

## Exhibit 12

### Compliance with Radiofrequency Radiation Guidelines

The proposed digital low power television antenna will be an ERI Model AL8. The antenna will be mounted with its center of radiation 61.0 meters (200 feet) above ground, making it 59.0 meters above an observer on the ground, who is assumed to be 2 meters tall. A maximum effective radiated horizontally polarized power (ERP) of 0.215 kW (215 watts) is requested.

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

In the case of the instant application, a relative field value of 0.300 was used as a “worst case” scenario. The ERP was set equal to 215 watts, and a distance of 59.0 meters was used, which would be the antenna height above a 2 meter tall observer standing at the base of the tower. This is also the shortest possible distance from an observer on the ground to the antenna. Solving the above equation for S yields a total power density of  $0.1857 \mu\text{W}/\text{cm}^2$ .

At Channel 14, the FCC guideline for uncontrolled environments is found by dividing the center frequency of the channel, 473 MHz, by 1500. This gives a maximum allowable exposure of  $0.3153 \text{ mW}/\text{cm}^2$ , or  $315.3 \mu\text{W}/\text{cm}^2$ . Thus, the maximum predicted total power density from the proposed installation will be 0.06 % of the limit for uncontrolled environments. At this frequency, the limit for uncontrolled environments is one-fifth of the limit for controlled environments. Therefore, the predicted exposure level is 0.01 % of the limit for controlled environments.

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 site ever exceed the FCC guidelines, the proposed digital low power television 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.