

**OFFICIAL COORDINATION REQUEST FOR  
NON-ROUTINE OPERATIONS AND MAINTENANCE**

**COORDINATION TITLE-** 21DET03 Minto Fish Facility-AWS/Screen Air Burst System

**COORDINATION DATE-** 14 June 2021

**PROJECT-** Minto Fish Facility

**RESPONSE DATE-** 28 June 2021

**Description of the problem-** The supply water for the Minto fish facility is pumped river water from the N. Santiam River. This water must pass through screens that meet NMFS criteria. These intake screens are kept clean of algae buildup and debris using an airburst cleaning system. The differential between river level in front of the screen and differential behind the screen is used to activate the airburst system. Currently the airburst system is unable to keep up with the water needed to meet NMFS criteria at the Minto Fish Facility. Under NMFS criteria the facility uses approximately 15 CFS for post-sort pools and flumes, 20 CFS for ladder flow and 80 CFS for the AWS (auxiliary water system). The AWS adds water to the lower ladder to reach criteria for water, flow, velocity, and height (which helps attract fish to the ladder). The AWS system has 12 gates that each release about 18-20 CFS. As river levels rise and fall the AWS system opens and closes AWS gates to stay within the criteria.

**Type of outage/change required-** NA

**Impact on facility operation-** The fish ladder was designed to meet NMFS criteria for flow, height, and velocity. Currently the AWS gates are shut down to relieve water flow and pressure coming through the screens, and the ladder is not meeting NMFS criteria.

**Dates of impacts/repairs-** numerous

**Length of time for repairs-** unknown

**Expected impacts on fish-** The ladder was designed with specific criteria for flow and velocity. When the AWS flow is shut down due to clogged screens the reduced flows in the ladder may impact migration timing and collection of salmonids. The reduced water to the facility may also limit the numbers of adults that can be held for brood or outplanting.

**Comments from agencies-** No comments

**Final results-** After screen cleanings, air burst system functioning normal.

Please email or call with questions or concerns.

Thank you,  
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