TECHNICAL EXHIBIT
APPLICATION FOR DTV MAXIMIZATION
STATION WLOX(DT) (FACILITY ID 13995)
BILOXI, MISSISSIPPI
CH 13 10.9 KW 408 M

Technical Narrative

This Technical Exhibit supports an application for digital television (DTV) station WLOX(DT) to maximize its post-transition facility. This application requests a construction permit (CP) for a digital television operation on channel 13, using a non-directional antenna.

Proposed Facilities

Station WLOX(DT) proposes to operate DTV channel 13 with a non-directional effective radiated power (ERP) of 10.9 kilowatts and antenna height above average terrain (HAAT) of 408 meters. The transmitter site coordinates are:

30° 43’ 22” North Latitude
89° 05’ 28” 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 Biloxi. The Biloxi city limits were derived from information contained in the 2000 U.S. Census of Population and Housing.

Population Served

The herein proposed WLOX(DT) "maximized" facility is predicted to serve 1,282,714 persons, post-transition, based upon the 2000 Census. WLOX(DT)'s associated Appendix B facility is predicted to serve 951,000 persons. Therefore, the herein proposed WLOX(DT) facility would serve more than 100% of WLOX(DT)'s Appendix B population.

Allocation Considerations

The proposed WLOX(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 **non-standard 1 kilometer cell size** and 1 kilometer terrain distance increment.

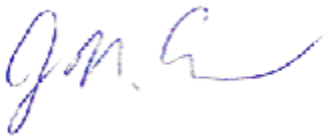
Radiofrequency Electromagnetic Field Exposure

The proposed WLOX(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 383.9 meters above ground level with an ERP of 10.9 kW. A conservative relative field value of 0.3 was assumed for the calculation (see Figure 3). The calculated power density at a point 2 meters above ground level will not exceed 0.0002 mW/cm^2. This is less than 5% of the FCC's recommended limit of 0.2 mW/cm^2 for channel 13 for an "uncontrolled" environment.

Access to the transmitting site will be restricted and appropriately marked with warning signs. As this is a multi-user site an agreement between the stations will control site access. 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 WLOX(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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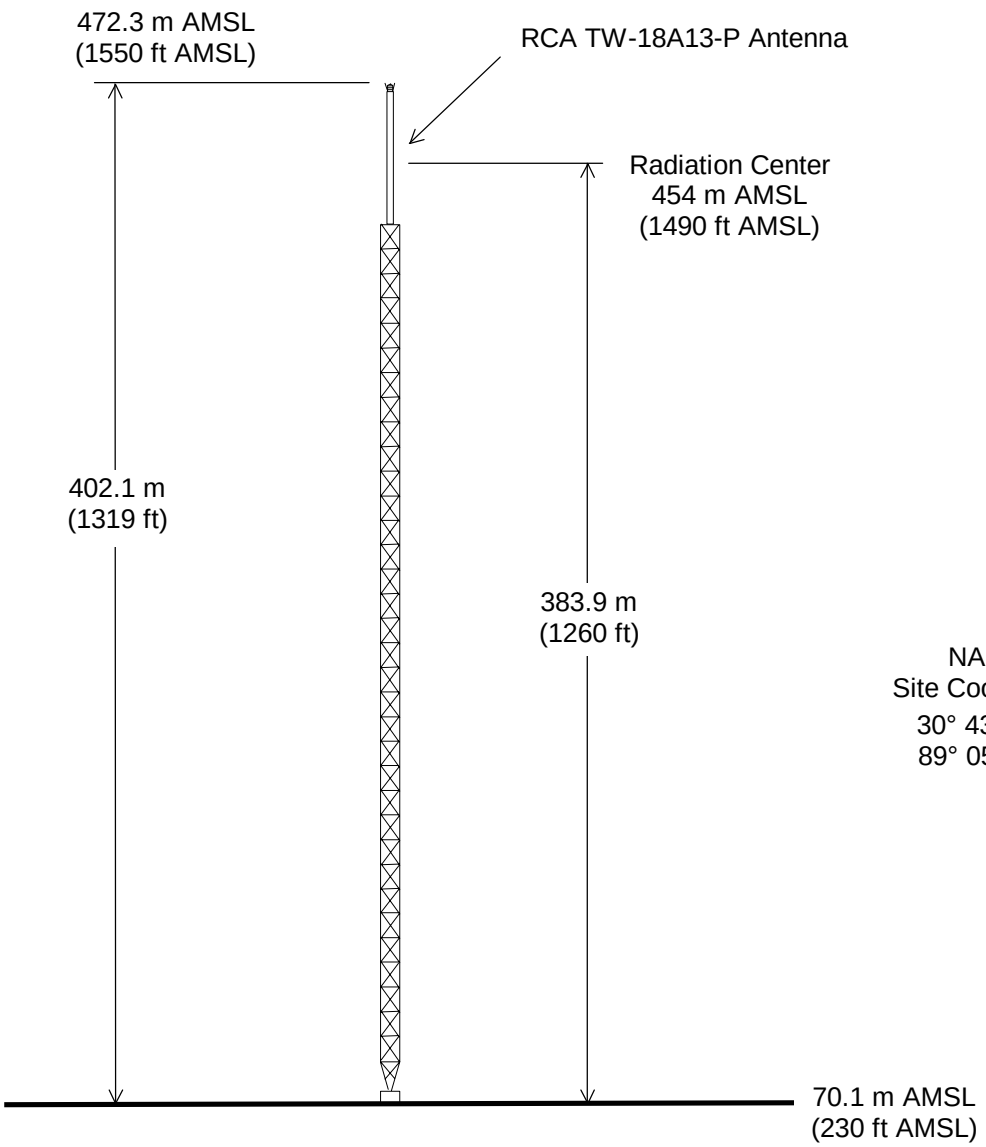
Registration No. 1039874



Not to Scale

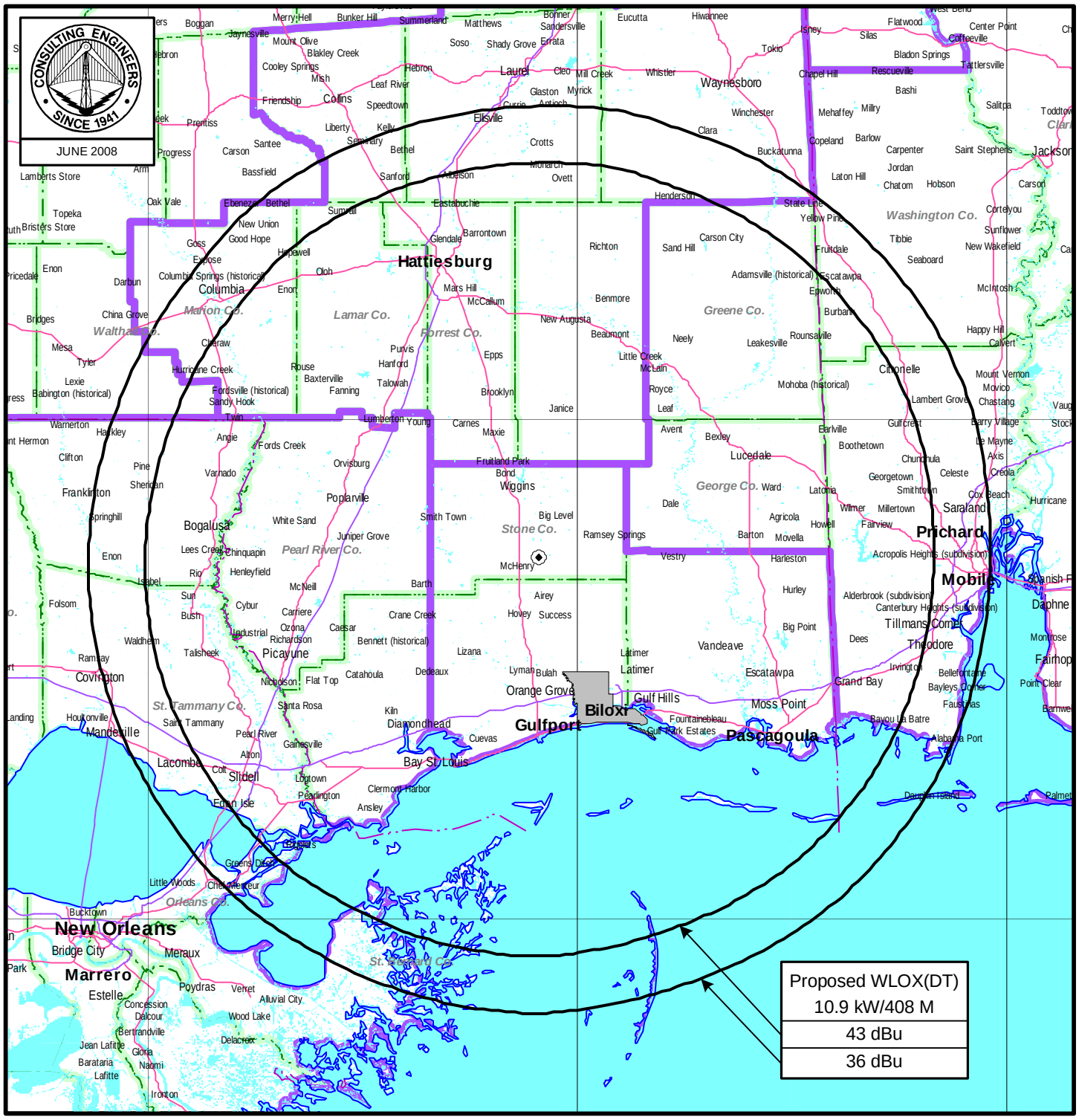
ANTENNA AND SUPPORTING STRUCTURE

STATION WLOX(DT)

BILOXI, MISSISSIPPI

CH 13 10.9 KW 408 M

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



PREDICTED COVERAGE CONTOURS

STATION WLOX(DT)

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