

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

### **Progress Update to Navigation Stakeholders – as of March 31, 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 planning 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. Here is the latest status update:

**All locks** – Overall, progress continues on-schedule for the 14-week extended navigation lock outage in winter 2016/2017.

**Bonneville Lock and Dam** – The navigation lock controls will be updated, which includes removing existing navigation lock systems and control interfaces, and installing new redundant systems with important safety elements. 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. Materials needed to complete the upgrade have been purchased. . Our in-house crews have begun installing the new hardware, parallel to the existing controls systems. We expect to complete the installation by week eight of the outage.

**The Dalles Lock and Dam** – The construction contract to replace The Dalles Dam's upstream gate and replace the downstream gate gudgeon was awarded February 1, 2016. See the news release at <http://www.nwp.usace.army.mil/Media/NewsReleases/tabid/1888/Article/651029/corps-awards-the-dalles-navigation-lock-contract.aspx>. We are working to award the controls upgrade contract options. The contractor performed a detailed site survey of the dewatered navigation lock during the March 2016 lock outage, collecting data that will be used to ensure accurate fabrication of parts based on existing conditions. Both the construction contractor and the power distribution supply contractor are working on submittals to allow the start of fabrication. Overall, everything is on-schedule for the extended lock outage.

**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 guidewall PMs and conduct 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 downstream miter gate repairs that were delayed in order to return the lock to service on schedule during the 2015 maintenance outage. The project is currently at the 60-percent design phase.

**Ice Harbor Lock and Dam** – A very high priority for the Walla Walla District is new operating machinery for the downstream gate at Ice Harbor. Critical components of the machinery require complete replacement during the extended closure. The construction contract for the Ice Harbor downstream gate machinery replacement was awarded on January 08, 2016 to Knight Construction & Supply, Inc. for approximately \$4.69 million -- see the news release at

<http://www.nww.usace.army.mil/Media/NewsReleases/tabid/2614/Article/648083/16-002-corps-awards-2-navigation-lock-repair-contracts-work-to-occur-during-sys.aspx>.

**Lower Monumental Lock and Dam** – A new downstream lock gate was installed at Lower Monumental during the FY11 extended maintenance closure. The second phase of this installation is the replacement of the machinery and controls system that operates the gate. The newly installed downstream gate is heavier than the original, and 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 -- see the news release at <http://www.nww.usace.army.mil/Media/NewsReleases/tabid/2614/Article/648083/16-002-corps-awards-2-navigation-lock-repair-contracts-work-to-occur-during-sys.aspx>.

**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, 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 Little Goose downstream gate structural repairs contract package has been solicited and is anticipated to be awarded in May 2016.

**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. As this schedule is refined, updates will be provided.

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.

To maximize this maintenance opportunity at all of our locks, additional work items may be added within the schedule, dependent upon available resources. We will continue to keep stakeholders informed with regular updates. Our next update will occur June 1 at the Spring 2016 Joint-District Navigation Meeting at the Sage Center in Boardman, Oregon. Please see the event invitation attached to this update. For those who cannot attend the meeting, a written update will also be sent 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.

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Sincerely,

Jeannette Wilson  
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Walla Walla District, U.S. Army Corps of Engineers

U.S. Army Corps of Engineers  
Spring Columbia-Snake River Navigation Meeting  
&  
Public Coordination for the  
2017 Extended Columbia-Snake River Lock Outage

You are invited to attend the Spring 2016 Joint Portland and Walla Walla Districts Navigation Meeting and an update on the status of preparations for the 2017 Extended Lock Maintenance Closure

Date: June 1, 2016

Time: 10 a.m. to 3 p.m.

Place: Port of Morrow, SAGE Center, 101 Olson Road, Boardman, OR 97818

Agenda to follow soon!

We look forward to seeing you at the meeting.

If you have questions, or would like to provide input to the meeting agenda, you should contact the following:

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