

**Exhibit E-16**

The proposed facility would not constitute a significant environmental impact, and should be exempt from environmental processing. The proposed facility would utilize an existing tower which is registered with the Commission. The addition of the K291AX antenna to this structure would not increase the existing environmental impact from the tower.

In addition to K291AX, the tower also supports the antenna for KANS(FM) at Emporia, Kansas. KANS is a class A facility operating with an effective radiated power of 6 kW at a center of radiation of 112 meters above ground level. The CDBS also specifies that KANS is utilizing an ERI LPX-6E antenna. From this information, the Commission's FM Model software package predicts a maximum power density of  $2.258 \mu\text{W}/\text{cm}^2$  at a distance of 36 meters from the base of the tower for KANS(FM).

The K291AX facility would utilize a Shively 6812-3 antenna. This antenna is to be mounted with the center of radiation at 93.3 meters AGL. FM Model predicts the maximum power density from the translator to be  $0.189 \mu\text{W}/\text{cm}^2$  at a distance of 48 meters from the base of the tower.

In order to provide a worst case scenario for the facility, the assumption will be made that the maximum predicted power density from each facility will occur at all points. The maximum predicted power density for the facility is therefore  $2.45 \mu\text{W}/\text{cm}^2$ . This value, assumed to occur at all locations, is considerable less than the maximum permissible value of  $200 \mu\text{W}/\text{cm}^2$  permitted under the uncontrolled environment condition of the applicable safety standards. The proposed

facility in conjunction with other broadcast facilities located on the structure would therefore not present an RF exposure hazard to persons.

The applicant certifies that it will coordinate with other users of the site to ensure that workers having access are protected from being exposed to levels of radiofrequency radiation in excess of the applicable safety standards. Such coordination will include, but is not necessarily limited to, a reduction in power or cessation of operation during maintenance periods.