

Dexter Spillway Gate Rehabilitation

The Dexter Dam is located on the Middle Fork of the Willamette River, 20 miles upstream from the city of Eugene, Oregon and 3 miles downstream of the Lookout Point dam. It is a dual-purpose river regulation and power development project, and its principal function is to regulate the fluctuating flows resulting from variable releases of water from Lookout Point. The purpose of this project is to fully rehabilitate the seven gates at Dexter to restore their structural integrity and reliability in accordance with current codes, design criteria, and standards for these critical structures. Spillway Tainter gate girders, strut arms, bracing members and related structural components will be removed and replaced with larger structural members and high strength steel components. Existing welds will be inspected and deficient welds will be replaced. The wire ropes, trunion bearings, wire rope gate connection assemblies, thrust washer, seals and components will be replaced. Electrical, control, and mechanical system repairs will be upgraded or replaced to ensure reliability and to meet current operating guidelines.