

EXHIBIT #22

ENVIRONMENTAL PROTECTION ACT R.F. EMISSION COMPLIANCE STATEMENT

UNIVERSITY OF WYOMING
New Station Application
Kaycee, Wyoming
October 2007

CH 204A

2.0 kW H & V

The applicant proposes the use of an existing unregistered tower. The tower was constructed before March 2001 and is therefore excluded from further environmental processing.

The proposed four-bay, circularly polarized antenna will be energized such that it produces 2.0 kW effective radiated power from a center of radiation of 10.2 meters above ground. Using the formulas expressed in the OET Bulletin, No. 65, August 1997, "Evaluating Compliance with F.C.C. Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields", published by the Federal Communication Commission's Office of Science and Engineering, and then by applying a combination of the element and array pattern as defined in E.P.A. study PB85-245868 ("**Engineering Assessment of the Potential Impact of the Federal Radiation Protection Guidance on the AM, FM and TV Broadcast Services**") the predicted level of RF non-ionization emissions at a position of 2 meters above ground (head-height) at the base of the tower for the proposed 4-bay Shively 6800 series (Type #6) antenna is 9.937 microwatts per square centimeter ($\mu\text{W}/\text{cm}^2$), which is 0.99 percent of the maximum for a controlled area and 4.97 percent of maximum for an uncontrolled area. At a distance of 4 meters from the base of the tower, where the RF emissions levels are predicted to be at their peak, the level is $142.62 \mu\text{W}/\text{cm}^2$, which is 713 percent of the maximum for an uncontrolled area.

A search of the ULS and Mass Media Bureau databases identified no other sources of RF emissions on the tower.

The applicant will protect workers on the tower by either reducing ERP or terminating transmission.

Consequently, it appears that the proposed FM station will be in full compliance with the Commission's human exposure to radiofrequency electromagnetic field rules and regulations.