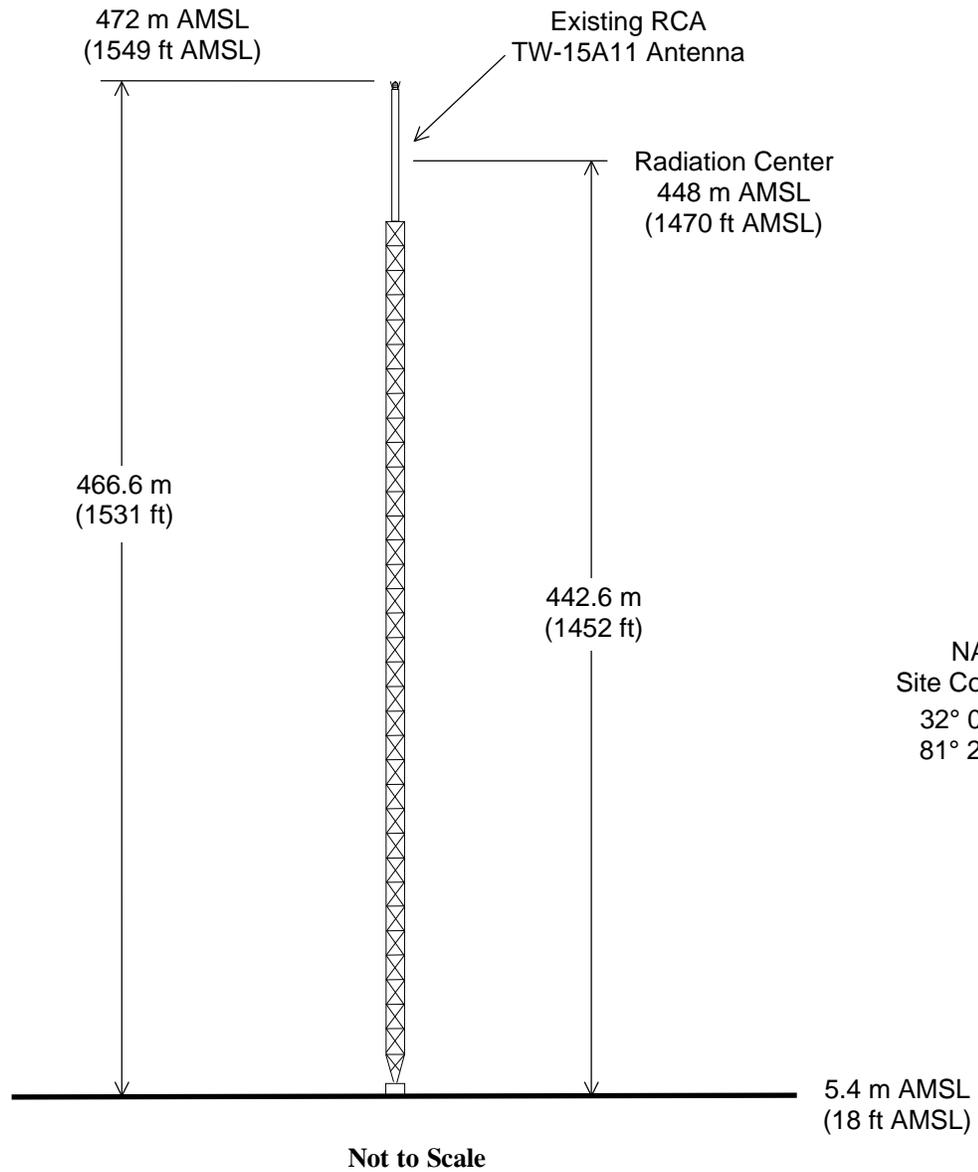
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## ANTENNA AND SUPPORTING STRUCTURE

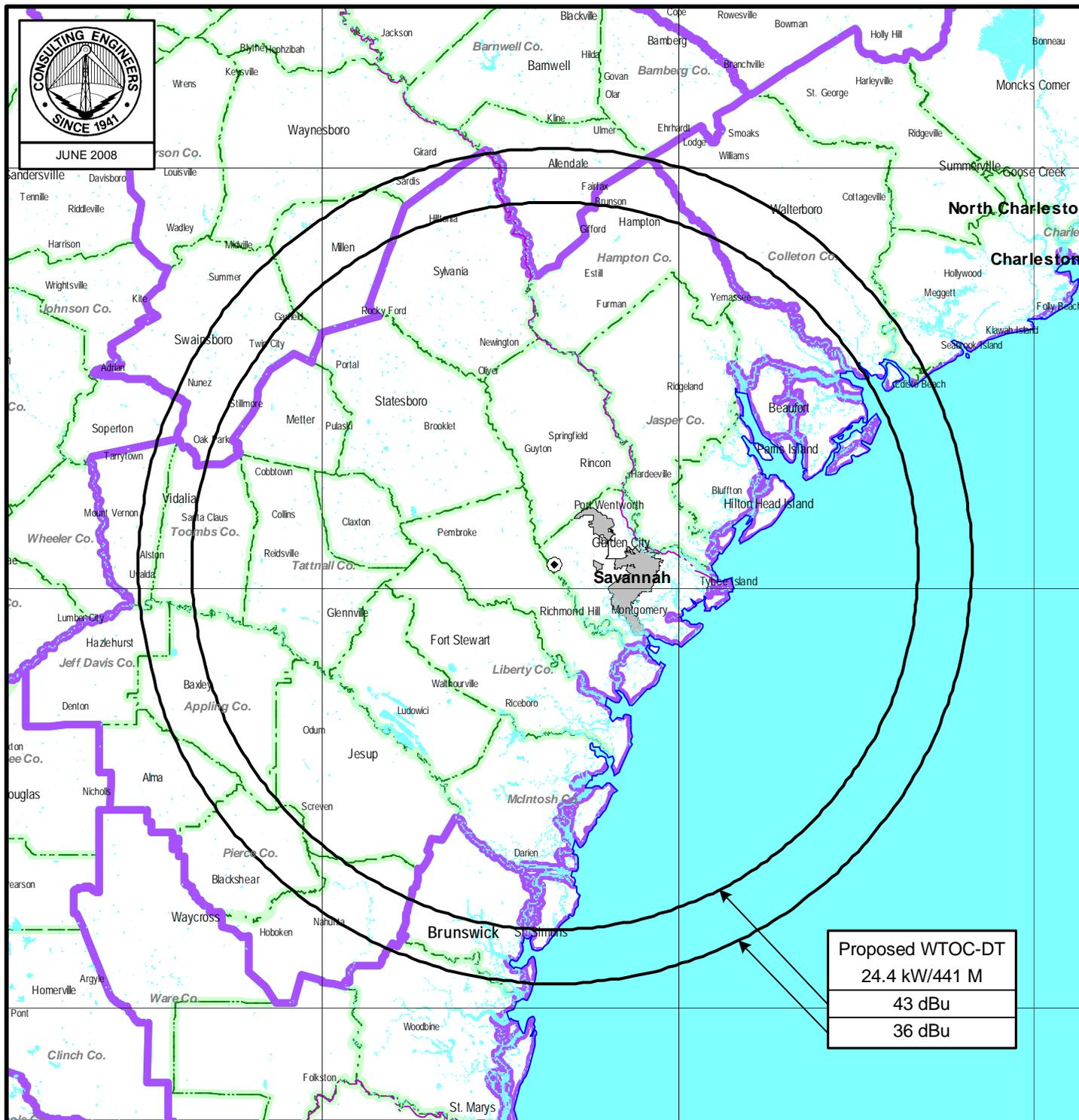
STATION WTOC-DT

SAVANNAH, GEORGIA

CH 11 24.4 KW 441 M

du Treil, Lundin & Rackley, Inc. Sarasota, Florida

Figure 2



**PREDICTED COVERAGE CONTOURS**

STATION WTOC-DT  
SAVANNAH, GEORGIA  
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du Treil, Lundin & Rackley, Inc Sarasota, Florida