

EXHIBIT E-2
ENVIRONMENTAL COMPLIANCE
CHEYENNE, WYOMING 294D
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FCC FORM 349
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The proposed facility should be exempt from environmental processing as it would be located on an existing structure. Since an existing tower would 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 Nicom, model BKG77, 1 bay, antenna system that is circular polarized and unidirectional. The antenna will be located 29 meters above ground, but for this study, will be calculated at 2 meters less height to make up the difference for the average human height. The Commission's FM Model software was used to predict the maximum power density using the "Rototiller" or EPA type 3 as the antenna type. The FM model, shown in Figure 1, predicts that the maximum power density would be $0.024 \mu\text{W}/\text{cm}^2$ at 24 meters from the base of the antenna support structure. This level is well below the maximum allowed power density of $200 \mu\text{W}/\text{cm}^2$ for uncontrolled RF exposure requirements.

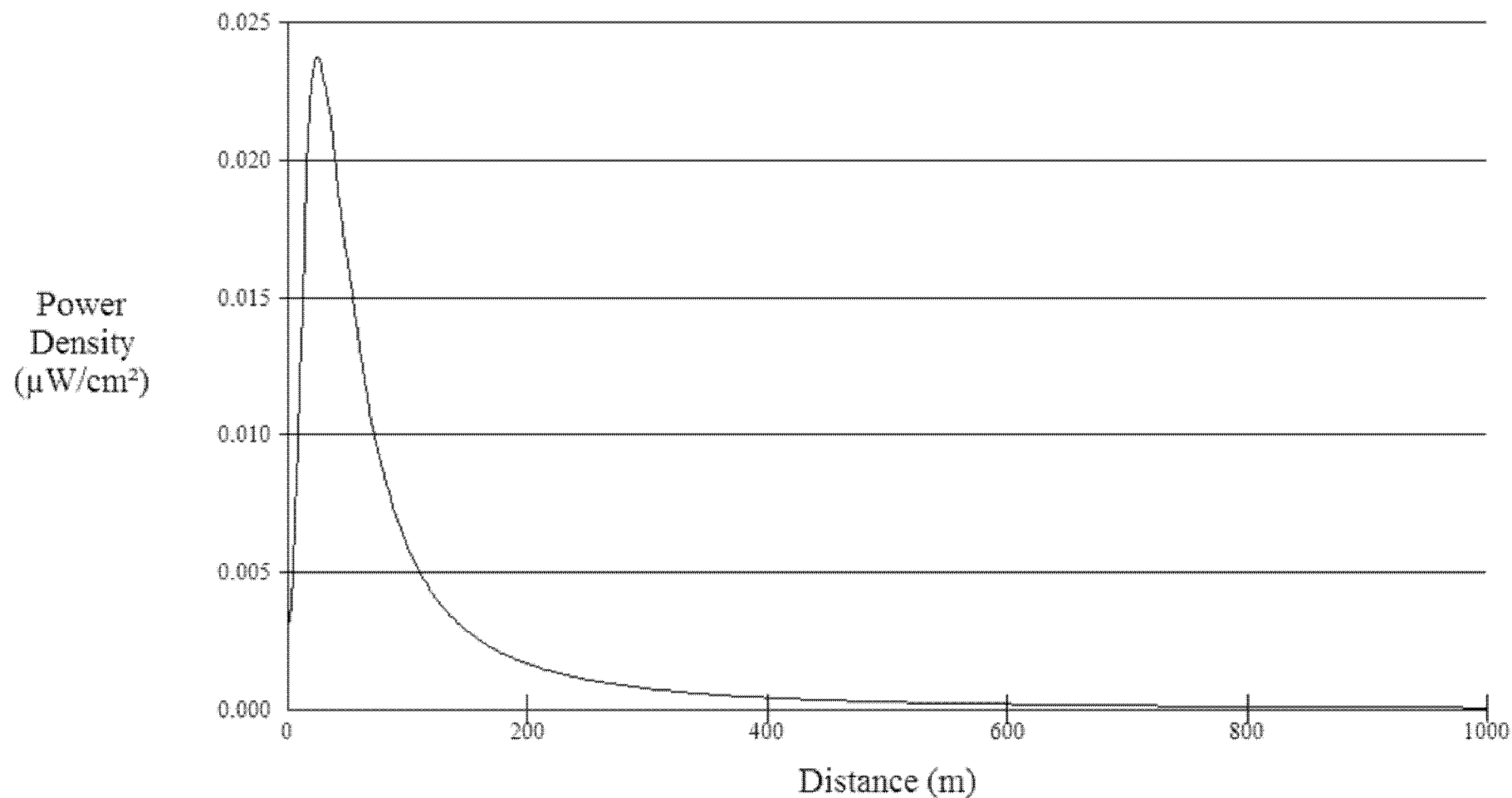
The proposed licensee will cooperate with other users of the site to reduce power or cease operations, as may be necessary, to protect workers and others having access to the site from excessive levels of RF radiation.

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.

Note: The proposed facilities will be shared with translator K277BC Cheyenne, Wyoming on channel 277D and KAIX Cheyenne, Wyoming on channel 201C2. Using the FM Model program used by the Commission shows that the highest power density from K277BC would be $1.273 \mu\text{W}/\text{cm}^2$ at a distance of 34 meters and the highest power density from KAIX would be $103.78 \mu\text{W}/\text{cm}^2$ at a distance of 12 meters. Thus, the worst case overall total from K277BC, KAIQ, and the proposed translator 294D Cheyenne is $105.08 \mu\text{W}/\text{cm}^2$. This level is below the maximum allowed power density of $200 \mu\text{W}/\text{cm}^2$ for uncontrolled RF exposure requirements.

Exhibit E-2, Fig 1, FM Model Study 294D Cheyenne, WY



Office of Engineering and Technology

Distance (m):	<input type="text" value="1000"/>	Antenna Type:	<input (epa)"="" rototiller"="" type="text" value="ERI or JAMPRO JBCP "/>
Horizontal ERP (W):	<input type="text" value="1"/>	Number of Elements:	<input type="text" value="1"/>
Vertical ERP (W):	<input type="text" value="1"/>	Element Spacing:	<input type="text" value="1"/>
Antenna Height (m):	<input type="text" value="27"/>		