

ENVIRONMENTAL COMPLIANCE
JORDAN, MONTANA CH. 220A
HI-LINE RADIO FELLOWSHIP, INC.
FCC SCHEDULE 340
NOVEMBER 2021

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 a non-registered tower since it is only 43 meters in overall height. Since an existing tower will be used for the facility, there would be no additional environmental impact on the surrounding area. In addition, the proposed facility would not constitute a RF exposure hazard to persons at the site.

The proposed facility will utilize a 3 bay, Nicom BKG77, circular polarization, full-wavelength spaced, non-directional antenna system. The antenna will be located at 40 meters above ground, but for this study, will be calculated at 2 meters less than this height 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. FM Model predicts that the maximum power density would be $40.1 \mu\text{W}/\text{cm}^2$ at 30 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.

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 un-authorized 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.