HUMAN EXPOSURE TO RADIOFREQUENCY ELECTROMAGNETIC FIELDS COMPLIANCE STATEMENT IN CONNECTION WITH AN APPLICATION FOR A MINOR CHANGE IN LICENSE TO CHANGE CHANNELS AS PURSUANT TO THE FCC CLOSING AND CHANNEL REASSIGNMENT PUBLIC NOTICE (CCRPN) RELEASED ON 4/13/2107.

ENVIRONMENTAL IMPACT

DTV station KASY-TV is licensed (FCC File No.: 0000004460) to operate on channel 45 (656-662 MHz) with a directional antenna (DA) having a maximum Effective Radiated Power (ERP) of 245 kilowatts (kW), an antenna radiation center height above ground level (RCAGL) of 67 meters. A Dielectric model TUD-O5-8/40H-T, horizontally polarized, directional antenna is employed.

The CCRPN assigned KASY to channel 36 for the post transition operation and is herein proposed to operate at an ERP of 205 kW. It is proposed to utilize the licensed broadband Dielectric TUD-O5-8/40H-T antenna for the post transition operations. Relative to the licensed facility no other physical technical changes besides channel and power are proposed.

KASY-TV is located at the Sandia Crest antenna farm, which is considered a “controlled” site. 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.

The KASY-TV facilities were evaluated below in terms of potential radiofrequency radiation (RFR) exposure at 6 feet above 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 FCC regulated transmitting facilities, operations or devices comply with limits for human exposure to radiofrequency (RF) electromagnetic fields adopted by the Commission in 1996.

Licensed Facility

The calculated power density at the base of the currently licensed channel 45 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 43.59 (μW/cm2), 1.98% of the Commission's recommended limit applicable to “controlled” exposure areas.

Proposed Facility

The calculated power density at the base of the proposed channel 36 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 205 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 38.96 (μW/cm2), 1.93% of the Commission's recommended limit applicable to “controlled” exposure areas.

Conclusion

As demonstrated above the proposed facility shall reduce the power density in all directions relative to the licensed facility. It is thus believed that the proposed KASY-TV Channel 36 facility will have no significant environmental impact as defined in §1.1307 of the FCC Rules.