The Dalles Dam Fishway Status Report

2/25/2018

Inspection Period: 02/18/2018-02/24/2018

THE DALLES DAM



The Dalles Project-Fisheries P.O. Box 564 The Dalles, OR 97058-9998 Phone: 541-506-3800

The Dalles Dam	Inspections	Criteria	Total Number	of Inspections:	7	Temperatu		39.5	°F
THE Danes Dain	Out of Criteria	Limit	Comments			Secchi:	3.8	feet	
			NORTH	I FISHWAY					
Exit differential	0	≤ 0.5′							
Count station differential	0	≤ 0.3'							
Weir crest depth	0	1.0' ± 0.1'							
Entrance differential	0	1.0' - 2.0'	1.3						
Entrance weir N1	0	depth (≥ 8')	9.8						
Entrance weir N2	0	Closed							
PUD Intake differential	0	≤ 0.5′							
		EAST F	SHWAY Out of	f service Dec1 - NLT ()3/15				
Exit differential	0	≤ 0.5′							
Removable weirs 154-157	0	Per forebay							
Weir 158-159 differential	0	1.0' ± 0.1'							
Count station differential	0	≤ 0.3'							
Weir crest depth	0	1.0' ± 0.1'							
Junction pool weir JP6	0	0.0							
East entrance differential	0	1.0' - 2.0'							
Entrance weir E3	0	depth (≥ 8')							
Collection channel velocity	0	1.5 - 4 fps							
Transportation channel velocity	0	1.5 - 4 fps							
North channel velocity	0	1.5 - 4 fps							
West entrance differential	0	1.0' - 2.0'							
Entrance weir W1									
Entrance weir W3	0	No criteria							
Entrance weir S1	0	depth (≥ 8')							
Entrance weir S2	0	depth (≥ 8')							
				E PASSAGE					
Sluicegate operation	0	Units 1, 8, 18							
Turbine trashrack drawdown	0	<1.5', wkly	range: 0.1-0.8	•					
Spill volume/pattern	0		144.40.40	10 DTO 10/00					
Turbine Unit Priority Turbine 1% Efficiency	0	per FPP per FPP	MU 13-16 oos	13 RTS 12/20					

OTHER ISSUES:

Birds and Sea lions:

Sea lion spotted in front of east entrance, a smaller sea lion also spotted in front of Seufert visitor center. A few eagles remain on project

Gull numbers <20 near dam. Gull seen in the hundreds near The Dalles Marina. ~80 Cormorant resting in SW3

Hazing plan; USDA on site Apr15 - Jul30, 14 hrs/day. Boat hazing 8 hrs/day, with increase during peak spring outmigration.

Use of lethal for controlling predation by gulls being investigated by NWP and NWD.

Operations

Sluiceway opened Feb 7 0800-1500 and Feb 8 0800 to Feb 12 0400 in combination with spill due to lack of load.

East fishway out of service through Mar 6 due to AWS construction delay.

North fishway in service

Current Outages;

T8 (MU15 & MU16) out for transformer failure. Transformer replacement 6/28/18.

MU17 and MU18 out for overhaul. Return 4/26/18.

MU19 and MU20 out of service due to gassing. RTS unknown.

Fish unit 1 and 2 and east fishladder out 12/1/17 for AWS constuction. RTS Mar6 or Mar15, depending on progress.

Navlock outage 3/3 - 3/25/18 for annual maintenance. Fish salvage planned for upstream gate pool.

Maintenance:

East exit weir electrical panel FCQ7 installation nearing completion. Demo of old FCQ7 to continue after.

West, south and north entrance weirs rehab and lamprey weir caps install complete. East weirs to be completed next winter outage.

East exit oil boom installation planning continues. Possible anchor installation with John Day boat.

Collection channel diffuser permanent closure start delayed until next year.

East exit 155, 156, 158 weir gearboxes rehabbed and reinstalled. Awaiting electical hookup.

Collection channel stuck dewatering pumpe removed. Repair underway.

All north fishladder maitenance completed.

Long term repair items; 154 -157 rehab/weir wheel replace, diffuser valve overhaul (rehab and decommission).

Fish related /non-fish funded items; Spillway assessment, spillway crane replace and spillgate 9. All awaiting funding.

All spillway items on Critical Infrastructure. Spillgate 9 on large cap list, projected for 2022. Charter in place for comprehensive spillway assessment.

Research/Construction/Contractors:

Fish Counters - Normandeau video review counting through the winter.

Pikeminnow dam angling - Done for season with a total catch at 1776. Highest invasive walleye by-catches do date. All non-native predators are released.

AWS construction - Construction progress continues. Commissioning testing Mar 31.

Lamprey minor mods - Rounded entrance weir caps on sight. Working on attaching to west weirs. South and north to follow.

Railroad track removal - Tailrace deck rail removal approx. half completed.

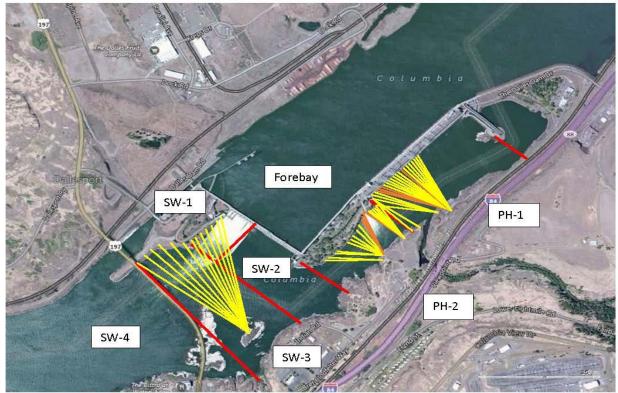
Fish unit breaker replace .- Work in progress. Completion Feb18, 2018. Two weeks commission testing required.

Fish unit rehab - Phase 1A report Jan 2018. Award 2020. Completion 2022.

Transformer replacement - Install start May 2018.

Approved by: Ron Twiner

Operation Project Manager The Dalles Dam



Red lines = avian zones

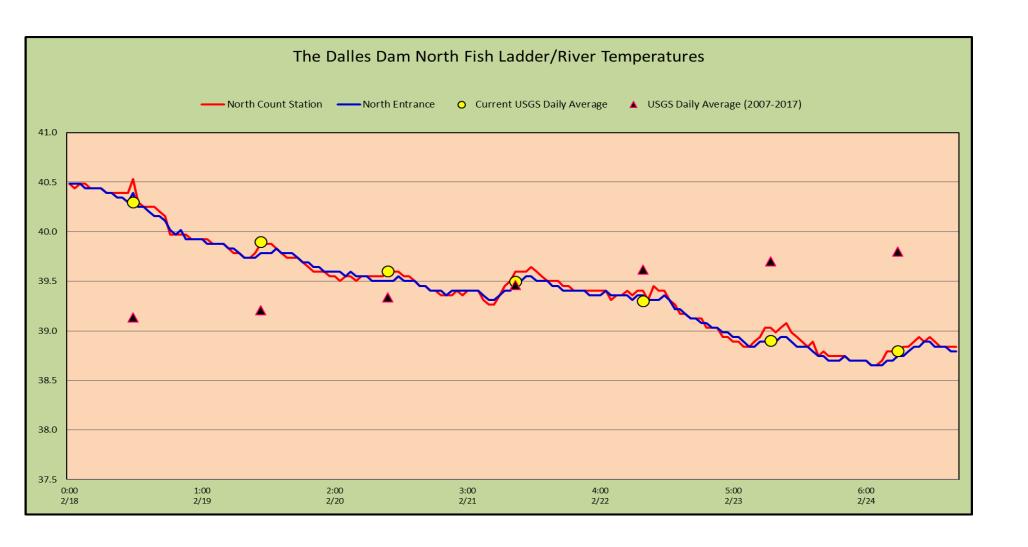
Yellow lines = current wires

Orange lines = down or missing wires

	2018 Piscivorous Bird Counts																	
								F=foragin	g, NF=non	-foraging								
				G	iull	Corn	norant	Caspi	an tern	Gre	ebe	Pel	ican	Ot	her	Total birds	Notes	
Date	Observer	AM/PM	Zone	F	NF	F	NF	F	NF	F	NF	F	NF	F	NF	in zone		
			FB	3	0	10	0	0	0	1	0	0	0	0	0	14		
			PH1	0	0	0	0	0	0	0	0	0	0	0	3	3	1 GBHE, 2 BAEA	
			PH2	0	0	2	0	0	0	0	0	0	0	0	0	2		
2/18	JED	AM	SW1	0	0	0	0	0	0	0	0	0	0	3	0	3	1 GBHE, 2 COME	
			SW2	1	0	0	0	0	0	0	0	0	0	1	0	2	GBHE	
			SW3	0	0	0	0	0	0	0	0	0	0	0	0	0		
			SW4	0	10	0	10	0	0	0	0	0	0	0	0	20		
			FB	1	0	2	0	0	0	0	0	0	0	2	0	5	BAEA	
			PH1	1	0	0	0	0	0	0	0	0	0	0	1	2	GBHE	
2/10	054	D1.4	PH2	0	0	0	0	0	0	0	0	0	0	3	1	4	3 BAEA, 1 GBHE	
2/19	CEA	PM	SW1	0	0	0	0	0	0	0	0	0	0	0	2	2	COME	
			SW2 SW3	0	0	0	10	0	0	0	0	0	0	0	0	10		
			SW4	0	0 30	0	0	0	0	0	0	0	0	0	0	30		
	+ +		FB	0	0	0	0	0	0	0	0	0	0	0	0	0		
			PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	4	
			PH2	0	0	0	0	0	0	0	0	0	0	0	0	0		
2/20		PM	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0		
2,20			SW2	0	0	0	0	0	0	0	0	0	0	0	0	0		
			SW3	0	0	0	0	0	0	0	0	0	0	0	0	0		
			SW4	0	0	0	0	0	0	0	0	0	0	0	0	0		
			FB	0	0	0	0	0	0	0	0	0	0	0	0	0		
			PH1	0	0	0	0	0	0	0	0	0	0	0	0	0		
			PH2	0	0	0	0	0	0	0	0	0	0	0	0	0		
2/21		AM	SW1	0	0	0	0	0	0	0	0	0	0		0	0		
			SW2	0	0	0	0	0	0	0	0	0	0	0	0	0		
			SW3	0	0	0	0	0	0	0	0	0	0	0	0	0		
			SW4	0	0	0	0	0	0	0	0	0	0	0	0	0		
			FB	11	0	0	0	0	0	0	0	0	0	3	0	14	3 BAEA	
			PH1	0	0	0	0	0	0	0	0	0	0	0	0	0		
2 /22	IED.	D1.4	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0		
2/22	JED	PM	SW1	1	0	0	0	0	0	0	0	0	0	1	0	2	1 GBHE	
			SW2 SW3	0	0	0	0 14	0	0	0	0	0	0	0	0	0 14		
			SW4	0	0	0	0	0	0	0	0	0	0	0	0	0		
			FB	0	0	0	0	0	0	0	0	0	0	0	1	1	BAEA	
			PH1	0	0	0	0	0	0	0	0	0	0	0	3	3	BAEA	
			PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	DALA	
2/23	JWR	AM	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0		
_,			SW2	0	0	0	0	0	0	0	0	0	0	0	0	0		
			SW3	0	0	0	0	0	0	0	0	0	0	0	0	0		
			SW4	0	0	0	0	0	0	0	0	0	0	0	0	0		
			FB	0	0	0	0	0	0	0	0	0	0	0	0	0		
			PH1	0	0	0	0	0	0	0	0	0	0	0	0	0		
			PH2	0	0	0	0	0	0	0	0	0	0	0	0	0		
2/24	JWR	PM	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0		
			SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	_	
			SW3	0	0	0	5	0	0	0	0	0	0	0	5	10	GBHE	
			SW4	0	0	0	0	0	0	0	0	0	0	0	0	0		

Key: BAEA = Bald Eagle; GBHE = Great Blue Heron; COME = Common Merganser

	The Dalles North													
Date	All Chinook	Adult Chinook	Jack Chinook	All Steelhead	Clipped Steelhead	Unclipped Steelhead	All Coho	Adult Coho	Jack Coho	Sockeye	Chum	Pink	Lamprey	
2/18	0	0	0	0	0	0	0	0	0	0	0	0	0	
2/19	0	0	0	0	0	0	0	0	0	0	0	0	0	
2/20	0	0	0	1	0	1	0	0	0	0	0	0	0	
2/21	0	0	0	-1	-1	0	0	0	0	0	0	0	0	
2/22	0	0	0	1	0	1	0	0	0	0	0	0	0	
2/23	0	0	0	0	0	0	0	0	0	0	0	0	0	
2/24	0	0	0	0	0	0	0	0	0	0	0	0	0	
total	0	0	0	1	-1	2	0	0	0	0	0	0	0	
	fish counts													



	_		USGS:
	Secchi:		Temperatures
2/18	3.0	Sun	40.3
2/19	4.0	Mon	39.9
2/20	4.0	Tue	39.6
2/21	3.5	Wed	39.5
2/22	4.5	Thurs	39.3
2/23	4.0	Fri	38.9
2/24	3.5	Sat	38.8
	3.8	AVG	39.5

Lower Columbia River Temperature Report for February 2018

The Dalles Dam Daily Readings and Averages for

Temperatures, Secchi, Entrances, and Spill

= Out of criteria

	North I	Ladder												
Date:	North E	intrance			East Entrance			West E	ntrance	South Entrance				
	Differential	N1 Depth	Differential	E1 Depth	E2 Depth	E3 Depth	JP 6	Differential	W1 Depth	W2 Depth	W3 Depth	Differential	S1 Depth	S2 Depth
2/18	1.3	10.7												
2/19	1.4	10.7												
2/20	1.3	9.5												
2/21	1.2	9.6			Eas	st La	dder	dew	atere	d for	win	ter		
2/22	1.3	9.4												
2/23	1.3	9.5												
2/24	1.3	9.4												
AVG:	1.3	9.8												

Fishways are inspected twice daily plus one SCADA inspection.



Construction of AWS 10' valve room.