

## FY17 Columbia-Snake River Navigation Lock Extended Outage

### Progress Update to Navigation Stakeholders

Information presented during conference call with stakeholders on December 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 December 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 December 8, 2016. Please, note that these teleconference updates will occur weekly throughout the duration of the extended lock outage. For those who were unable to attend the December 8 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 wrapping up the last remaining items towards installing the new hardware, parallel to the existing controls systems, and are well-set for the start of the lock outage. Bonneville's navigation lock will be placed out of service 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 has been received, and a few minor punch list items continue to be worked with the supply contractor. The upstream gate was loaded onto a barge in Vancouver on Tuesday, December 6, and unloaded at The Dalles lock on Thursday, December 8. Due to the forecasted bad weather, the lock-use closure for unloading the gate started an hour early -- many thanks to river-users for their cooperation. All pre-work on the controls and power distribution equipment is being finalized for the start of the lock outage. Some of the first activities will be dewatering the lock, removing the old upstream gate, and supporting the downstream gate. 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. The government-furnished bottom gate seal material was delivered to McNary on December 7. The contractor will commence work on-site January 4, 2017. 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 January 4, 2017. A complete inspection of the miter gate leaves will be accomplished during the first week of the outage to verify the condition of previous repairs and to look for any new areas that may need to be addressed during the outage window. 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 re-mobilized to Ice Harbor in mid-November and is 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. Final 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 has been completed 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 in the hoist machinery rooms; and installing new tower roof handrails. During the first few weeks of the outage, the contractor will focus on the weld repairs for the friction sheaves, which are the drivers of the critical path for the project. The contractor will be working six days per week, 12 hours per day, on 6 a.m. to 6 p.m. shifts. During the critical weld repairs for the friction sheaves, the contractor will be working two 12 hour shifts starting on December 26. No onsite work is scheduled for Christmas and New Year's Day.

**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 leafs. 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. The contractor began mobilization activities December 6 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 and commercial river users. 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 December 15 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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Walla Walla District Public Affairs Office  
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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**



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