

Environmental Effects

Educational Media Foundation (“EMF”) certifies that K203EY complies with the maximum permissible radiofrequency electromagnetic exposure limits for controlled and uncontrolled environments.

The RF worksheet in the Instructions to form 303-S was unusable to determine compliance for this facility due to the “worst-case” nature of the worksheet. K203EY is located with multiple FM and Television facilities. Therefore, EMF did an on-site RF study to determine compliance for this site.

On May 4, 2021, Ron Huckeby, Engineer for Educational Media Foundation, used EMF’s “shaped probe” Narda RFR measurement equipment¹ to evaluate radiofrequency exposure compliance at the K203EY transmitter site. K203EY was operating at its fully permitted effective radiated power of .205kw while these tests were made.

The RF Measurement probe was slowly swept between 1-2 meters above the ground, as well as approximately 1 meter side-to-side, seeking, and noting, the highest overall readings. The highest overall peak reading found during these measurements was 79uw/cm² which is 39.5% of the uncontrolled/public exposure limits of OET-65. The meter was also set to do time averaging which resulted in a maximum average of 69uw/cm² which is 34.5% of the uncontrolled/public exposure limits of OET-65.

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

Based on this evaluation, K203EY fully complies with the FCC’s maximum permissible radiofrequency electromagnetic exposure limits for controlled and uncontrolled environments.

¹ Instrument: Narda NBM-550, Serial Number A-0227, Calibration date 05/01/2020
Probe: Narda EA5091, Serial Number 01018 Calibration date 05/01/2020

