

FY17 Columbia-Snake River Navigation Lock Extended Outage

Progress Update to Navigation Stakeholders

Information presented during conference call with stakeholders on December 22, 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 is conducting an extended navigation lock maintenance outage December 12, 2016, through March 20, 2017. The 14-week-long closure affects all Corps navigation locks on the Columbia and Snake rivers, during which critical, non-routine repairs and maintenance, plus routine maintenance and improvements scheduled will occur.

The project information below was originally provided during a navigation-stakeholder teleconference on December 22, 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 22 teleconference, here are the latest work-progress updates:

All locks –All locks were taken out of service on December 12, and numerous in-lock work activities are being accomplished during this time. 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). In-house crews have dewatered the lock for inspections, and recovered and released any fish inside. Scaffolding was installed. They are disconnecting and removing old controls equipment, and starting to connect the new controls equipment to existing systems. In-house maintenance staff are also conducting other routine lock-maintenance work, including gate inspections, and log boom and guidewall bumper replacements. Work is on schedule.

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, replacement of the gudgeon, performing adjustments, installing cathodic protection, and upgrading the lock controls and power distribution system. Contractor crews are working 12 hours a day, 6 days a week, and are wrapping things up on setting access platforms. They continue to remove the old controls equipment/wiring and connect the new. Workers have started cutting the old upstream gate for removal -- working to remove middle section of upstream gate by the end of this week, and remove the two end pieces during next week. Also next week, they plan to be setting up jacking and supports for the north leaf of the downstream gate, and remove the gudgeon arms. Overall, work is progressing on schedule.

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 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. Also during the outage, McNary staff plan to complete repairs to one fill tainter valve and one drain tainter valve using in-house labor. The NavLock chamber was dewatered December 14, and McNary's in-house crews began scheduled maintenance activities. The contractor's pre-construction submittals are progressing well, and they will commence work on-site January 4, 2017. A complete inspection of the miter gate leaves was completed Dec. 21 to verify the condition of previous repairs and to look for any new areas that may need to be addressed during the outage window. One new small crack and one suspected small crack were identified and are being evaluated by structural engineers to determine if repairs are warranted during this outage timeframe. All government-furnished material required for the bottom seal replacement and timber fender replacement was delivered to McNary Dam. Work remains on schedule.

Ice Harbor Lock and Dam – Critical components of the NavLock machinery and control systems require replacement during the extended closure. Final factory testing of control panels was completed December 20. The contractor's initial work includes cribbing and stabilization of the gate, jacking up counterweights, jacking and separation of the sheave, cable un-tensioning and electrical demolition in both lock gate towers. The contractor plans to work 12 hours per day, seven days per week. In-house crews are preparing for weld repair work on the downstream gate to be done concurrently with the contractor's work in the machinery towers. Work is 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. The contractor is working 12 hours per day, six days per week. During the critical weld repairs for the friction sheaves, the contractor will be working two 12-hour shifts, starting on December 28. Crews have completed jacking up the downstream gate counterweights, which is necessary to unload the hoist cables and begin repairs on the friction sheaves. Demolition and removal of the existing hydraulic power units, gearboxes, and brakes have been completed in both hoist machinery rooms. Installation of friction sheave work platforms is in progress with the South Tower scheduled for completion on Thursday, December 22, and the North Tower on Friday, December 23. Plans for the next week include the final demolition of existing electrical equipment in the hoist machinery rooms, start of friction sheave weld repairs, and the installation of electrical conduit and cable for the new control panels. New control panels are scheduled to be delivered on-site December 28. In-house staff is prepping for work on the upstream gate and tainter valves. Overall, work 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. The NavLock has been dewatered, and the contractor has installed strain gages and performed pre-disassembly inspections on the gate. During the remainder of this week, the contractor will be removing the existing timbers on the gates, and cleaning debris in the lock area adjacent to the gate. Preparations for jacking and shoring of the gate have begun, and the gates will be moved during late-December to early January. Structural steel repairs, pintle heel assembly replacements, and painting of the gate are scheduled to occur mid-January through February. In-house staff are performing essential preventative maintenance. Overall, work is on schedule.

Lower Granite Lock and Dam – Lower Granite has completed dewatering and is replacing the upstream gate wire ropes on the south side, working on replacement of damaged timber bumpers on the downstream miter gate and installation of new fill/drain valve hydraulic cylinders. Work is on schedule.

This extended lock outage 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 29 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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Walla Walla District Public Affairs Office
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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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