

ENGINEERING STATEMENT
REQUEST FOR SPECIAL TEMPORARY AUTHORITY
RADIO STATION WBSN(FM)
NEW ORLEANS, LOUISIANA

This Engineering Statement was prepared on behalf of radio station WBSN(FM), New Orleans, Louisiana, concerning a request for Special Temporary Authority (STA). WBSN is licensed for operation on Channel 206C2 with an effective radiated power (ERP) of 8.5 kW and antenna height above average terrain (HAAT) of 190 m. The WBSN licensed facility is currently inoperable due to the events related to the Hurricane Katrina disaster.* Until WBSN is able to restore its licensed facility, WBSN requests operation pursuant to STA at a new site with a facility as described below.

WBSN hereby requests STA to operate from an existing tower site located near Gretna, Louisiana at reduced height and power. The particulars of the proposed WBSN STA operation are summarized in the table below:

Parameter	Value
Channel/Frequency	206A / 89.1 MHz
Site Coordinates	29-55-11N 90-01-29W
Antenna Structure Registration Number	1020780
ERP	5.0 kW

* Louisiana Hurricane Katrina Disaster, Declared August 29, 2005. See FEMA, DR-1603.

Parameter	Value
Antenna height above ground	134 m
Antenna height above mean sea level	134 m
Antenna HAAT	134 m
Antenna make and model	SWR, FM-3V/4-CF (nominal non-directional)
Antenna polarization	Vertical-only
Antenna element spacing	$\frac{3}{4} \lambda$
Antenna power gain	3.24
Transmission line	Andrew, HJ7-50A
Length	177 m
Efficiency	77.3%
Transmitter power output	2.0 kW

The predicted 60 dBu coverage contours of the WBSN licensed facility and the proposed STA facility were calculated according to the conventional FCC procedure. As indicated in the attached Figure 1, the proposed WBSN STA predicted 60 dBu contour will not extend beyond the WBSN licensed 60 dBu contour in any direction.

Environmental Considerations

The proposal is categorically excluded from environmental processing under Section 1.1306(note 1) as an existing tower will be employed; and the proposal

would result in less than 5% of the radio frequency (RF) exposure limit for the frequency proposed. The calculation of RF energy at 2-m above ground was made under the procedures of OET Bulletin No. 65. The formula employed by the model is as follows:

$$S = \frac{(33.4)F^2 P}{R^2}$$

where, S = power density in uW/cm², F = relative field factor at the angle to the calculation point, P = the total effective radiated power relative to a dipole in watts, and R = distance from the antenna radiation center to the calculation point in meters. Based on the worst-case assumption of a relative field factor of 1.0 the calculated power density will not exceed 9.3 uW/cm². Therefore, the calculated RF exposure at 2 m above ground will not exceed 4.7% of the limit of 200 uW/cm² for general population / uncontrolled environments.

The transmitter site shall be restricted from access. In the event that personnel are required to climb the tower, the Channel 206 STA transmissions shall be reduced or terminated as necessary to prevent RF exposure above the FCC recommended limits. Furthermore, the applicant certifies that RF radiation exposure procedures shall be coordinated with all other nearby stations such that no human exposure to RF radiation above the recommended levels shall occur.

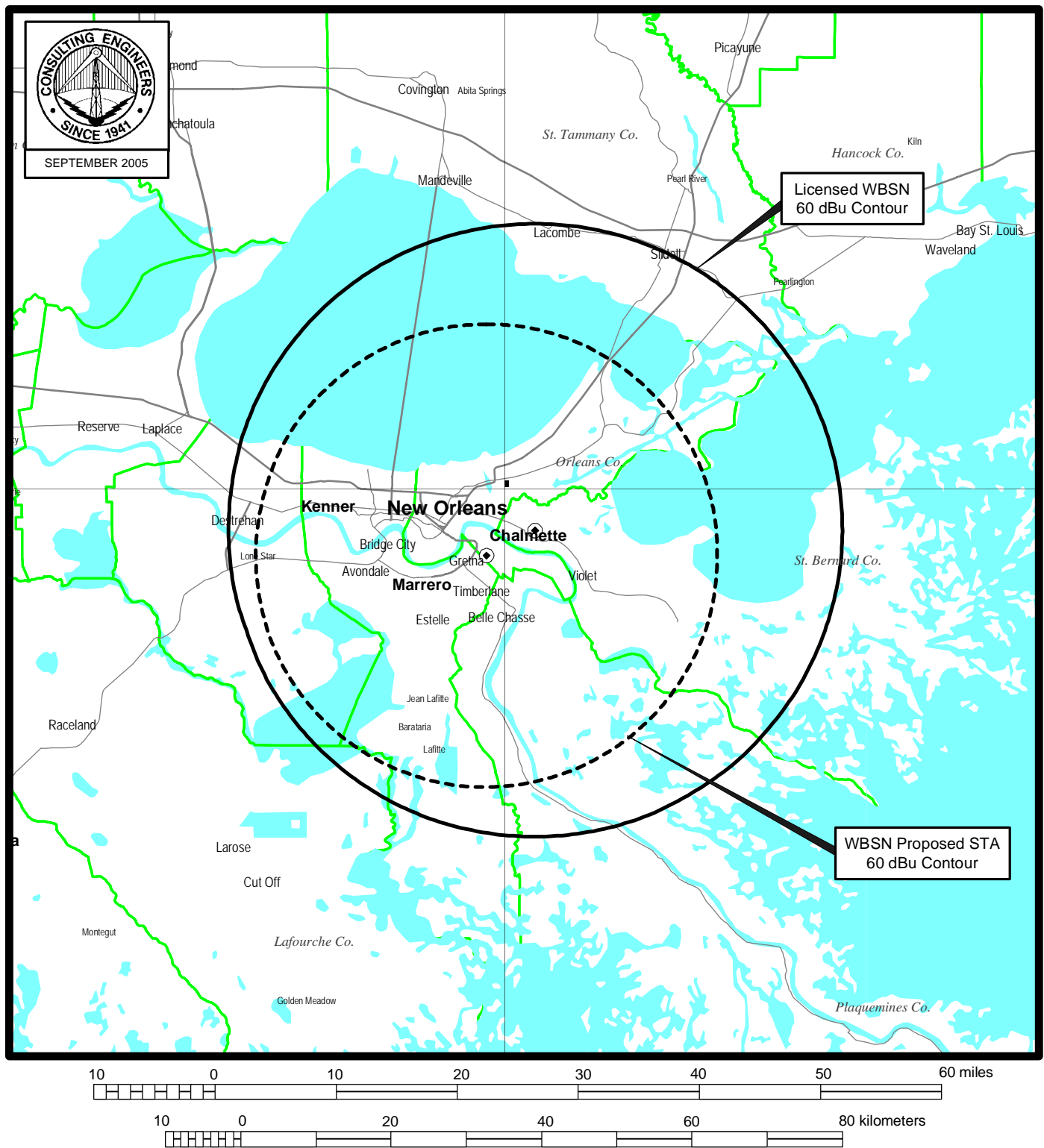


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Figure 1



PREDICTED COVERAGE CONTOURS

**FM BROADCAST STATION WBSN(FM)(STA)
NEW ORLEANS, LOUISIANA
CHANNEL 206 5.0 KW(V) 134 M**

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