

**Human Exposure to Radiofrequency Electromagnetic Field
&
Section 106 Compliance
(Environmental)**

William W. McCutchen, III, (“McCutchen”), seeks to modify FCC construction permit BNPH-20130724AFZ for Channel 278C2, Facility ID No. 191504, Mertzon, Texas. McCutchen proposes to change the transmit location. The new application site is an existing tower, 152.4 meters in overall height and registered with Antenna Structure Registration ("ASR") number 1041534. The application site coordinates are 31° 15' 24.4" North Latitude and 100° 51' 50.6" West Longitude (NAD27). Channel 278C2, Mertzon, TX will operate with a 6 bay full wave side mounted ERI Model LP-6C circularly polarized antenna operating with 36.0 kilowatts ERP at 174 meters HAAT and a center of radiation of 106.7 meters above ground level. No modifications to the tower are being proposed. Therefore it is believed that this proposed facility is exempt from a Section 106 review by the SHPO/THPO.

The proposed Channel 278C2 operation was evaluated for human exposure to RF energy using the procedures outlined in the Commission’s OET Bulletin Number 65. Using the FM Model for Windows the predicted power density near the tower at two meters above ground level attributable to the proposed facility is 14.989 $\mu\text{W}/\text{cm}^2$ at 33 meters, which is 7.495 percent of the general population/uncontrolled maximum permitted exposure limit and 1.499 percent of the limit for “controlled” environments.

The applicant will cooperate with other users of the tower to reduce power of the facility, or discontinue operation, as necessary to limit human exposure to levels less than specified by the Federal Communications Commission during times of maintenance or inspection.