

## EXHIBIT 46

### COMPLIANCE WITH RADIOFREQUENCY RADIATION GUIDELINES

The proposed KLDT-DT installation will be co-located with other broadcast facilities. The site will, therefore, be considered a “multiple use” site.

The proposed KLDT-DT antenna is an existing Dielectric Model TFU-31E/V-R. The antenna is currently being used by the analog operation of KXTX-TV. Upon completion of the digital transition it will be used for KLDT-DT. Since this is an existing analog antenna that is merely being switched to digital service, no alteration of the existing Antenna Structure Registration data will be required.

The antenna is mounted with its center of radiation 454 meters above ground, making it 452 meters above an observer on the ground, who is assumed to be 2 meters tall. A maximum effective radiated power of 1000 kW (1,000,000 watts) has been proposed using elliptical polarization. Since this antenna is not currently in the possession of KLDT-DT, the exact power division between polarizations is unknown. For purposes of this study, circular polarization has been assumed to assure a “worst-case” scenario study.

Equation 10 of OET Bulletin No. 65 can be used to predict the potential exposure to radiofrequency radiation for human observers on the ground as indicated by total power density expressed in units of  $\mu\text{W}/\text{cm}^2$ . This equation states:

$$S = \frac{33.4(F^2)ERP}{R^2}$$

where:      S = Total Power Density in units of  $\mu\text{W}/\text{cm}^2$   
               F = Relative Field of Pattern  
               ERP = Effective Radiated Power in Watts  
               R = Distance in Meters

The standard procedure for RF exposure studies considers all locations within 315 meters of the base of the supporting structure. With the proposed antenna mounted 452 meters above an observer on the ground, the depression angle at this distance is  $55.1^\circ$ . Data from the antenna manufacturer for this exact antenna was not readily available at the time of the application. However, data from similar Dielectric antennas showed relative field values of less than 0.100 throughout the range of relevant depression angles. However, to assure a truly “worst case” scenario, a relative field of 0.200 has been assumed for F in this study. Using an ERP = 2,000,000 watts and setting R = 452 meters, the above formula computes a worst case S of  $13.0785 \mu\text{W}/\text{cm}^2$ .

At Channel 39, 620-626 MHz, the limit for human exposure to non-ionizing radiofrequency radiation for areas that can be accessed by the general public is found by dividing the channel center frequency, 623 MHz, by 1500. This yields a value of 0.4153 mW/cm<sup>2</sup> or 415.3 μW/cm<sup>2</sup>. The limit for areas classed as occupational exposure is five times this value or 2,076.7 μW/cm<sup>2</sup>.

As noted above, the worst case exposure to any person on the ground is 13.0785 μW/cm<sup>2</sup>. This represents 3.15% of the general public limit and 0.63% of the occupational limit.

Chapter 47 of the Code of Federal Regulations, §1.1307(b)(3) states: *“In general, when the guidelines specified in §1.1310 are exceeded in an accessible area due to the emissions from multiple fixed transmitters, actions necessary to bring the area into compliance are the shared responsibility of all licensees whose transmitters produce, at the area in question, power density levels that exceed 5% of the power density exposure limit applicable to their particular transmitter or field strength levels that, when squared, exceed 5% of the square of the electric or magnetic field strength limit applicable to their particular transmitter. Owners of transmitter sites are expected to allow applicants and licensees to take reasonable steps to comply with the requirements contained in §1.1307(b) and, where feasible, should encourage co-location of transmitters and common solutions for controlling access to areas where the RF exposure limits contained in §1.1310 might be exceeded.”* Should the level of radiofrequency radiation at the proposed multiple use site ever exceed the FCC guidelines, the proposed KLDT-DT facility is categorically exempt from responsibility for bringing the shared transmitter site into compliance because its contribution is less than 5.0% of the applicable limit.

The facility is properly marked with signs, and entry is restricted by means of fencing with locked doors and/or gates. Any other means as may be required to protect employees and the general public will be employed. In the event work would be required in proximity to the antenna such that the person or persons working in the area would potentially be exposed to fields in excess of the guidelines, the station will cooperate with other licensees at the site to reduce power or cease operation during the critical period.