

FY17 Columbia-Snake River Navigation Lock Extended Outage

Progress Update to Navigation Stakeholders

Information presented during conference call with stakeholders on Sept. 8, 2016

Thank you for your continued support and interest in the 2016-2017 Columbia-Snake River System extended navigation lock outage. For those who may be new to this topic, here's a bit of background:

The U.S. Army Corps of Engineers will conduct an extended navigation lock maintenance outage Dec. 12, 2016, through March 20, 2017. The 14-week-long closure will affect all Corps navigation locks on the Columbia and Snake rivers, with critical, major repairs, routine maintenance and improvements scheduled to occur.

Although the closure will not occur until December 2016, we want to provide you the earliest-possible information so you can plan around the outage. The project information below was previously provided to those who attended the June 1, 2016, Joint-District Navigation Meeting at the Sage Center in Boardman, Oregon. For those who were unable to attend the meeting, here's the latest progress update:

All locks – Overall, progress continues on-schedule for the 14-week extended navigation lock outage in winter 2016/2017. To maximize this maintenance opportunity at all of our locks, additional work items may be added within the schedule, dependent upon available resources.

Bonneville Lock and Dam –The navigation lock controls will be updated, which includes removing existing navigation lock systems and control interfaces, and installing new programmable logic controllers. The navigation lock will be dewatered during the extended lock outage, but only to accomplish other repairs. The modernized equipment will improve automated functions and make the controls easier to use for navigation lock operators, thereby increasing reliability. Materials needed to complete the upgrade were purchased in FY15 and have been received. Our in-house crews have begun installing the new hardware, parallel to the existing controls systems, to minimize the work needed to be completed during the extended outage. No other contract actions are required on this project, the work is being accomplished with in-house crews and is progressing on schedule in anticipation of the start of the extended lock outage. The installation is anticipated to be complete and the lock back in service on Feb 9, 2017.

The Dalles Lock and Dam –The lock will have several major work projects happening during the outage -- we're going to replace the upstream gate, replace the downstream gate gudgeon and perform downstream gate adjustments, plus install cathodic protection, and upgrade the lock controls and power distribution system. The first contract for this project was a supply contract awarded in FY15 to purchase the power distribution equipment. Half of this equipment has been received, and the other portion has been tested in the factory with the supply contractor working through a punch list. This power distribution equipment will be supplied to the construction contractor for installation. The construction contract was structured with mandatory and optional items to be awarded as funding became available, currently all options have been awarded. The construction contractor has been preparing submittals and RFIs for review by the government with upstream gate and downstream gudgeon fabrication well underway. The contractor has started mobilization on-site, and has begun installing controls and power distribution equipment in parallel with the existing hardware. Looking forward: the contractor began mobilizing on-site to start setup of the crane necessary to lift the upstream gate. Fabrication of the gate is on track for completion in the late-November/early-December timeframe. It will then be transported upriver by barge and unloaded before the lock outage starts. One or two short outages (several hours to 1 day each) will likely be required to allow for

initializing the new power distribution hardware and unloading the gate. Navigators will be notified through our normal process as schedules are determined. We will do everything we can to minimize river user impacts.

John Day/Willow Creek – Portland District has no extensive repairs planned for the John Day navigation lock. Maintenance crews will use the time to clean and check equipment, paint, clean staff gauges, change gear box fluids, repair upstream and downstream guidewalls, and conduct preventive-maintenance actions and dam-safety inspections. The John Day Dam will not be dewatered lower than the chamber floor.

McNary Lock and Dam – Walla Walla District plans to complete several repairs to the downstream miter gate repairs via construction contract. Repairs will be made to the gudgeons (top hinge of each gate leaf), consisting of line-boring gudgeon pin bores; and replacement of gudgeon pins, to ensure equal loading on each gudgeon assembly. The bottom seal assemblies on each miter gate leaf will be replaced. And, we will be replacing deteriorated timber fenders on each miter gate leaf and bumpers on the navigation lock walls adjacent to the downstream miter gate. Also during the outage, McNary staff plan to complete repairs to one fill tainter valve and one drain tainter valve. The construction contract for gate repairs is currently out for bids. A pre-bid site visit for contractors occurred Sept. 8. Bids are due on Sept. 23, and the contract is slated for award in early-October 2016.

Ice Harbor Lock and Dam – New operating machinery for the downstream gate at Ice Harbor is a very high priority for the Walla Walla District. Critical components of the machinery and control systems require replacement during the extended closure. The construction contract for the Ice Harbor downstream gate machinery replacement was awarded on January 8, 2016, to Knight Construction & Supply, Inc. for approximately \$4.69 million. The contractor mobilized on Aug. 9 to start pre-outage work requirements. Pre-outage work includes installation of electrical conduit, wiring, fiber optics, overhead crane, roof handrails system, etc. Mechanical shop final inspections are coming up for long-lead items in fabrication: ring gear, Sept. 22; pinion gears, Sept. 23; and new sheave shafts, October (TBD).

Lower Monumental Lock and Dam – As most of you know, a new downstream lock gate was installed at Lower Monumental during the FY11 extended outage. The second phase of this installation is the replacement of the machinery and control systems that operate the gate -- the existing equipment has reached the end of its service life. Lower Monumental's downstream gate machinery replacement contract was awarded Jan. 26 to Knight Construction & Supply, Inc. for approximately \$3.37 million. On-site construction is scheduled to begin on Sept. 21 during the pre-outage work window. Pre-outage work will include installing new cable and conduit for power and controls infrastructure, new control cabinets, new overhead maintenance cranes in the hoist machinery rooms, new tower roof handrails, and new work platforms and ladders in the hoist machinery rooms.

Little Goose Lock and Dam – Following an emergency outage in 2014 to repair a failing gudgeon arm, additional work is required during the FY17 outage to complete replacement of the aging components of the gate. This project will involve replacement of the remaining original gudgeon arm and linkage, and replacement of the pintle assembly for both gate leaves. Structural repairs will include resurfacing the quoin and miter, and crack repairs to structural members. Repairs are critical to ensure reliable gate operation. The construction contract for the Little Goose downstream gate structural repairs was awarded on May 9, 2016, to Dix Corporation for approximately \$2.18 million (options exercised). The contractor is slated to mobilize on-site in late-November.

Lower Granite Lock and Dam – Although Lower Granite does not have large-contract repairs planned, Corps maintenance personnel will conduct annual routine lock maintenance and repairs during the scheduled outage. Non-routine work includes replacing the upstream gate wire ropes.

This extended lock outage plan is a coordinated effort between the Corps' Portland and Walla Walla districts. Our goal is to prioritize and accomplish urgently needed lock repairs along the Columbia and Snake rivers while minimizing the impact lock closures have on river users.

We will continue to keep stakeholders informed with regular updates. Our next teleconference update is scheduled for October 6 at 1 p.m. -- we hope you can join us for this call! Please, reference the attached **FY17LockOutage Stakeholder Teleconference Schedule** for call-in instructions.

For those who cannot attend the teleconference meeting, a written stakeholder update will also be sent the following day via email and posted to the FY17 Extended NavLock Outage webpage <http://www.nww.usace.army.mil/Missions/Navigation/FY17LockOutage.aspx>.

For more information about the extended outage or to sign up for future email updates, visit our website or email FY17LockOutage@usace.army.mil. You are also welcome to call or email our Public Affairs Offices at the numbers and addresses below.

Portland District Public Affairs Office
(503) 808-4510
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Sincerely,

Sheryl Carrubba
Senior Navigation Program Manager
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FY17LockOutage

Stakeholder Teleconference Schedule

All dates are Thursdays at 1 p.m. (Pacific)

Monthly – Sept. 8, Oct. 6, Nov. 3

Weekly – Dec. 1, 8, 15, 22, 29

Jan. 5, 12, 19, 26

Feb. 2, 9, 16, 23

Mar. 2, 9, 16

Teleconference Call-in Instructions

Dial: **877-848-7030** Toll-Free

When prompted, enter:

Access Code **4909700#**

Security Code **7020#**

★Written update information presented during teleconference will be distributed via eMail and Web-posted the following day



FY17LockOutage@usace.army.mil



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