

Attachment 46  
Environmental Considerations  
**Telefutura Dallas LLC**  
KSTR-DT Irving, TX  
Ch 48 1000 kW-DA 535m

This application proposes continued use of the present KSTR-TV/KSTR-DT transmitter site, which is a multiple-user facility owned by Richland Towers, Inc. No physical construction is proposed outside the existing transmitter building. Use of shared sites located in areas where other towers are present is environmentally preferred. Implementation of this proposal will result in a 59% reduction in radiated energy with respect to the current analog and transitional digital facilities of this station at this site.

Operation is proposed on channel 48, with its center frequency of 677 MHz yielding a radiofrequency radiation exposure guideline value of  $451 \mu\text{W}/\text{cm}^2$  for the general population. The Dielectric TFU-30GTH-R S200DC antenna radiation center is 490 meters above ground level. Its maximum downward radiation value, at depression angles of  $60^\circ$  or higher, of 0.046 at  $63^\circ$ . Consequently, the worst-case predicted exposure level at 2 meters above ground level is  $0.297 \mu\text{W}/\text{cm}^2$ , 0.07% 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.

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