

TECHNICAL SUMMARY
REQUEST FOR MODIFICATION OF
SPECIAL TEMPORARY AUTHORITY (STA)
LMS FILE NO. 0000050274
TV STATION WLOO
VICKSBURG, MISSISSIPPI
CHANNEL 41 552 KW (MAX-DA) 228 m

1. The instant request is for modification of the Special Temporary Authority (STA) for WLOO, Vicksburg, Mississippi (LMS File No. 0000050274), which is licensed for operation on channel 41.¹ The modified WLOO STA facility will operate on channel 41 with a directional antenna side-mounted at a height of 195 meters above ground level on an existing tower. There will be no change in the overall structure height of the existing tower (ASRN 1053668).

2. The proposed STA antenna system has been designed such that there will be no extension of the predicted noise-limited service contour of the STA facility beyond that of the main facility (see Figure 1 attached).

3. RFR Compliance: The proposed facilities were evaluated in terms of potential radiofrequency radiation (RFR) exposure at ground level to workers and the general public. The radiation center for the proposed DTV antenna will be located 195 meters above ground level. The total DTV ERP is 552 kW (horizontal polarization). A conservative vertical plane relative field value of 0.1 is presumed for the antenna's downward radiation in both the horizontal and vertical planes of polarization (for angles below 60 degrees downward, see attached antenna data). The calculated power density at a point 2 meters above ground level is 4.95 uW/cm² which is 1.2% of the FCC's recommended limit of 423.3 uW/cm² for channel 41 for an uncontrolled environment. Therefore, based on the responsibility threshold of 5%, the proposal will comply with the RF emission rules.

¹ See FCC File No. BLCDT-20090603AAQ.

Access to the transmitting site is restricted and appropriately marked with RFR warning signs. Furthermore, as this is a multi-user site, a formal RFR protection protocol is in effect in the event that workers or other authorized personnel enter the restricted area or climb the tower to ensure that appropriate measures will be taken to assure worker safety with respect to RFR exposure. Such measures include limiting the exposure time, wearing protective clothing, reducing power to an acceptable level or termination of transmitter output power all together until workers leave the restricted area.