

## Bonneville Powerhouse 1 Trashracks

Bonneville Lock and Dam is located 145 miles from the mouth of the Columbia River, approximately 40 miles east of Portland, Oregon. The existing Powerhouse 1 trashracks were originally installed in 1937. The expected service life of trashracks is 40 years. As part of annual maintenance, these trashracks are cleaned and inspected, except the lower racks which are left in place to prevent debris from entering the units. The last time the lower trashracks were removed and inspected was 1983.

The Powerhouse 1 trashracks are over 80 years old, exhibiting corrosion, and may be in danger of failure from deterioration. Rehabilitation/replacement will be phased to inform level of repair needed for each rack. First phase would be to fabricate 18 new replacement racks to be installed at Unit 1. A phased removal and inspection of the trashracks condition would then be conducted. At the end of the rehabilitation process, this project will ensure that there are at least six spare trashracks of each of the replacement and original designs left onsite.