

TECHNICAL EXHIBIT  
DIGITAL FLASH CUT APPLICATION  
STATION WBEK-DC (FACILITY ID 3369)  
AUGUSTA, GEORGIA  
CH 16 6.9 KW (MAX-DA)

Technical Narrative

This Technical Exhibit supports an application to “flash-cut” to digital operation for Class A television station WBEK-CA. Station WBEK-CA is licensed to operate on analog channel 16 with a directional antenna maximum (visual) effective radiated power (ERP) of 8 kW and an antenna height above mean sea level (RCAMSL) of 180.7 meters (BLTTL-20001215AAV).

Proposed Facilities

This application proposes to flash-cut to digital mode on channel 16 at the current transmitter site, using the current antenna. The site coordinates remain (NAD27): 33-28-25 N, 82-02-05 W. An Antenna Concepts (ANT), model ACS8E directional antenna (re-oriented to 75 degrees True) with a maximum ERP of 6.9 kW and antenna RCAMSL of 180.7 meters is proposed. The tower registration number is 1212621.

Figure 1 is a map showing the licensed and proposed coverage contours. As is apparent on the map, the proposed 51 dBu digital contour will have some common contour overlap with the licensed 74 dBu contour.

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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 WBEK-DC 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 37 meters above ground level. The maximum proposed ERP is 6.9 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 0.05 mW/cm<sup>2</sup>. This is 16% of the FCC's recommended limit of 0.32 mW/cm<sup>2</sup> for channel 16 for an "uncontrolled" environment. Since there are no other known broadcast emitters on the tower, this is believed to be in compliance with the recommended guidelines.

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.

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.



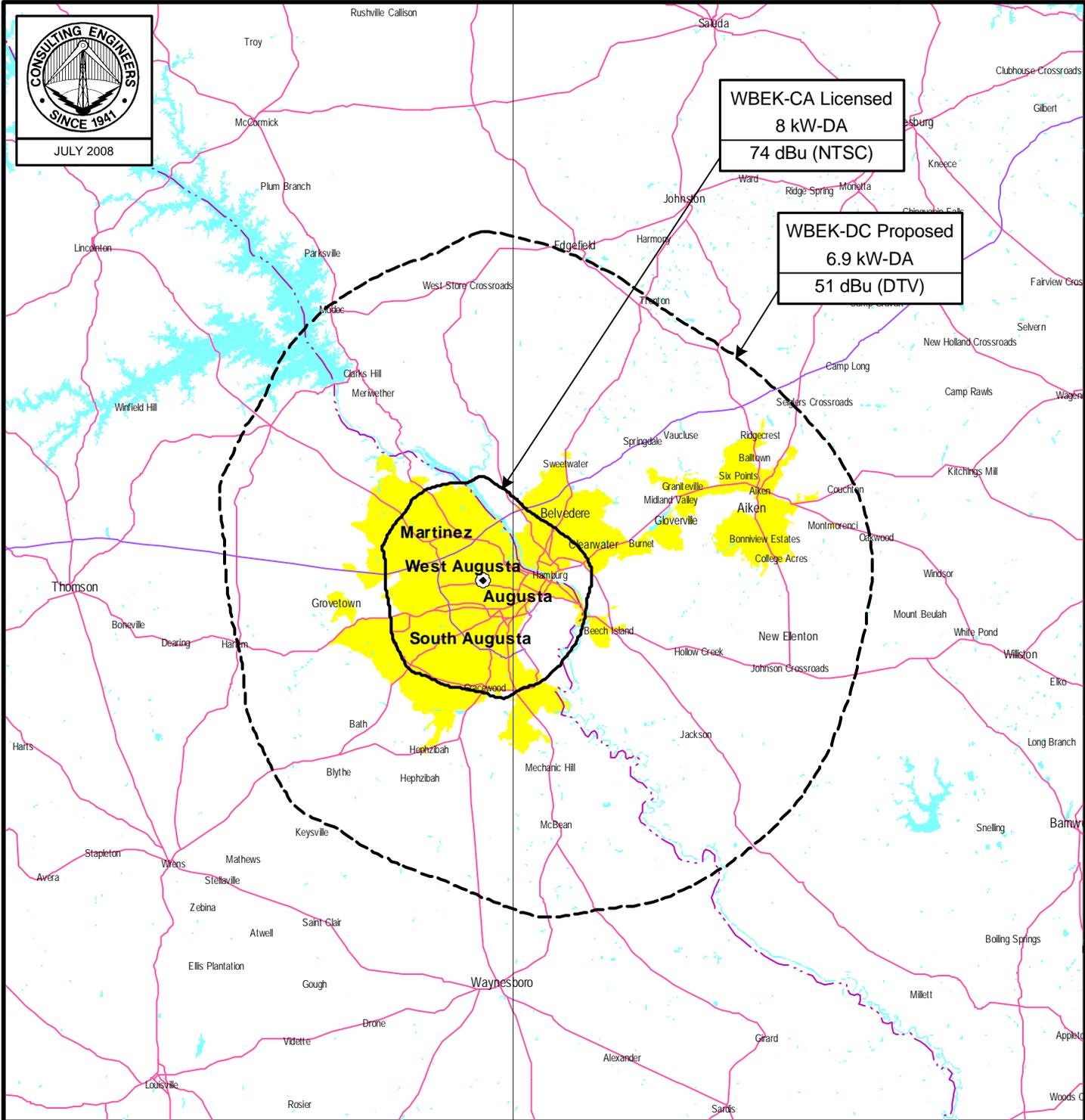
Jonathan N. Edwards

du Treil, Lundin & Rackley, Inc.  
201 Fletcher Avenue  
Sarasota, Florida 34237  
(941) 329-6000

July 31, 2008



JULY 2008



WBEK-CA Licensed  
8 kW-DA  
74 dBu (NTSC)

WBEK-DC Proposed  
6.9 kW-DA  
51 dBu (DTV)

# PREDICTED COVERAGE CONTOURS

## STATION WBEK-CA AUGUSTA, GEORGIA

du Treil, Lundin & Rackley, Inc Sarasota, Florida