

# The Dalles Dam Spillway Gantry Crane Rehabilitation

The Dalles, Oregon

**Owner:** USACE, Portland District

**Description:** INCA Engineers, Inc., A Tetra Tech Company (INCA) reviewed the existing crane's data and drawings and prepared an inspection plan including applicable checklists. Site inspection of this 1950s crane included the structures, hoists, gantry and trolley drives, motors and controls, operator's cab, onboard diesel generator power source and fuel supply, lifting beam, crane rail wear and damage, wire ropes, brakes, painting requirements, and power and lighting circuits. INCA performed sampling and testing of materials for asbestos and lead.

A report containing the results of the field inspection, condition assessment, and alternative refurbishment plans with recommendations and cost estimates was submitted to the client. All electrical systems were slated to be replaced, including the onboard 100kw diesel generator and power distribution. Variable frequency drives replaced the existing magnetic controllers, and all mechanical systems were refurbished.

