

Radiofrequency Electromagnetic (RF) Measurements

KLMD is built on an existing communications site shared by several other broadcasters. Consulting engineer Bill Schey used Narda NBM-550 RFR measurement equipment¹ to evaluate RF compliance at the KLMD transmitter site. Mr. Schey performed the measurements on January 7, 2014, with KLMD operating at the power authorized by the Construction Permit (See File Number BPH-20120210AAH).

In performing the measurements, Mr. Schey 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. The equipment continuously records location data as well as peak and average values expressed as a percentage of OET-65 limits. In several directions, there are terrain areas which prevented Mr. Schey from continuing to the full 100 meters.

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

The maximum instantaneous reading found from all facilities was 76.55% of the uncontrolled/public exposure limit of OET-65, with a maximum time-averaged reading of 52.13% of the uncontrolled limit. These results are within the FCC guidelines for human exposure to RF fields.

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

¹

Instrument: Narda NBM-550, Serial Number B-0760, calibration due 12/17/2014
Probe: Narda EA5091, Serial Number 01058, calibration due 12/19/2014