

## **FY17 Columbia-Snake River Navigation Lock Extended Outage**

Progress Update to Navigation Stakeholders

Information presented during conference call with stakeholders on Dec. 1, 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, non-routine repairs and maintenance, plus routine maintenance and improvements scheduled to occur.

The project information below was originally provided during a navigation-stakeholder teleconference on Dec. 1, 2016. Please, note that these teleconference updates will now occur weekly throughout the duration of the extended lock outage. For those who were unable to attend the Dec. 1 teleconference, here's the latest work-progress update:

**All locks** – Overall, progress continues on-schedule. 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 (PLCs). Our in-house crews are almost done installing the new hardware, parallel to the existing controls systems, to minimize the work needed to be completed during the extended outage. Work continues on revisions to the PLC software. Work is progressing on schedule in anticipation of the start of the extended lock outage. Bonneville navigation lock will close to river traffic at 6 a.m. on December 12, with work targeted for completion and the lock back in service on February 9, 2017.

**The Dalles Lock and Dam** –The lock will have several major work projects happening during the outage -- replacement of the upstream gate; and for the downstream gate, we will replace the gudgeon, perform adjustments, install cathodic protection, and upgrade the lock controls and power distribution system. The power distribution equipment received, and a few minor punch list items continue to be worked with the supply contractor. The upstream gate is now instrumented and painted, with final painting touch-ups taking place before shipping. The gate is scheduled to be loaded onto a barge in Vancouver, Washington, on December 5. On-site, the contractor is wrapping up the pre-work on the controls and power distribution equipment in parallel with the existing hardware. This new equipment was powered up during the one-day lock outage that took place in mid-October. The crane platform is set up, and the contractor is now setting up the crane to lift the upstream gate, which is a large effort all by itself. In final preparation for the start of the extended outage, a short lock outage is scheduled for December 8 to unload the upstream gate. A Notice to Navigators was emailed to commercial river users. Overall work is progressing on schedule. The Dalles navigation lock will close to river traffic at 6 a.m. on December 12.

**John Day Lock and Dam** – 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 extensive 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, including repairs to the gudgeons (top hinge of each gate leaf), replacing the bottom seal assemblies and deteriorated timber fenders on each gate leaf, and replacing bumpers on the navigation lock walls adjacent to the downstream gate. The contractor's pre-construction submittals are progressing well. Also during the outage, McNary staff plan to complete repairs to one fill tainter valve and one drain tainter valve using in-house labor. This in-house work will occur first, before the contractor begins the gate-repair work on Jan. 4, 2017. The project remains on schedule with no issues.

**Ice Harbor Lock and Dam** – Critical components of the NavLock machinery and control systems require replacement during the extended closure. The contractor mobilized Aug.9 to start pre-outage work requirements, then as planned, demobilized in mid-September to move their crews to Lower Monumental's lock. They re-mobilized to Ice Harbor in mid-November and are currently on-site continuing pre-outage work requirements. Pre-outage work includes installing electrical conduit, wiring, fiber optics, overhead cranes corbel structural reinforcement, and roof handrail systems. Ring gear and pinion gear inspections were completed in late-September. New sheave shaft inspections were completed in late-November. Factory testing of control panels is slated to occur in mid-December. Work is progressing on schedule.

**Lower Monumental Lock and Dam** – Work at Lower monumental involves the second phase of the downstream gate replacement project, which includes replacing the machinery and control systems that operate the gate. Overall, this project is on schedule. Pre-outage work is nearing completion for the following tasks: lead paint abatement in the hoist machinery rooms, installing new cable and conduit for power and controls infrastructure; fabrication and testing of new control cabinets; installing new overhead maintenance cranes, work platforms and ladders in the hoist machinery rooms; and installing new tower roof handrails. Procurement and factory testing of critical long-lead-time items is on schedule.

**Little Goose Lock and Dam** – Work at Little Goose will involve replacement of a gudgeon arm and linkage, and replacement of the pintle assembly for both downstream lock gate leaves. Structural repairs will include resurfacing the quoin and miter, replacing timber fenders, painting the lower 20 feet of each gate leaf, and installing safety hand rails on the top of each gate leaf. Repairs are critical to ensure reliable gate operation. The contractor will begin mobilization activities December 5 to be prepared to start work once the gate is taken out of service. Preparation, and jacking and shoring of the gate will occur late-December to early January. Structural steel repairs, pintle heel assembly replacements, and painting of the gate will occur mid-January through February. There are no issues at this time.

**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. Currently, Lower Granite has planned some non-routine work which includes replacing the upstream gate wire ropes, replacing damaged timber bumpers on the downstream miter gate and installing new fill/drain valve hydraulic cylinders.

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 Dec. 8 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](mailto: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  
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Northwestern Division, U.S. Army Corps of Engineers

# 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](mailto:FY17LockOutage@usace.army.mil)



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