



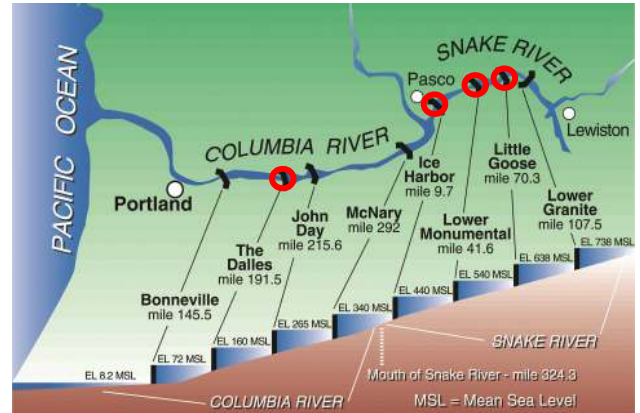
Stakeholder and agency collaboration are crucial to ensuring the long-term reliability of the Columbia Snake River System

Columbia Snake River System extended lock closure

PNWA works with the Corps to plan for 14-week closure in FY2017

PNWA is pleased to report that the federal government continues to plan and invest in the future of the Columbia Snake River System (CSRS). Building upon past successes, the U.S. Army Corps of Engineers' Portland and Walla Walla Districts continue to systematically evaluate our inland infrastructure, and target the highest priority repairs.

While all repairs are subject to funding through annual Energy and Water Appropriations, the two Districts have identified the next extended maintenance closure to occur for 14-weeks starting December 12, 2016 and continuing to March 20, 2017. Extended lock closures of this kind are very unusual, but are necessary to maintain the integrity of the transportation system. Infrastructure investments and maintenance repairs being made during this closure will have long term benefits for the entire Northwest. The CSRS is poised for tremendous growth over the next fifteen years. It is fully functional now and, with this targeted maintenance funding, it will remain in service to handle the growth in the coming years. Repair details for the FY2017 closure include:



Bonneville Lock & Dam. System failures and outdated equipment are requiring that the navlock controls at Bonneville be replaced in the FY2017 closure. The Corps predicts the repairs will be complete by week 8 of the closure. \$7.570M is included in the President's FY2016 budget request for the overall project, and PNWA is advocating for an additional \$325K for repairs, including development of programming language for the Navlock Control System.

The Dalles Lock & Dam. The downstream gate requires new gudgeon bushings and gudgeon anchors, along with corrosion protection. Both the navlock controls and upstream gate require replacement. The Corps estimates these three projects will close the lock for approximately 14 weeks. Adequate funding was secured in FY2014 and FY2015, and \$10.931M is proposed in the President's FY2016 budget. PNWA is advocating for an additional \$1.762M in FY2016 for repairs at the project, including those needed to keep things on track for completion during the FY2017 extended closure.

McNary Lock & Dam. During the March 2015 four week maintenance closure, repairs were made to the downstream miter gate at McNary Dam. During these repairs, extensive cracking was found that will require additional work in future maintenance outages and critical crack repairs are planned for FY2016. \$7.011M was included in the President's FY2016 budget for this project, and the Corp is requesting an additional \$400K to complete the crack repair. Additional work will also be needed during the FY2017 extended closure, to fully maintain the reliability of the gate.

Ice Harbor Lock & 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 next extended closure. Funding for operating machinery plans and specs was included in the FY2014 workplan, and funding for design of all other components was included in the FY2015 omnibus. \$9.172M is proposed in the President's FY2016 budget and additional \$600K is needed to complete the fabrication of components to be replaced during the FY2017 extended closure.

Lower Monumental Lock & Dam. A new downstream lock gate was installed at Lower Monumental during the 2011 extended maintenance closure. The second phase of this installation is the replacement of the mechanical gear that operates the gate. The newly installed downstream gate is heavier than the original, and the existing gears have reached the end of their service life. The design phase (plans & specs) is complete, and funding for fabrication was included in the President's FY2016 budget. These repairs remain on track for installation during the next planned extended maintenance closure in FY2017.

Little Goose Lock & Dam. Little Goose's downstream gate land-side gudgeon was replaced in April 2014, however, additional work is needed during the FY2017 long-term closure to fully complete replacement of all downstream gudgeon arms and pintles. The mitre gate quoin blocks and other structural items are also in need of repair, as the hinges have fractured welds causing structural failure. The full \$7.267M proposed in the President's FY2016 budget is needed to complete fabrication of the components. PNWA will be advocating for this funding in a final FY2016 Energy & Water Appropriations bill. Full repairs and gudgeon replacement is estimated to take 12 weeks, during the extended closure.

PNWA is working with the Portland and Walla Walla Districts of the Corps, as well as the grain community and other navigation stakeholders, to ensure they are able to plan appropriately for the closure and that impacts to river users are minimized. We continue to work to ensure the continued reliability of navigation in the Northwest. For more information, please contact heather.stebbing@pnwa.net.

