

Environmental Effects

Educational Media Foundation (“EMF”) certifies that KLWR complies with the maximum permissible radiofrequency electromagnetic exposure limits for controlled and uncontrolled environments.

On May 11, 2022, Ron Huckleby, Engineer for Educational Media Foundation, used EMF’s “shaped probe” Narda RFR measurement equipment¹ to evaluate radiofrequency exposure compliance at the KLWR transmitter site. KLWR and KAWR were both operating at their fully permitted effective radiated power of 1kw and 1.3kw respectively while these tests were made.

Measurements were taken at the base of the tower and at various points around the tower compound. The probe was slowly swept between 1-2 meters above the ground as well as approximately 1 meter side-to-side while the readings were recorded. The locations of the readings are seen on the attached Google Earth map.

The meter was set to take instantaneous and time averaging readings. The highest instantaneous reading was found to be 92.35% of the uncontrolled/public exposure limits of OET-65. At this same location the average reading was 53.25% of the uncontrolled/public exposure limits. At no point did the instantaneous or average RF levels exceed the uncontrolled/public exposure limits. The majority of the readings were well under the uncontrolled/public exposure limits of OET-65.

Since these values are below the FCC limits for uncontrolled human exposure to RF fields, no fencing or warning signs are required.

Based on this evaluation, KLWR fully complies with the FCC’s maximum permissible radiofrequency electromagnetic exposure limits for controlled and uncontrolled environments.

¹ Instrument: Narda NBM-550, Serial Number E-0552, Calibration date 07/21/2021
Probe: Narda EA5091, Serial Number 01057 Calibration date 07/21/2021

KLWR/KAWR RF Measurement Paths

Legend
📍 KLWR/KAWR

0m 100m

