

FY17 Columbia-Snake River Navigation Lock Extended Outage

Progress Update to Navigation Stakeholders

Information presented during conference call with stakeholders on December 15, 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 15, 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 15 teleconference, here's the latest work-progress update:

All locks – Overall, progress continues on-schedule. All locks were taken out of service on December 12. 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 set stoplogs, the lock is being dewatered, and fish recovery is underway. They will soon start removal and disconnection of old controls equipment; and are preparing for other work -- gate inspections, and log boom and guidewall bumper replacements. Work is scheduled for completion and the lock to be 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 lock was dewatered and turned over to the contractor Wednesday morning, December 14. Work has begun to remove the old controls equipment/wiring and connect the new. The contractor is setting access platforms. Once these are in place, they will be removing the old upstream gate by cutting it into three pieces, saw-cutting and removing concrete at the upstream gate, and supporting the downstream gate to allow installation of the new upstream gate in one piece. 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 successfully dewatered as of

Wednesday, December 14, one day ahead of schedule. McNary's maintenance crew began work on the tainter valve repairs today, December 15. This in-house work will occur first, before the contractor begins the gate-repair work on January 4. The contractor's pre-construction submittals are progressing well. 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 dewatered navigation lock was turned over to the contractor at 6 a.m. today, December 15. Final factory testing of control panels is slated to occur December 20. The contractor's initial work includes cribbing and stabilization of the gate, jacking up counterweights, jacking and separation of the sheave, and cable un-tensioning. The contractor plans to work seven days per week, 12 hours per day. In-house crews are preparing for weld repair work on the downstream gate to be done concurrently with the contractor's work on 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 downstream gate work area was turned over to the contractor on Tuesday, December 13, right on schedule. During these 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 is currently tagging out electrical equipment and getting set to jack up the downstream gate counterweights in preparation for work on the sheaves. 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 Day and New Year's Day. In-house crews are 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 will remove debris and perform gate inspections. Equipment tag out efforts are underway. 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. In-house staff are performing essential preventative maintenance. Overall, work is on schedule.

Lower Granite Lock and Dam – Lower Granite has completed dewatering, started replacing the upstream gate wire ropes on the south side and is preparing to replace damaged timber bumpers on the downstream miter gate and install new fill/drain valve hydraulic cylinders.

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 22 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
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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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