

ENVIRONMENTAL COMPLIANCE
KWCN PINEDALE, WYOMING, CH. 210A
WCN, INC.
FCC FORM 340
SEPTEMBER 2012

The proposed facility should be exempt from environmental processing as it would be located on an existing structure. The structure on which the antenna would be located is not registered with the FCC, and is 18.3 meters in overall height. In addition, the proposed facility would not constitute a RF exposure hazard to persons at the site.

The proposed facility will utilize a 2 bay, Nicom BKG-77 antenna system, non-directional, circular polarization with 0.75 wavelength spacing between the two bays. The antenna will be located at 6 meters above ground, but for this study, will be calculated at 2 meters less than this above ground to make up the difference for the height of the average human being. The Commission's FM Model software was used to predict the maximum power density. Since the Nicom antenna is not listed in this program, the "Phelps-Dodge Worse Case", EPA type 1, antenna was used. FM model predicts that the maximum power density would be $78.3 \mu\text{W}/\text{cm}^2$ at 0 meters away from the base of the antenna support structure. This level is below the maximum allowed power density level of $200 \mu\text{W}/\text{cm}^2$ for uncontrolled RF exposure requirements.

Since the proposed ERP is less than 100 watts, it is also categorically excluded from environmental processing.

The proposed site is also utilized by KPIN(FM) Pinedale, Wyoming, facility ID 77275 operating on channel 266C3. KPIN operates with a four bay Shively antenna system with 0.85 wavelength spacing between the bays mounted with a Center of

Radiation 11.4 meter above the ground. From FCC records, KPIN produces a maximum power density at any point on the ground of $80 \mu\text{W}/\text{cm}^2$. Even when directly added to the proposed operation of KWCN at the same site, the maximum power density would total $158.3 \mu\text{W}/\text{cm}^2$ at any point on the ground, or still way below the maximum permissible level for uncontrolled areas.

The proposed licensee will cooperate with other users of the site to reduce power or cease operations, as may be necessary, to protect workers and others having access to the site from excessive levels of RF radiation. Fencing and appropriate RF warning signs will also be posted at the site to limit access to the supporting structure to prevent unauthorized access to harmful RF radiation areas.

No RF blanketing interference issues are anticipated, but the proposed licensee will be financially responsible for correcting any RF blanketing issues that might arise from the operation of this new station for a period of one year after the new station becomes operational.