



**Standing Operation Procedure
06
John Day Lock and Dam
NORTH FISHWAY DEWATERING**



**US Army Corps
of Engineers**®
John Day/Willow
Creek Project

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24, September 2012

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This Standing Operating Procedure (SOP) *North Fishway Dewatering Plan* provides a working tool that can be used to document routine procedures for John Day Lock and Dam / Willow Creek Project.

The proponent office for this document is the John Day Lock and Dam / Willow Creek / Operations Division staff and any questions or comments should be directed to this office at:

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Review. This document will be reviewed at a minimum of annually or if conditions change.

History. This is the initial publication of a Policy for this titled subject.

No changes to this document shall be made without concurrence of Management. Any change must be approved by the Project Operations Manager.

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Record of Review and Changes

Change No.	Page/Paragraph/Section:	Statement of Review or Change	Date:	Approval:
1.0	New	New	24 Sept 2012N	Miro Zyndol

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1.0 Purpose.

This U.S. Army Corp of Engineers, Northwestern Division, Portland District, John Day Lock and Dam / Willow Creek Standing Operational Procedure (SOP), prescribes a North Fishway Dewatering procedure for John Day Lock and Dam.

2.0 Applicability.

This SOP is applicable to all John Day Lock and Dam / Willioiw Creek employees. The North Fishway is dewatered annually for winter maintenance (December, January, February). Fisheries will coordinate dates and times for outage with all involved project personnel, COE Portland District and regional fish managers.

3.0 References.

None

4.0 Related Procedures.

Safety: All area of JD North Fishway are considered Non-Permit required Confined Space due to the restrictive entry and exit. However, due to lack of atmospheric danger (it is wide open to outside) and its multiple entry/exit point, JD North Fishway does not require the Confined Space permits or any additional documentation apart from the Safety Clearances "Lock-Out Tag-Out".

5.0 Definitions.

The North Fishway is dewatered annually for winter maintenance (December, January, February). Juvenile and adult steelhead and adult lamprey are commonly found during dewatering process. Most fish move downstream with receding water on their own volition. However there are occasions when removal and transport for release are needed. Attempts are made to capture all lamprey before encountering exposed diffuser grating where they become entrapped in diffusion chambers. Salmonids take priority over resident fish during salvage operations. Personnel enter the count station as soon as possible to remove lamprey. Personnel also enter the lower section where diffuser grating become exposed as soon as possible to prevent fish stranding atop grating. Attempts will be made to release adult fish in forebay and juvenile fish in tailrace, but removal location and added stress of transport will be considered in the determination. The South Fishway will remain in service during the North Fishway outage, unless coordinated with regional managers.

6.0 Responsibilities.

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Operations (JDO): JDO is designated as the group that will set fishway to orifice flow 48-72 hours prior to dewatering. JDO will make adjustments and hang clearances as necessary.

Structural (JDS): JDS will provide extension ladders at access locations, remove count station picket leads, assure adequate exit bulkheads seals, install exit bulkheads when needed and notify project of potential deck blockages. Request safety clearances.

Mechanical (JDM): Schedule necessary preventative maintenance.

Electrical (JDE): Assure diffuser valve 9 is in working order.

Fisheries (JFF): Coordinates dates and times for outage with all involved project personnel, COE Portland District and regional fish managers. Conducts a pre-work/safety meeting which covers; Activity Hazard Analysis, job responsibilities, radio contact plan, preparations status.

7.0 Procedures

Preparation:

JDO

- 1) Set fishway at orifice flow 48-72 hours prior to dewatering
- 2) Turn off all attraction water pumps
- 3) Close diffuser valve 9 (water supply for diffuser 16)
- 4) Close exit sills
- 5) Notify rescue personnel prior to start of dewatering
- 6) Hang necessary clearance cards and locks
- 7) Provide flushing water from diffuser 5 as needed
- 8) Immediately before dewatering:
 - a) Open diffuser valve 9 to 20%
 - b) Open exit sills

JDS

- 1) Provide extension ladders at access locations
- 2) First weir downstream of the exit bulkheads
- 3) Count station
- 4) First 180 degree bend
- 5) Second 180 degree bend
- 6) Remove count station picket leads
- 7) Assure adequate exit bulkheads seals. Install exit bulkheads when needed
- 8) Notify project of potential deck blockages
- 9) Request safety clearances

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JDM

8.0 Records & Measurements.

- 8.1** SOP's on Sharepoint and station SOP folder.
- 8.2** Call-out list of personnel in the Control room.

Approving Signature

Dennis C. Stocks
Hydro Power Operations Manager
John Day/Willow Creek Project

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