TECHNICAL STATEMENT IN SUPPORT OF LICENSE RENEWAL DTV STATION KASY-TV ALBUQUERQUE, NEW MEXICO FACILITY ID 55049 CH 45 245 KW-DA 1287 M

This technical statement was prepared in support of the license renewal application for DTV station KASY-TV at Albuquerque, New Mexico. Specifically, the purpose of this technical statement is to provide information demonstrating that the operation of KASY-TV complies with the maximum permissible radiofrequency electromagnetic exposure limits for controlled environments.

DTV station KASY-TV is licensed (BLCDT-20030429ABF) to operate on channel 45 (656-662 MHz) with a directional antenna (DA) maximum effective radiated power (ERP) of 245 kilowatts (kW), an antenna radiation center height above mean sea level (RCAMSL) of 3301 meters, an antenna radiation center height above ground level (RCAGL) of 67 meters and an antenna height above average terrain (HAAT) of 1287 meters. A Dielectric model TUD-05-8/40H-T, horizontally polarized, directional antenna is employed.

The licensed KASY-TV facilities were evaluated in terms of potential radiofrequency radiation (RFR) exposure at ground level at the base of the tower in accordance with OST Bulletin No. 65, "Evaluating Compliance With FCC-Specified Guidelines for Human Exposure to Radiofrequency Radiation." This Bulletin provide assistance in determining whether FCCregulated transmitting facilities, operations or devices comply with limits for human exposure to radiofrequency (RF) electromagnetic fields adopted by the Commission in 1996.¹

The calculated power density at the base of the KASY-TV tower was calculated using the appropriate equation of the Bulletin. Using a conservative vertical plane relative field value of 0.15 for depression angles below 45 degrees, a total ERP of 245 kW and an antenna center of radiation height above ground level of 67 meters, the calculated power density at two meters above ground level at the base of the tower is 1.21 microwatts per square centimeter (uW/cm^2), or 0.055 percent of the Commission's recommended limit applicable to "controlled" exposure areas (2196.7 uW/cm^2 for TV channel 45).

¹ See Report and Order in ET Docket 93-62, FCC 96-326, adopted August 1, 1996, 11 FCC Rcd 15123 (1997). See also First Memorandum Opinion and Order, ET Docket 93-62, FCC 96-487, adopted December 23, 1996, 11 FCC Rcd 17512 (1997), and Second Memorandum Opinion and Order and Notice of Proposed Rulemaking, ET Docket 93-62, FCC 97-303, adopted August 25, 1997.

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It is 0.28% of the recommended limit for "uncontrolled" exposure areas (439.3 uW/cm2).

The New Mexico Broadcasters Association contracted for RF measurements at the Sandia Crest site, which is considered a "controlled" site. The measurements were performed by the consulting engineering firm of Hammett & Edison, Inc. The results were provided in their report dated September 6, 2013 (copy attached). The report demonstrates KASY-TV's compliance with the FCC's RF standards.

Based on the above, it is believed that KASY-TV is in compliance with the FCC's requirements with regard to radio frequency radiation exposure.

Access to the transmitting site is restricted and appropriately marked with warning signs. Furthermore, a protocol is in effect to control access to the site. In the event that workers or other authorized personnel enter the restricted area appropriate measures shall be taken to limit RF energy exposure. Such measures include limiting the exposure time, wearing protective clothing, reducing power to an acceptable level or termination of transmitter output power all together until workers leave the restricted area.

If there are questions concerning the technical portion of this application, please contact the office of the undersigned.

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