

# BAKER LAKE FLOATING SURFACE COLLECTOR

## Project Summary

A floating 1,000-ton collector designed by PSE was constructed to contain fish handling equipment to route the downstream migrant fish into a hopper to be trucked around the dam and released downstream below the dam. The \$50 million apparatus, completed in 2008, attracts and safely holds juvenile salmon for

downstream transport by "fish taxi." Work consisted of a screening system to separate the fish from the turbine intake penstock water so they could avoid the turbines.

This project was one of thirteen construction projects in the country to be recognized for their significance at the March 2009 Aon Build America Awards in San Diego. The Associated General Contractors of America said the project was chosen for its complexity, innovation, success and significance to the construction community and to the nation. This is the fourth such award the AGC has given the Tualatin-based company.

## Burke Electric Scope

Electrical work included a 15Kv power underground duct bank to 15Kv disconnect on the dam extended to two special 15Kv cables draped under water to two control buildings on the barge containing the 500KVA 15KV to

480V substations and motor control centers. Pump motors to furnish attraction water for the fish were (4) 100HP and (4) 30HP. Raceway, Conduit, Wire, lighting and lighting controls.



## Equipment and Systems Overview

- 15kV power underground duct bank
- 15kV Disconnect and underwater cable
- 500kVa 15kV to 480V substation
- Motor Control Centers
- (4) 100HP & (3) 30HP Pump motors

## Offeror Role

Subcontractor

## Owner Information

Puget Sound Energy  
10885 NE 4TH ST  
Bellevue, WA. 98004

## Contract Amount & Type

\$2,373,000—firm fixed price

## Customer Information

The Natt McDougall Company  
20182 SW 112th AVE  
Tualatin, OR 97062  
Dan Phelan, Project Manager  
(503) 783-0620

## Project Location

Concrete, WA

## Problems Encountered and Solutions Executed

The remote location of this jobsite created significant challenges with regard to mobilization, heavy equipment and machinery and getting newly procured equipment to the site safely. Additional challenges were due to the building the collector on continually shifting water and through snow and rain. Successful completion of this project was met under a tight and stringent completion milestone deadline even with design having been delayed by nearly 1 year.

## Burke Electric Project Personnel

Ken Nash, General Foreman  
Mark Undseth, Project Manager  
Dominic Burke, COO

