

Radiofrequency Electromagnetic (RF) Measurements

KKLV is built on an existing communications site shared by several other broadcasters, and is combined with station KUER-FM (FIN 69171). Educational Media Foundation (“EMF”) engineer Stephen Guye used EMF’s Narda SRM-3000 RFR measurement equipment¹ to evaluate RF compliance at the KKLTV transmitter site. Mr. Guye performed the measurements on January 3, 2014, with KKLTV operating at the power authorized by the Construction Permit (File Number BPH-20080331AKP).

In performing the measurements, Mr. Guye slowly walked from the base of the tower to approximately 100m from the tower (terrain permitting) along eight approximately equally-spaced radials. As he walked, he slowly moved the probe between 2 and 8 feet above ground, and from side to side, seeking the highest readings. As he walked, Mr. Guye noted the highest “overall” readings as well as the highest readings for KKLTV only. In several directions, there are steep terrain areas which prevented Mr. Guye from continuing to the full 100 meters.

In addition to the eight radials, Mr. Guye also carefully investigated the area nearest the KKLTV transmit antenna.

The highest reading found from all facilities at any location was 77.75% of the uncontrolled/public exposure limits of OET-65. The maximum reading found for KKLTV only was 1.92% of the uncontrolled/public exposure limit. These results are within the FCC guidelines for human exposure to RF fields.

Therefore, KKLTV respectfully requests that Program Test Authority be granted.

¹ Instrument: Narda SRM-3000, Serial Number C-0020, Calibration due 1/30/2014
Probe: Narda 3AX 50M-3G, Serial Number C-0010, Calibration due 2/1/2014