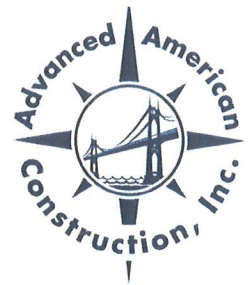


John Day Lock & Dam Gate & Sheave Replacement



Client:

US Army Corps of Engineers
Portland, Oregon

Contract Value:

\$17,805,195

Project Timeline:

Started: October 2009

Completion: March 2011

Project Highlights:

- Replace 2.5 million pound structural steel gate
- Replace 2 – 18' diam. Wire rope sheaves
- Jack 2 – 1 million pound counterweights
- Complete replacement of mechanical friction sheave drive system
- All work to be performed within 14 week accelerated schedule



AAC plans to remove and replace the existing downstream gate in four sections each, using a 660 ton barge mounted crane. Assembly of the derrick crane will occur at AAC's Linnton facility located on the Willamette River and will then be moved to Columbia Business Park in Vancouver, WA to load the new gate sections being fabricated by Oregon Iron Works. The derrick will then be transported upriver to the dam to begin work. Replacement of the downstream gate will require a 14 week navigational lock closure scheduled to begin December 10, 2010. Due to the necessity of the river being closed in order to complete this work, AAC crews will work double shifts six and seven days per week.

AAC's contract includes replacement of the full mechanical drive system. Work will include jacking the two, 1 million pound counterweights to remove tension from the 32 wire ropes. The wire ropes will then be removed from the 18' diameter steel sheave to allow for its removal. After the sheaves are replaced AAC will completely replace the gearing, bearings, electric motors and brakes that operate the gate.