

## **John Day Draft Tube Bulkheads and Intake Gates**

The purpose of draft tube bulkheads, intake gates and intake bulkheads is to completely dewater a turbine generator unit. The gates and bulkheads may be used for planned or scheduled maintenance, capital improvements, unscheduled maintenance or even emergency deployment to minimize powerhouse flooding in the case of major equipment or structural failure. Each turbine generator at John Day requires three intake gates or three intake bulkheads and six draft tube bulkheads to completely dewater the unit.

With the current complement of bulkheads and gates, three units can be dewatered at John Day. The additional bulkheads and gates in this investment will allow the simultaneous dewatering of four units, with an additional set of bulkheads and gates available for deployment in an emergency. This capability is particularly important to support the level of work anticipated for John Day in the future.