

TECHNICAL EXHIBIT  
MAXIMIZATION APPLICATION  
STATION WBXH-CA (FACILITY ID 51806)  
BATON ROUGE, LOUISIANA  
CH 39(-) 150 KW (MAX-DA)

Technical Narrative

This Technical Exhibit supports a maximization application for Class A television station WBXH-CA. Station WBXH-CA is licensed to operate on analog channel 46 with a directional antenna maximum (visual) effective radiated power (ERP) of 59.5 kW and an antenna height above mean sea level (RCAMSL) of 168 meters (BLTTL-19900410IC). The licensed channel 46 operation is displaced by full service, co-channel DTV station WAFB, which is located only 20 kilometers away. WBXH-CA has a displacement application pending to operate on channel 39 (BDISTTA-20070501AEC). WBXH-CA also currently operates under special temporary authority (STA) on channel 39 (BSTA-20051103ACL).

Proposed Facilities

This application proposes analog operation on channel 39 at the WAFB(TV) (post-transition digital) transmitter site. The proposed site coordinates are (NAD27): 30-21-58 N, 91-12-47 W (see Figure 1). An Antenna Concepts (ANT), model ACS16BR directional antenna (oriented at 55 degrees True) with a maximum ERP of 150 kW and antenna RCAMSL of 510 meters is proposed. The antenna structure registration number for the existing tower is 1020497.

Figure 2 is a map showing the licensed and proposed 74 dBu coverage contours. As is apparent on the map, the proposed 74 dBu contour will have some common contour overlap with the licensed 74 dBu contour.

#### Allocation Considerations

A study has been conducted to assure that the proposal will not create prohibited interference with other licensed, authorized or pending analog or digital TV, LPTV/translator and Class A TV stations. The proposal appears to comply with the FCC's OET-69 Bulletin processing procedures. If necessary, a waiver of the FCC rules is respectfully requested based on use of the FCC's OET-69 Bulletin.

The applicant understands that it must correct and/or eliminate prohibited interference that may result from its proposed operation.

#### Radiofrequency Electromagnetic Field Exposure

The proposed WBXH-CA 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 antenna is located 503 meters above ground level. The maximum proposed maximum ERP is 150 kW. A conservative relative field value of 0.5 was assumed for the directional antenna's downward radiation. The calculated power density at a point 2 meters (6.6 feet) above ground level is 0.0025 mW/cm<sup>2</sup>. This is less than 5% of the FCC's recommended limit of 0.42 mW/cm<sup>2</sup> for channel 39 for an "uncontrolled" environment.

Access to the transmitting site will be restricted and appropriately marked with warning signs. As this will be a multi-user site, an agreement with the other station(s) 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 stations are at reduced power or shut down.

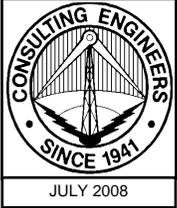
It is noted that this statement only addresses the potential for radiofrequency electromagnetic field exposure. All other aspects of the environmental processing analysis will be or already have been provided to the FCC by the tower owner as part of the tower registration process.



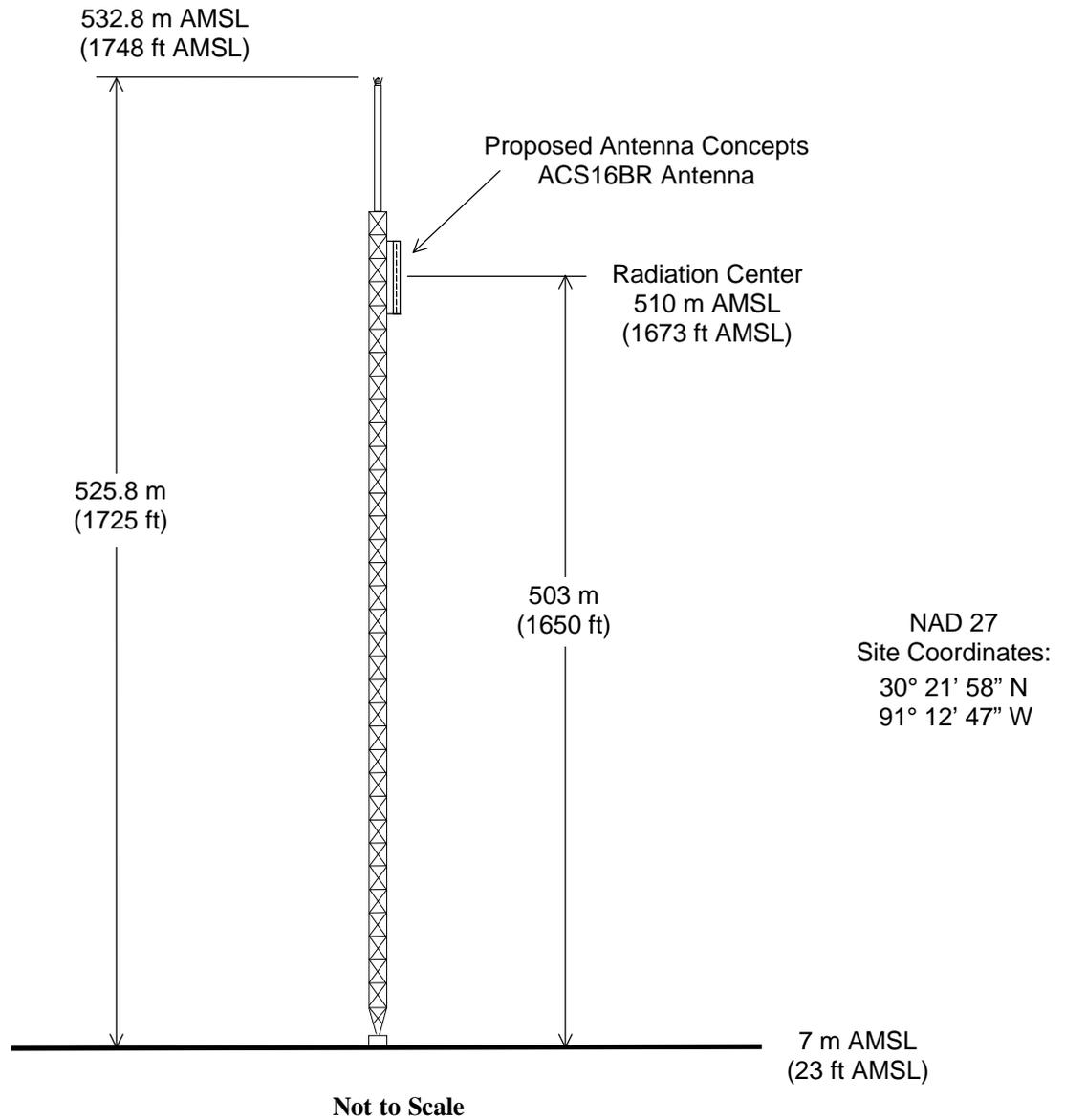
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201 Fletcher Avenue  
Sarasota, Florida 34237  
(941) 329-6000

July 30, 2008



Registration No. 1020497



## ANTENNA AND SUPPORTING STRUCTURE

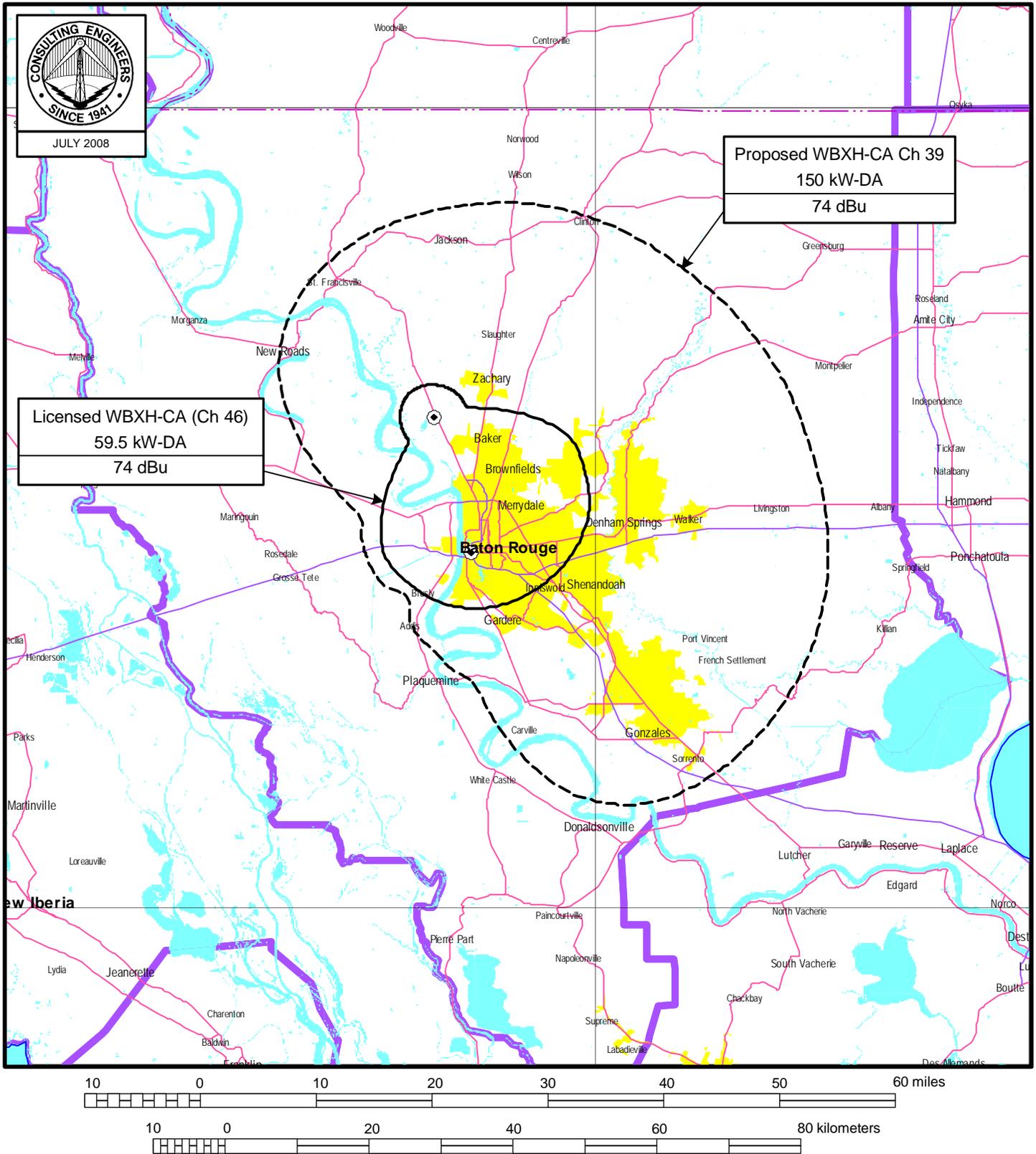
STATION WBXH-CA

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

Figure 2



## PREDICTED COVERAGE CONTOURS

STATION WBXH-CA

BATON ROUGE, LOUISIANA

du Treil, Lundin & Rackley, Inc Sarasota, Florida