

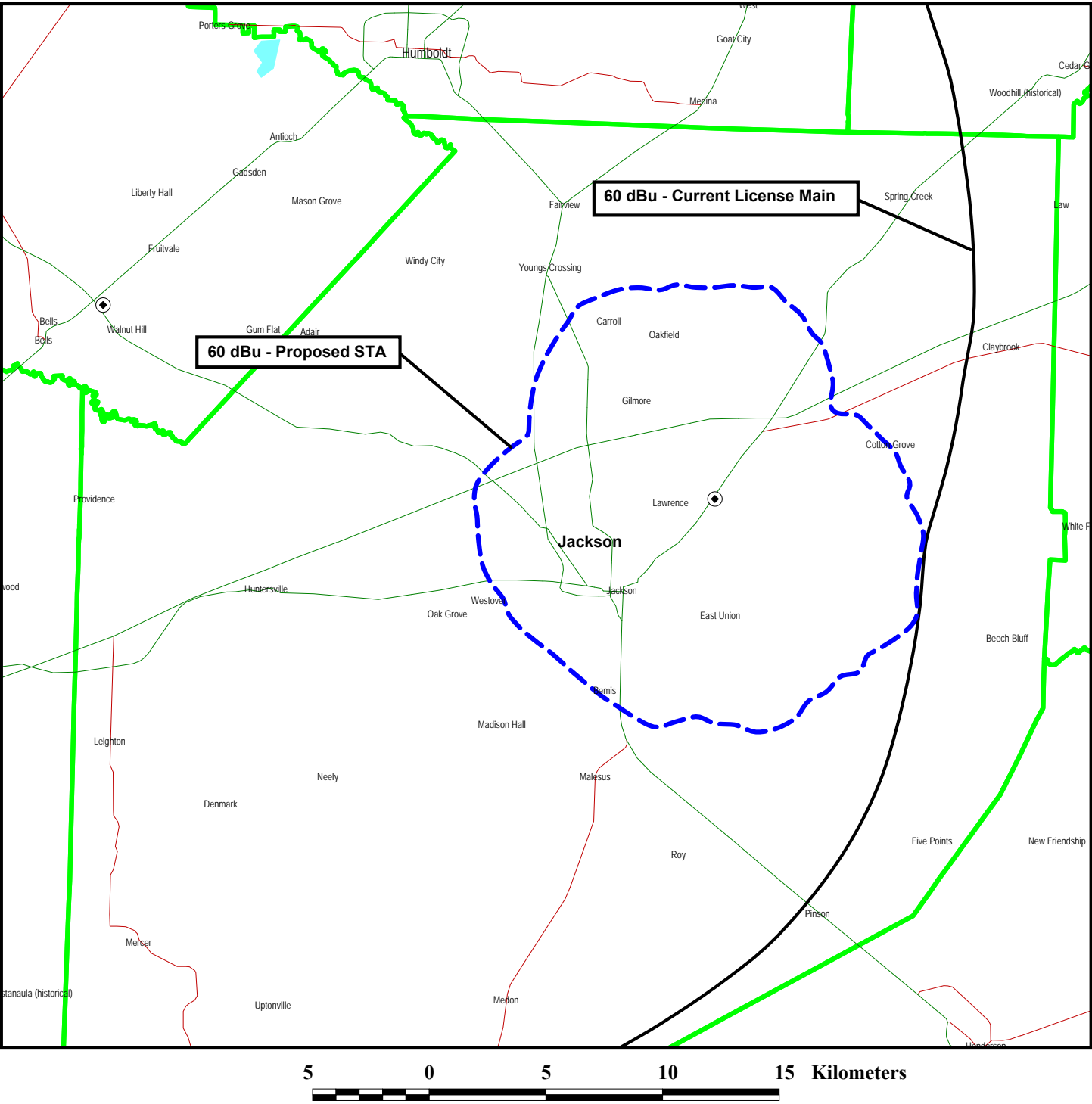
TECHNICAL SUMMARY  
APPLICATION FOR AN STA  
FM STATION WTJS  
ALAMO, TENNESSEE  
CH 226C3 (93.1 MHZ) 0.15 KW (ND) 66 M

1. Circumstances Requiring STA: The WTJS tower was hit by lightning resulting in the antenna becoming inoperable which necessitated this STA. The proposed STA operation will be from an existing 97.1 meter (318.6 foot) tower (ASRN 1043942) with a nondirectional ERP of 0.15 kW, an RCAGL of 38 meters (125 feet), an RCAMSL of 198 meters (651 feet) and an HAAT of 66 meters (216 feet).

2. The herein proposed STA 60 dBu contour will be located entirely within the licensed 60 dBu as shown on the attached Figure 1.

3. RFR Compliance: The proposed STA facilities were evaluated in terms of potential radio frequency (RF) energy exposure at ground level to workers and the general public based on the FCC's FM Model software. It is proposed to side-mount an ERI 1-bay antenna at the 38 meter (125 foot) level on the existing tower. The total ERP is 0.3 kW (horizontal and vertical polarization). Presuming a worst-case vertical plane relative field value of 1.0, the maximum power density will be  $7.7 \text{ uW/cm}^2$  which is only 3.9% of the FCC's recommended limit of  $200 \text{ uW/cm}^2$  for FM stations for an uncontrolled environment. Thus, it is believed that the WTJS STA facility is in full compliance with the FCC's requirements with regard to radio frequency radiation exposure. Access to the transmitting site is restricted and appropriately marked with RFR warning signs. Furthermore, as this is a multi-user site, a protocol shall be 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 RF energy exposure.

Figure 1



**PROPOSED STA OPERATION**

STATION WTJS  
ALAMO, TENNESSEE  
CH 226C3 0.15 KW 66 M

du Treil, Lundin & Rackley, Inc. Sarasota, Florida