

Attachment 49
Environmental Considerations
KXLN License Partnership, L.P.
KXLN-DT Rosenberg, TX
Ch 45 340 kW-DA 579 m

This application proposes an auxiliary transmitting facility to be located at the multiple-user tower owned by Richland Towers. No physical construction is proposed outside the existing transmitter building. An existing broadband antenna will be used. Sharing of sites located in areas where other towers are present is environmentally preferred.

Operation is proposed on channel 45, with its center frequency of 659 MHz yielding a radiofrequency radiation exposure guideline value of $439 \mu\text{W}/\text{cm}^2$ for the general population. The RFS PHP80U22211E antenna, with its radiation center 574.5 meters above ground level, has a maximum downward radiation value, at depression angles of 60° or higher, of 0.0284 (see Attachment 46) at 61° . Consequently, the worst-case predicted exposure level at 2 meters above ground level is $0.028 \mu\text{W}/\text{cm}^2$, 0.01% of the guideline value and far below the “responsibility threshold” of 5%. Access to the site and tower base is restricted by fencing, with appropriate warning signage. A formal radiofrequency radiation exposure management protocol is in effect at this site for access to and maintenance of the tower structure and the antennas attached thereto.

20 December 2010

A handwritten signature in black ink, appearing to read 'Karl D. Lahm', written over a horizontal line.

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