

TECHNICAL SUMMARY
APPLICATION FOR MODIFICATION OF CONSTRUCTION PERMIT
TV STATION WDFX-TV
OZARK, ALABAMA
CHANNEL 33 325 KW (DA) 151 m

1. The instant application for WDFX-TV on channel 33 at Ozark, Alabama is filed in response to the FCC's Public Notice which temporarily lifted the freeze on the filing of minor modification applications that expand the contour or full power and Class A TV stations.¹ It is proposed to increase the ERP from 15 kW to 325 kW. No other changes are proposed. There will also be no change in the overall structure height of the existing tower (ASRN 1244456).

2. As demonstrated in the *TVStudy* analysis exhibit, the proposal complies with the FCC's interference protection requirements based on a cell size of 2.0 km and profile resolution of 0.1 points/km.

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 144.2 meters above ground level. The total DTV ERP is 325 kW (horizontal polarization). A greater than expected vertical plane relative field value of 0.1 is presumed for the antenna's downward radiation (for angles below 60 degrees downward, see attached antenna information). The calculated power density at a point 2 meters above ground level is 5.4 uW/cm² which is 1.4% of the FCC's recommended limit of 391.3 uW/cm² for channel 33 for an uncontrolled environment. Therefore, based on the responsibility threshold of 5%, the proposal will comply with the RF emission rules.

Access to the transmitting site is restricted and appropriately markets with RFR warning signs. Also, 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 measure will be taken to assure worker safety with respect to RFR exposure. Such measures

¹ *Media Bureau Temporarily Lifts the Freeze on the Filing of Minor Modification Applications That Expand the Contour of Full Power and Class A Television Stations from November 28 Through December 7, 2017*, Public Notice, DA 17-1086 (released November 6, 2017).

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.