The I	Dalles Darr	THE DALLES DAM The Dalles Project-Fisheries P.O. Box 564 The Dalles, OR 97058-9998 Phone: 541-506-3800					
1	nspection Perio	Portiano District	Filone: 541-500-5600				
The Dalles Dam	Inspections Out of Criteria	Criteria Limit	Total Number of Ins Comments	pections:	21 Tempera Secchi:	ature: 43.5 °F 4.6 feet	
	outoronionia	Linin	<u>.</u>		jsecciii.	4.0 1001	
			NORTH F	ISHWAY			
Exit differential	0	≤ 0.5'					
Count station differential	0	≤ 0.3'					
Weir crest depth	0	1.0' ± 0.1'					
Entrance differential	1	1.0' - 2.0'	1.2	PUD Breaker trip			
Entrance weir N1	0	depth (≥ 8')	9.4	ļ			
Entrance weir N2	0	Closed					
PUD Intake differential	0	≤ 0.5'	0				
			EAST FIS	SHWAY			
Exit differential	5	≤ 0.5'					
Removable weirs 154-157	5	Per forebay	weir 156 inop-TE	DE fixed			
Weir 158-159 differential	0	$1.0' \pm 0.1'$					
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'	1.6				
Entrance weir E1	0	No criteria					
Entrance weir E2	0	depth (≥ 8')	11.9				
Entrance weir E3	0	depth (≥ 8')	11.9				
Collection channel velocity	0	1.5 - 4 fps	2.5fps				
Transportation channel velocity	0	1.5 - 4 fps	2.6fps				
North channel velocity	0	1.5 - 4 fps	2.4fps				
South channel velocity	0	1.5 - 4 fps	2.9fps				
West entrance differential	0	1.0' - 2.0'	1.5				
Entrance weir W1	0	depth (≥ 8')	8.5				
Entrance weir W2	0	depth (≥ 8')	8.5				
Entrance weir W3	0	No criteria					
South entrance differential	0	1.0' - 2.0'	1.5				
Entrance weir S1	0	depth (≥ 8')	8.7				
Entrance weir S2	0	depth (≥ 8')	8.7				
			JUVENILE				
Sluicegate operation	0	Units 1, 21	1-2, 1-3 - 21-1, 21-2	and endgate open			
Turbine trashrack drawdown	0	<1.5', wkly	range: 0.1-0.8'				
Spill volume/pattern	0	None					
Turbine Unit Priority	5	per FPP	MU4 FOOS				
Turbine 1% Efficiency	0	per FPP					

OTHER ISSUES:

Birds and Sea lions:

gull and cormorant numbers and activity increasing. No sea lions spotted

Operations

NWCPUD performed a load reject test at The Dalles Fishway plant on 3/20/18 to review actual plant responses. During the test, the circuit breaker at Spearfish Substation was tripped by KPUD at 09:00. The plant failed to automatically bypass water until an operator could intervene. The bypass flow was restored at approximately 10:00 and NWCPUD resumed troubleshooting the restart procedure at the plant. North and east fishways in full operation. Sluiceway open with 4 gate operation. Six gate operation will start Apr 1.

Current Outages;

MU4 OOS 0001 3/19/2018 - 1700 4/5/2018 for Annual, Blade Seal Replacement and T2 Dobel testing MU5 FOOS 1135 3/22/2018 - 1700 4/17/2018 for blade seal inspection . MU9 OOS 0001 3/5/2018 - 1700 4/12/2018 for Annual MU10 OOS 0730 3/5/2018 - 1700 5/3/2018 for O/H MU15 FOOS through 1700 6/29/2019 GSU transformer replacement MU16 FOOS through 1700 6/29/2019 for GSU transformer, Exciter, Head Cover Upgrade & Strainer MU17 OOS 0630 9/11/2017 - 1700 4/12/2018 for O/H MU18 OOS 0630 1/8/2018 - 1700 4/12/2018 for O/H MU18 OOS 0630 1/8/2018 - 1700 4/12/2018 for O/H & Head cover upgrade MU19 FOOS 1708 2/12/2018 - 1700 5/31/2018 for transformer acetylene production MU20 FOOS 1708 2/12/2018 - 1700 5/31/2018 for transformer acetylene production

Maintenance;

Adjustable weir 157 bottom dragged on water surface, TDE fixed East exit weir 156 malfunction addressed and corrected East exit weir electrical panel FCQ7 installation completed. Demo of old FCQ7 near complete. East exit oil boom anchor installation with John Day boat. Date to be determined. Collection channel diffuser permanent closure start delayed until next winter outage. East exit 155, 156, 158 weir gearboxes rehabbed and reinstalled. Electrical hookup complete. Collection channel stuck dewatering pump removed. Repair underway. 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: AWS construction - Construction progress continues. Commissioning testing date TBD Fish Counters - Start April 1 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. ODFW resumed monthly fishway inspection visits Lamprey minor mods - Rounded entrance weir caps installed and operational prior to Ladder water up Lamprey counterbalance hoist being negotiated with project and end-user to expedite trapping

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

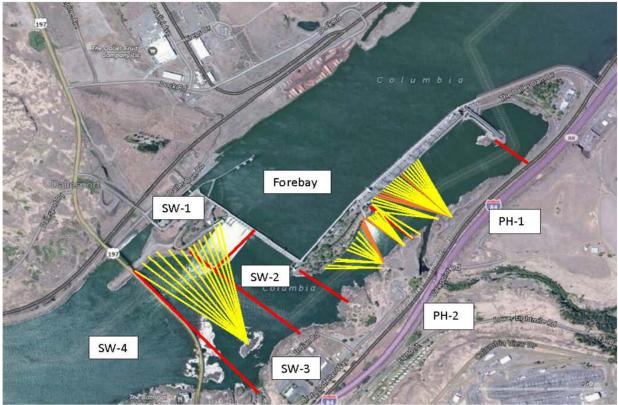
Fish unit breaker replace .- Work in progress. Completion Feb18, 2018. Two weeks commission testing required.

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

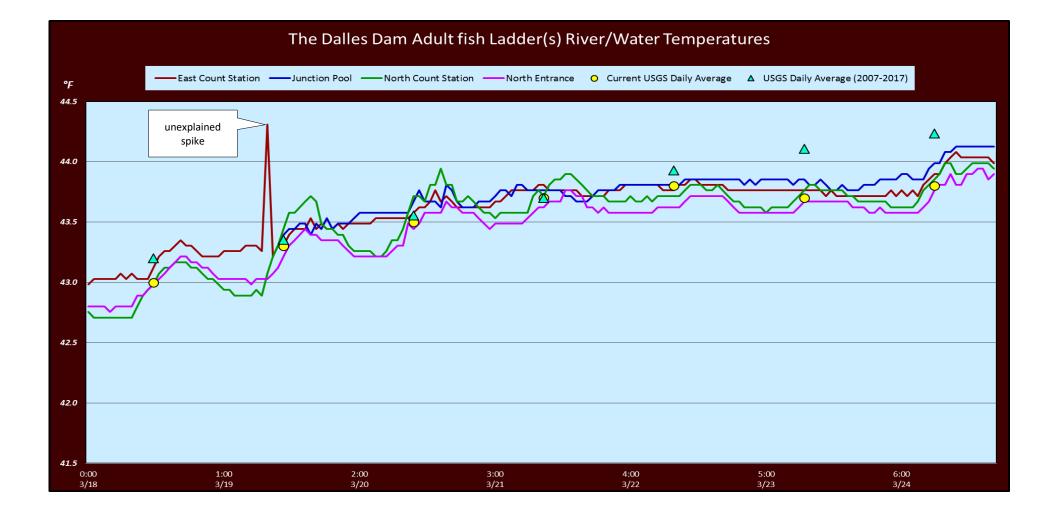


Red lines = avian zones

Yellow lines = current wires

Orange lines = down or missing wires

2018 Piscivorous Bird Counts F=foraging, NF=non-foraging																	
				G	ull	Corr	norant		ig, N⊦=non an tern		ebe	Dal	ican		her	1	Nataa
Date	Observer	AM/PM	Zone	F	NF	F	NF	F	NF	F	NF	F	NF	F	NF	Total birds in zone	Notes
			FB	Г 0	0	г 0	0	г 0	0	г 0	0	Р 0	0	Г 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	
3/18	JED	PM	SW1	0	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	3	1	0	0	0	0	0	0	0	0	0	0	4	
			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	
3/19	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	1	0	66	0	0	0	0	0	0	0	0	67	
			SW4	0	2	0	0	0	0	0	0	0	0	0	0	2	
			FB	0	0	1	5	0	0	0	0	0	0	0	0	6	
			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	
3/20	JED	PM	SW1	0	1	0	0	0	0	0	0	0	0	0	0	1	
			SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	
			SW3	0	0	0	27	0	0	0	0	0	0	0	0	27	
			SW4	0	28	0	6	0	0	0	0	0	0	0	0	34	
			FB	0	0	0	47	0	0	0	0	0	0	0	0	47	
			PH1	1	0	0	0	0	0	0	0	0	0	0	0	1	
2/21	JWR		PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	
3/21		AM	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	
			SW2 SW3	0	0	0	0	0	0	0	0	0	0	0	0	0 4	
			SW3 SW4	0	33	0	4	0	0	0	0	0	0	0	0	4 35	
			5W4 FB	0	0	1	0	0	0	0	0	0	0	0	0	1	
			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	
3/22	CEA	PM	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	
5/22	CLA		SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	
			SW3	0	0	0	12	0	0	0	0	0	0	0	0	12	
			SW4	7	55	1	3	0	0	0	0	0	0	0	0	66	
			FB	3	0	1	33	0	0	0	0	0	0	0	0	37	
			PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	
			PH2	0	0	1	0	0	0	0	0	0	0	0	0	1	
3/23	CEA	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	5	0	0	0	0	0	0	0	0	5	
			SW4	0	4	0	0	0	0	0	0	0	0	0	0	4	
			FB	0	0	0	0	0	0	0	0	0	0	0	0	0	
		PM	PH1	1	0	0	0	0	0	0	0	0	0	0	0	1	
			PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	
3/24	JWR		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	1	0	18	0	0	0	0	0	0	0	0	19	
			SW4	3	29	0	2	0	0	0	0	0	0	0	0	34	



				USGS:	USGS ri	ver temp								
		Secchi: 4.5	Sun	Temperatures										
	3/18	4.5 4.5	Sun Mon	43.0 43.3									1	
	3/19	4.5	Tue	43.5			The Da	alles Dam Da	ily Reading	s and Averag	ges for			
	3/20	4.0	Wed	43.5										
	3/21 3/22	4.5 5.0	Thurs	43.7			Te	nperatures,	Secchi, Entr	ances, and \$	Spill			
	3/22	5.0	Fri	43.7										
	3/23	4.5	Sat	43.8										
		4.6	AVG	43.5				-	= Out of criteri	а				
Datas		Ladder		East Ladder East Entrance South Entrance South Entrance										
Date:		intrance	Differential		East Entrance			Differential			W/2 Denth		South Entranc	-
	Differential	N1 Depth	Differential 1.7	E1 Depth	E2 Depth 12.0	E3 Depth 12.0	JP 6 12.4	Differential 1.3	W1 Depth 8.8	W2 Depth 8.8	vv 3 Depth	Differential 1.5	S1 Depth 8.7	S2 Depth 8.7
3/18	1.4	9.6	1.7		12.0	12.0	12.4	1.5	8.9	8.9		1.5	8.8	8.8
3/10	1.4	9.6	1.7		12.0	12.0	13.0	1.3	9.1	9.0		1.4	8.9	8.9
		5.0	1.6		11.9	11.9	13.3	1.4	8.8	8.8		1.5	8.7	8.7
3/19	1.3	9.4	1.8		11.9	11.9	13.3	1.5	8.8	8.8		1.4	8.8	8.8
0,10	1.3	9.5	1.6		12.0	12.0	12.5	1.3	8.8	8.8		1.8	8.8	8.8
		1	1.7		12.0	12.0	13.0	1.4	8.8	8.8		1.4	8.7	8.7
3/20	0.0	9.4	1.6		11.9	11.9	12.9	1.4	8.9	8.7		1.4	8.6	8.6
	1.3	9.5	1.5		12.0	12.0	12.0	1.5	8.2	8.2		1.4	8.8	8.7
		• •	1.7		12.0	12.0	12.7	1.5	8.4	8.4		1.4	8.7	8.7
3/21	1.3	9.4	1.7		12.0	12.0	12.4	1.4	8.4	8.4		1.4	8.8	8.8
	1.3	9.5	1.5		12.0	12.0	12.4	1.5	8.2	8.2		1.5	8.6	8.6
			1.7		12.0	12.0	13.6	1.6	8.3	8.3		1.6	8.6	8.6
3/22	1.4	9.3	1.7		10.0	10.0	13.6	1.5	8.6	8.6		1.5	8.7	8.7
	1.1	9.5	1.6		12.0	12.0	13.2	1.5	8.3	8.3		1.5	8.8	8.8
0/00	1.2	0.4	1.7		12.0	12.0	13.6	1.6	8.3	8.3		1.6	8.6	8.6
3/23	1.3 1.3	9.4 9.4	1.5 1.7		12.0 12.0	12.0 12.0	12.7 12.7	1.4 1.5	8.3 8.4	8.3 8.3		1.4 1.4	8.7 8.7	8.7 8.7
	1.3	9.4	1.7		12.0		12.7			8.3 8.3				8.7 8.7
3/24	1.3	9.3	1.7		12.0	12.0 11.9	12.7	1.5 1.5	8.3 8.2	8.3		1.4 1.5	8.7 8.6	8.7
5/24	1.3	9.5	1.7		11.9	11.9	12.0	1.5	8.2	8.2		1.5	8.0	8.7
AVG:	1.2	9.4	1.6		11.9	11.9	12.1	1.5	8.5	8.5		1.5	8.7	8.7
	1.2	5.4	1.0		11.3	11.3	12.0	1.5	0.5	0.5		6.1	0.7	0.7



Current AWS Progress