TECHNICAL EXHIBIT
REQUEST FOR SPECIAL TEMPORARY AUTHORIZATION FOR
CLASS A TV STATION KFOL-CA (FACILITY ID 24978)
HOUMA, LOUISIANA
CH 30   40 KW (MAX-DA)

Technical Narrative

This Technical Exhibit supports a request for special temporary authorization (STA) for Class A analog (NTSC) television (TV) station KFOL-CA at Houma, Louisiana (Facility ID 24978). Station KFOL-CA is licensed (BLTTA-20010712AAZ) to operate on analog channel 30(+) with a directional antenna (DA) maximum visual effective radiated power (ERP) of 40 kilowatts (kW). The antenna radiation center height (RCAMSL) is 115 meters above mean sea level (AMSL). The FCC antenna structure registration number (ASRN) is 1020441 and the site coordinates are 29-38-52, 90-41-34 (NAD-27).

Proposed STA Facilities

This STA request proposes to move the KFOL-CA analog operation to another tower in the vicinity of Houma, Louisiana. The FCC ASRN for the proposed location is 1028923 and the site coordinates are 29-35-33, 90-44-34 (NAD-27).   Operation will remain on the current channel (30) with a plus (+) carrier offset. It is proposed to use the current Antenna Concepts model ACS32A directional antenna system with the major lobe oriented toward 210 degrees True (FCC antenna ID 17762 rotated 210 degrees). The proposed maximum ERP for the STA remains 40 kW-DA. The proposed antenna radiation center will be 114.3 meters above ground level (AGL), and 117.3 meters AMSL.

Figure 1 is a map showing the present and proposed STA 74 dBu contours. As can be seen on the map, there is common area where both contours overlap.

Allocation Considerations

A study has been conducted to assure that the proposed STA operation will not create prohibited interference with other licensed, authorized or pending analog or digital TV, LPTV/translator and Class A TV stations, including post transition DTV. Using the procedures outlined in the FCC's OET-69 Bulletin, a 1 kilometer grid, a 1 kilometer terrain increment, and 1990 U.S. Census, the proposal complies with the current FCC policy (i.e., less than 0.5% new interference caused to other pertinent assignments). The 2000 US Census was employed for the post transition interference study. If necessary, a waiver of the FCC rules is respectfully requested based on use of the procedures outlined in the FCC's OET-69 Bulletin.

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

Radiofrequency Electromagnetic Field Exposure

The proposed KFOL-CA STA 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 114.3 meters above ground level. The proposed maximum ERP is 40 kW. Based on a downward relative field of 0.5, the calculated power density at a point 2 meters (6.6 feet) above ground level will not exceed 5% of the FCC's recommended limit of 0.38 mW/cm^2 for channel 30 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 stations are at reduced power or shut down.

It is noted that this statement only addresses the potential for radiofrequency electromagnetic field exposure.
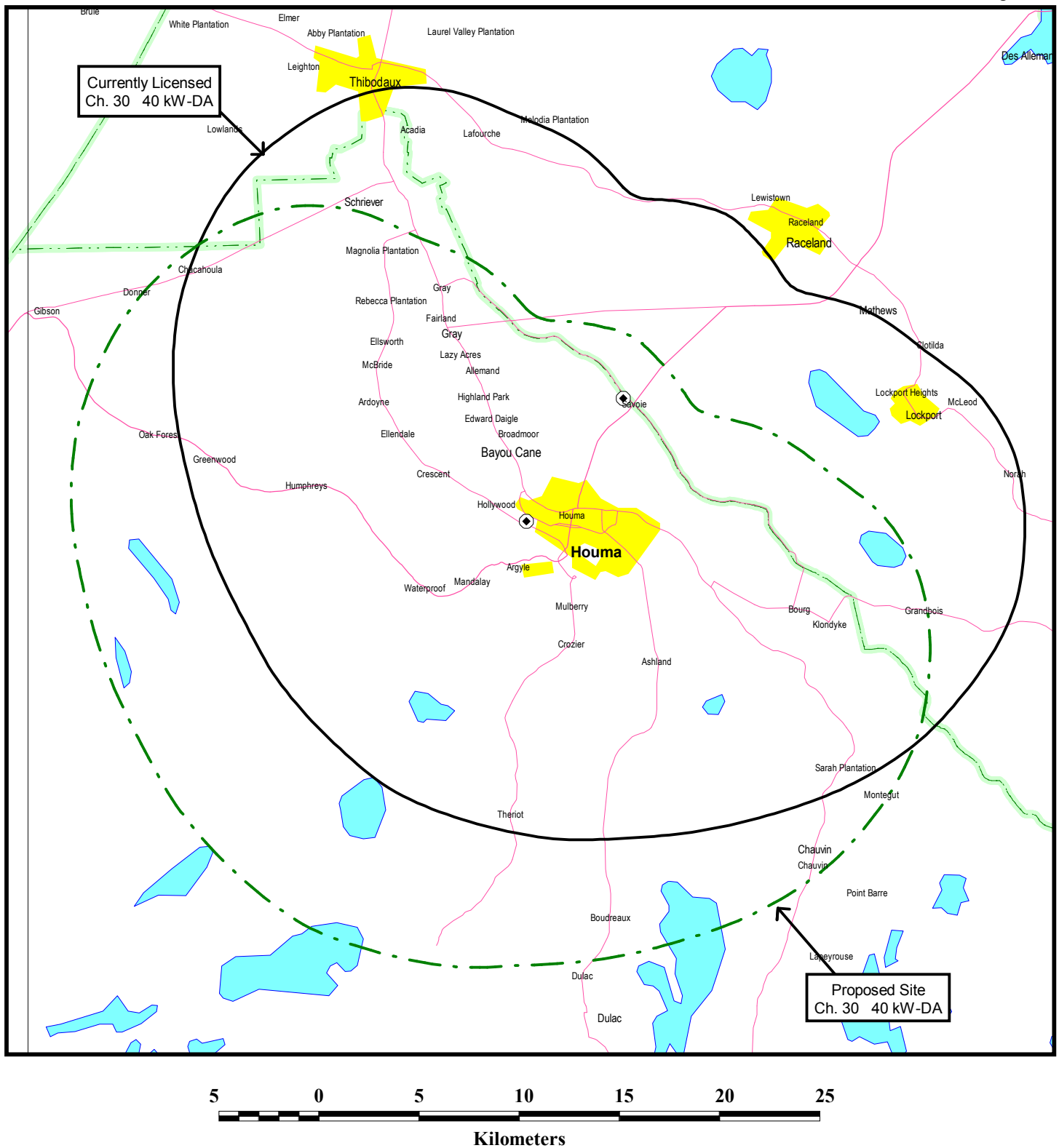
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Figure 1

FCC PREDICTED 74 DBU COVERAGE CONTOURS

CLASS A STATION KFOL-CA
HOUMA, LOUISIANA
CHANNEL 30

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