

Radiofrequency Electromagnetic (RF) Measurements

KVKL is built on an existing communications site shared by other broadcasters. Southern Nevada Educational Broadcasters (“SNEB”) retained engineer David Smith to evaluate RF compliance at the KVKL transmitter site. Mr. Smith performed the measurements on September 23, 2010, using a Narda NBM-550 RFR measurement instrument with shaped probe model EA5091 (serial numbers B-0755 and 01057, and calibration-due dates of July 21, 2011 and June 19, 2011, respectively). These measurements were performed with KVKL operating at the power authorized by the instant Construction Permit (File Number BPED-20100204ACO).

In performing the measurements, Mr. Smith slowly walked the accessible areas around the base of the tower to approximately 100m from the tower. 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. Smith noted the highest “overall” readings as well as the highest readings for KVKL only. The instrument simultaneously records the peak and average RF values along with the location as indicated by the built-in GPS unit.

The highest peak reading found from all facilities was 43.495% of the uncontrolled/public exposure limits of OET-65. The maximum average reading was 20.425% of the same limit. These results are within the FCC guidelines for human exposure to RF fields.

Therefore, KVKL fully complies with the Commission’s requirements regarding radiofrequency electromagnetic (RF) exposure.