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KUMS, White Sulphur Springs, Montana

### 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 0.15 kilowatts, circularly polarized, using a Jampro JLLP-1 antenna mounted at the 8-meter level of an existing 12.5-meter pole. This antenna consists of a single radiating element.

The antenna support structure is located at the apex of a local promontory. The base of the tower is accessible to the general public.

The Commission's FMModel computer software was used to calculate the radiofrequency electromagnetic power density in a plane 2 meters AGL as a function of the distance from the antenna support structure. The Jampro JLLP antenna is an "Opposed V-Dipole" style element, which elevation pattern data was selected. A copy of the graphical output of this program is attached.

The highest power density occurs at a point 6 meters from the base of the tower and is equal to  $77 \mu\text{W}/\text{cm}^2$ . This represents 38.5% 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.

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

