

# **Environmental Statement**

## **KWSU-LD Displacement**

### **Washington State University**

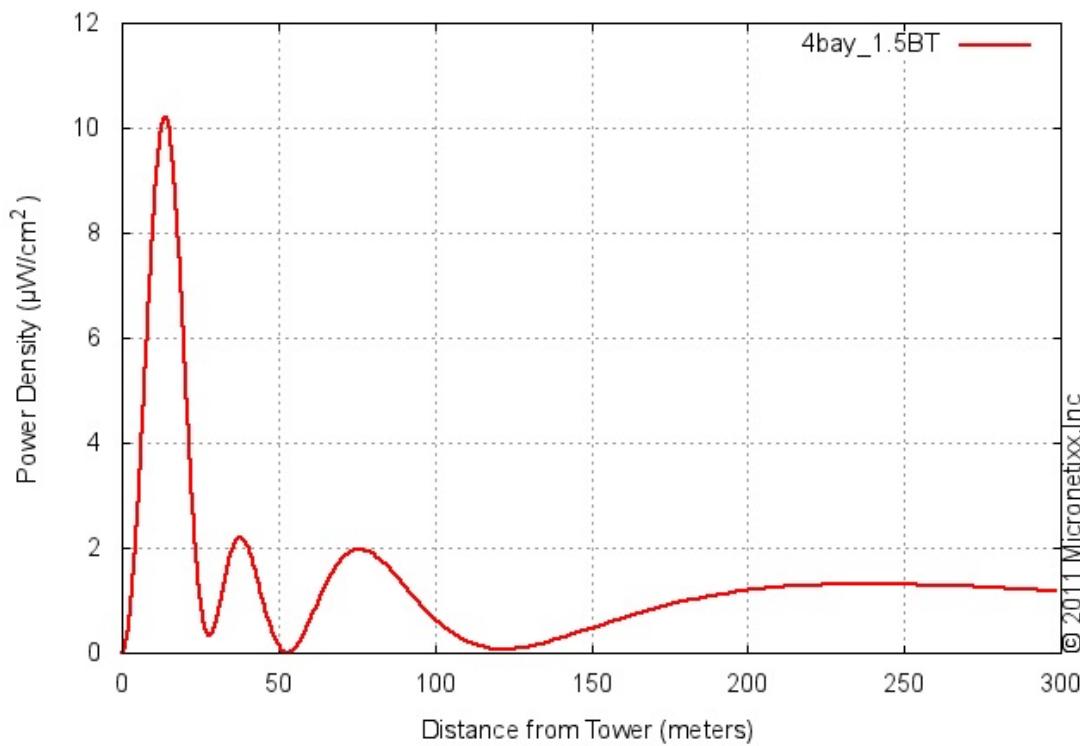
The transmitter site is located on an unpaved private access road approximately 7 km southeast of Spokane, WA. Unauthorized access is prevented by a locked gate 1.5 km from the site. The transmitter will be located in a locked building. The antenna will be mounted on an existing structure at the site. White strobe lighting is not proposed for the tower.

Using software provided by the antenna manufacturer, maximum exposure 2 meters above ground level was determined and is plotted in *Figure 1*. These figures were also validated using the manufacturer's elevation pattern together with OET Bulletin No. 65 equation (10). The greatest exposure occurs at a distance of 10 meters from the base of the tower on the main lobe azimuth and is  $10.1\mu\text{W}/\text{cm}^2$ . This is 2.60% of the general population limit of  $391\mu\text{W}/\text{cm}^2$  at the center frequency of 587MHz, and thus de-minimis. Therefore, the proposed facility will not result in RF exposure to the general public that would exceed the Commission's standards.

The applicant is cognizant of its responsibility to protect those workers whose duties require that they be in the vicinity of the antenna from exposure to radio frequency fields in excess of those outlined above. To that end, signage will be attached to the base of the antenna support structure warning all workers of the potential for harmful exposure and directing them to contact the responsible person at the proposed broadcast station. That person will ascertain whether the worker will be in areas where there is an exposure hazard, and if so, arrange to shut down the transmitter.

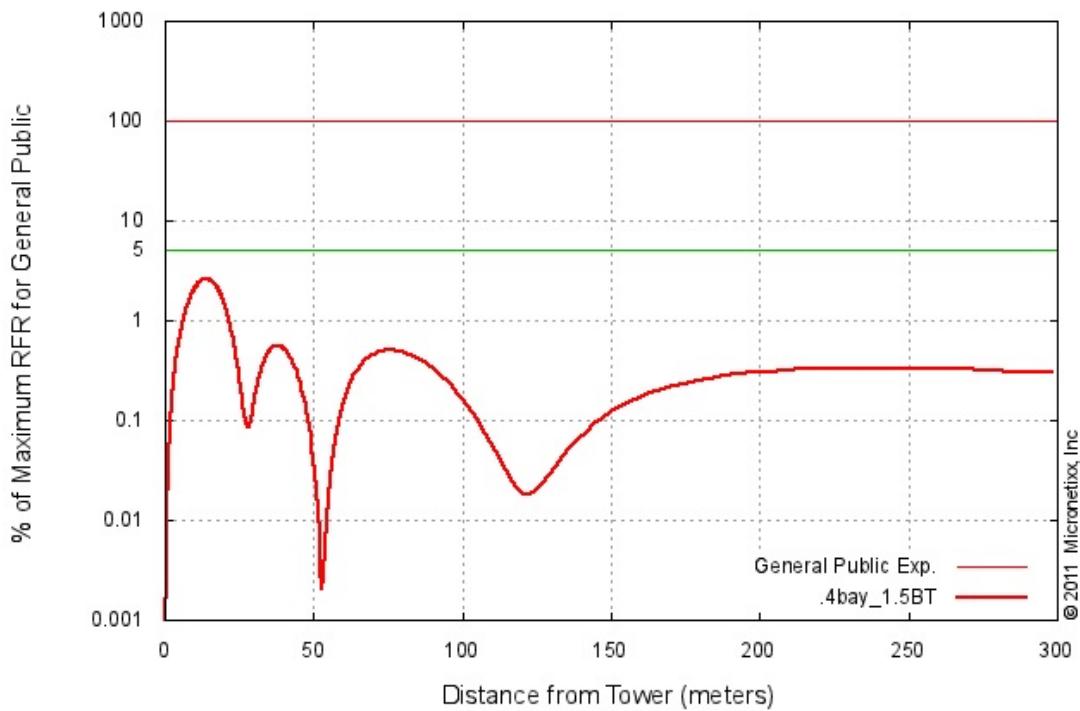
Washington State University has published guidelines for all sites, which includes procedures that protect employees from high levels of radiation. All employees required to work in hazardous conditions are thoroughly trained in RF hazard prevention.

RFR Calculated at 3 kW -- 36 meters FCC OET 65 Reflection coefficient applied



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MPE Calculated at 3 kW -- 36 meters FCC OET 65 Reflection coefficient applied



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**Figure 1 RF Exposure vs. Distance**