

ENVIRONMENTAL COMPLIANCE
WOTH(FM) WILLIAMSPORT, PENNSYLVANIA
BACKYARD BROADCASTING OF PENNSYLVANIA,LLC
AUXILIARY MINOR CHANGE APPLICATION
APRIL 2022

The structure on which the antenna would be located is registered tower, Registration Number 1025012. with an overall height of 91.4 meters. Since an existing communications site 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 Nicom Two Bay, BKG77/M series circular polarization antenna system with 0.85 wavelength spacing between the bays. The antenna will be located at 82.1 meters above ground. 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 "Worst Case", EPA type 1, and antenna was used. FM model predicts that the maximum power density would be $0.0234 \mu\text{W}/\text{cm}^2$ at 14.2 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.

This will be a shared broadband backup auxiliary antenna with co-owned WZXR(FM) South Williamsport, PA, facility ID 61180. It will not be simultaneously utilized by either station.

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 operation commences broadcasting.