

TECHNICAL SUMMARY  
APPLICATION FOR CONSTRUCTION PERMIT  
CLASS A STATION WVUP-CD  
TALLAHASSEE, FLORIDA  
CHANNEL 30 12.6 KW (DA)

1. The instant application is the initial 90 day ‘checklist’ application for the reassigned facilities of WVUP-CD, Tallahassee, Florida (Ch. 30). It is proposed to replace the existing top-mount antenna with a new top-mount antenna. There antenna radiation center height from 305.2 meters AMSL to 303 meters AMSL. There will be no change in the overall structure height (ASRN 1031203).

2. The proposed maximum directional effective radiated power was adjusted to 12.6 kW to account for differences in the current and proposed antenna height. Although there is some extension of the predicted service area relative to the baseline reassignment facility listed in the FCC’s *Closing and Reassignment Public Notice*, the extension will not exceed 1% in any direction. The proposed facility is also compliant with the 95% population service requirement. See attached FCC *TVStudy* analysis exhibit. Also, the proposal complies with the city coverage requirements as demonstrated in the Predicted Coverage Contours exhibit.

3. As also indicated in the *TVStudy* analysis, the proposal complies with the FCC’s interference requirements based on the FCC’s *TVStudy* program. A cell size of 2.0 km and a profile resolution of 1.0 points/km were utilized for the *TVStudy* analysis.

4. 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 259 meters above ground level. The total DTV ERP is 12.6 (horizontal polarization). A worst case vertical plane relative field value of 1.0 is presumed for the antenna’s downward radiation. The calculated power density at a point 2 meters above ground level is  $6.4 \text{ uW/cm}^2$  which is 1.7% of the FCC’s recommended limit of  $379.3 \text{ uW/cm}^2$  for channel 30 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 marked with RFR warning signs. Furthermore, 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.