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Prepared for KORE Broadcasting, LLC
K239CM – Eugene, Oregon

RADIOFREQUENCY FIELDS

An engineering analysis was performed to determine whether the facilities proposed herein comply with the Maximum Permissible Exposure standards outlined in 47CFR1.1310 as regards human exposure to radiofrequency electromagnetic fields and whether environmental processing would be required.

The applicant proposes to operate at 0.25 kilowatts, circularly polarized, using a Bext TFC2K antenna mounted at the 40-meter level of an existing 85-meter tower located in the Blanton Heights antenna farm, south of Eugene, Oregon. This antenna consists of two, circularly polarized radiating elements spaced 0.528 wavelengths apart.

The point of closest approach to the antenna is directly beneath it. The proposed facility shares the same antenna support structure with KRVM-FM, KEQB(FM) and K229DC and shares an antenna with K282CA.

The Commission's FMModel computer software was used to calculate the radiofrequency electromagnetic power density in a plane 2 meters above ground level. A copy of the graphical output of this program is attached.

The Bext TFC2K is electrically identical to the Jampro Penetrator style element, which elevation pattern data was used.

The highest power density occurs at a point 75 meters from the base of the tower and is equal to 1.13 μW/cm^2. This represents 0.57% of the general public/uncontrolled MPE standard.

Appropriate signs will be installed at the base of the tower warning workers and others that the maximum permissible exposure standard may be exceeded at locations on the tower.

Because this is less than 5% of the appropriate MPE standard, the applicant's contribution to the ambient radiofrequency electromagnetic power density need not be considered in calculations by others, nor would the applicant be required to participate in any remediative actions that might be necessary were it determined that the MPE standard was exceeded in areas due to the operation of others.

The applicant believes that the facilities proposed herein conform to the MPE standards outlined in 47CFR1.1310 and that environmental processing is not warranted.