The		·	Status Report		I ri	n i		ES DAM es Project-Fisheries x 564
	Febr	of Engi		The Dal	es, OR 97058-9998			
	nspection Perio	d: Feb. 17 -	Feb. 23, 2019		Portland	District	Phone:	541-506-3800
The Dalles Dam	Inspections Out of Criteria	Criteria Limit	Total Number of Ins Comments:	pections:		Tempera Secchi:	ature: 5+	36.2 °F feet
	I	NORTI	H FISHWAY - Returne	ed with bypass flow F	eb 7	<u>.</u>		
Exit differential	0	≤ 0.5'						
Count station differential	0	≤ 0.3' ≤ 0.3'						
Weir crest depth	0	1.0' ± 0.1'						
Entrance differential	0	1.0' - 2.0'	1.4					
Entrance weir N1	0	depth (≥ 8')	9.4					
Entrance weir N2	0	Closed	3.4					
PUD Intake differential	0	≤ 0.5'						
	0				_			
		EA	ST FISHWAY - Fish u	inits off, AWS off Feb7	7			
Exit differential	0	≤ 0.5'						
Removable weirs 154-157	4	Per forebay	Weir 157 cable failure	When forebay < 159.	5 east exit	in criteria		
Weir 158-159 differential	2	1.0' ± 0.1'		ing. Limit switch adjuste				
Count station differential	0	≤ 0.3'		- · · ·				
153 Weir crest depth	2	1.1' ± 0.1'	Result of 157 failure					
Junction pool weir JP6	0	0.0						
East entrance differential	7	1.0' - 2.0'	No attraction flow					
Entrance weir E1	closed	No criteria						
Entrance weir E2	0	depth (≥ 8')						
Entrance weir E3	0	depth (≥ 8')						
Collection channel velocity	closed	1.5 - 4 fps						
Transportation channel velocity	closed	1.5 - 4 fps						
North channel velocity		1.5 - 4 fps	2.4 fps on 2/21/2019					
South channel velocity	closed	1.5 - 4 fps						
West entrance differential	15	1.0' - 2.0'						
Entrance weir W1	15	depth (≥ 8')						
Entrance weir W2	15	depth ($\geq 8'$)						
Entrance weir W3	closed	No criteria		FISHLA	DDER FLC		1	
South entrance differential	15	1.0' - 2.0'						
Entrance weir S1	15	depth (≥ 8')						
Entrance weir S2	15	depth ($\geq 8'$)						
			JUVENILE F	DASSAGE				
Sluicegate operation	0		MU1 (<u>1-1</u>) & MU18 (<u>1</u>	8-3) endgate closed				
Turbine trashrack drawdown	0	<1.5', biwkly						
Spill volume/pattern	0	None						
Turbine Unit Priority	0	per FPP	Bus maintenance wor	k				
Turbine 1% Efficiency	0	per FPP						

OTHER ISSUES:

Predators;

USDA contract in progress. Possible loss of ability to haze sea lions near entrances due to authority issues. NOAA and NWD informed of dilemna. No Sea Lion observations

Operation:

North fish ladder returned to service 2/7 with bypass flow for entrance attraction.

East fishladder in service. AWS backup closed 2/7 with return of north fishway. Fish units remain out of service for breaker replacement through mid March. AWS backup to return to service Feb 28.

Current Outages;

FU1 and FU2 OOS for annual/overhaul maintenance and breaker replace. RTS slipped from 1/9/19 to approximately mid March. MU1 and MU2 (T1 transformer) OOS for FU breaker replace. RTS 2/26/19 - Schedule slipped from 1/9/19 MU5 forced OOS blade seals and T3 transformer replace. RTS 7/12/2019. MU6 OOS annual and T3 transformer replace. RTS 7/12/2019. MU13 OOS OOS annual. RTS 3/29/2019 MU14 OOS overhaul. RTS 3/29/2019 MU15 OOS exciter replace. RTS 2/27/2019 MU16 OOS exciter replace. RTS 3/28/2019. MU16 OOS exciter replace. RTS 3/28/2019. MU16 OOS exciter replace. RTS 3/28/2019.

Maintenance

Weir 157 cable failure causing some ladder flow criteria problems. Repair planned prior to 3/1/19.

Collection channel dewatering pumps 5 and 6 removed for rehab. Housing crack repair underway.

Fishway automation equipment assembly starting. Install winter of 2019/20

Diffuser valve status evaluation ongoing. Planning underway for rehab.

Vegetation removal from south channel rock walls complete. Goats to remove vegetation on top side in March.

Fish related /non-fish funded items; Spillway assessment underway. Spillway crane replace and spillgate 9 repair included.

All spillway items on Critical Infrastructure. Spillgate 9 on large cap list, projected for 2022. Comprehensive spillway assessment review underway.

Research/Construction/Contractors:

Bathymetry of spillwall and spill basin completed. District dive/ROV personnel inspected spill basin w/ ROV unit (12/11), awaiting results

Video monitoring at east count station for AWS operation; Ten chinook and 39 steelhead passed while AWS backup open. One steelhead while closed.

AWS construction - Follow on construction items identified. Does not affect ability to operate. Construction through summer.

PSMFC weekly sampling for North Wasco County PUD resumes 4/1/19. New sample collection tank installation postponed to winter 2019/20.

PITAGS North and east fishladder data collection at count stations continues.

Fish Counters - Likely start with video 4/1/19 until contractor issues resolved. Fish Field Unit to provide video support.

Pikeminnow dam angling - Caught 1785 YTD. Fishing resumes next spring. Debate over release of invasive bass and walleye continues in FPOM.

ODFW report from last summer walleye gut samples John Day; "Probablity of salmon in the diet was higher for walleye than northern pikeminnow (.214 vs .133)"

ODFW monthly fishway inspections concluded 10/16. Awaiting annual report.

Lamprey minor mods - Site visit for potential LPS planning.

Univ of Idaho lamprey radiotelemetry - Second season of lamprey passage night flow reduction test to resume in May.

Tribal lamprey trapping - Project to constuct single lift hoist mechanism prior to next trapping season.

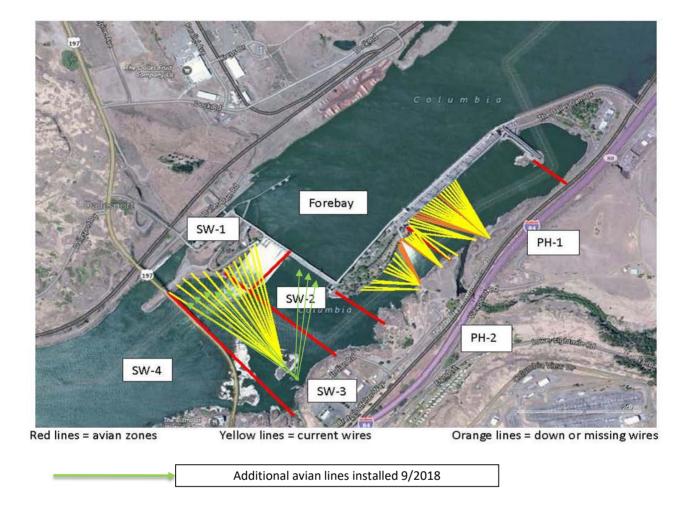
Fish unit breaker replace .- Schedule delay completion slip to mid March, with additional 1 week functional testing by project. AWS backup open during this time.

Fish unit rehab - Test of AWS backup with single fish unit complete. Will affect rehab alternative selection.

Transformer replacement - Install T3 underway (units 5 and 6). Sequence schedule modified from original

Approved by: Mike Colesar acting for Ron Twiner

Operation Project Manager The Dalles Dam

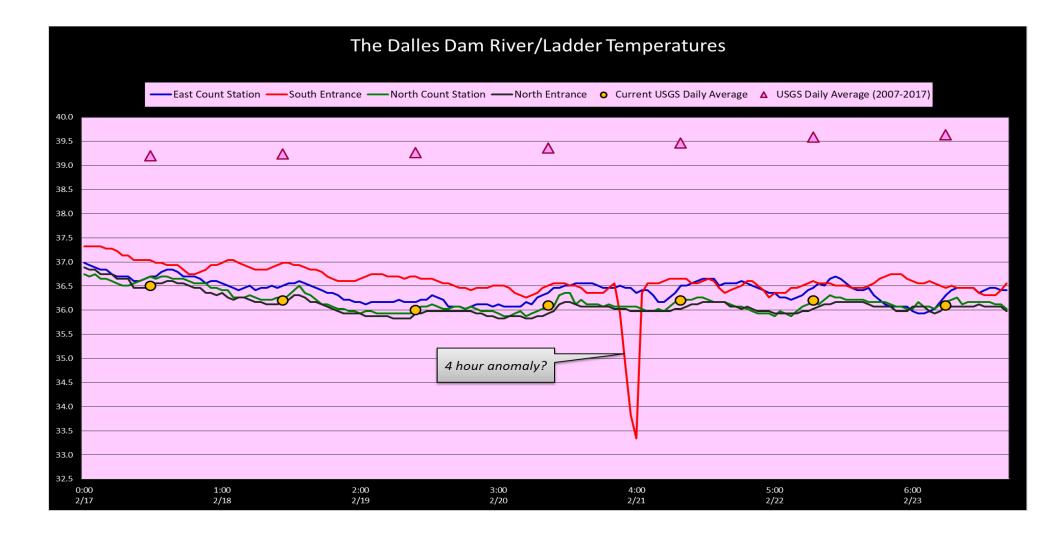


							201	9 Pis	scivo	rous	Bird	Cour	nts			
									F=foragin	g, NF=non	-foraging					
0		7	Gull		Cormorant		Caspian tern		Grebe		Pelican		Other		Total birds in	Notes
Observer	AM/PM	Zone	F	NF	F	NF	F	NF	F	NF	F	NF	F	NF	zone	
		FB	0	0	0	0	0	0	0	0	0	0	0	0	0	
		PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	
		PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	
	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	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	
	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	
	1															

Date

2/17/19

			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	
2/18/19		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	4	0	0	0	0	0	0	0	2	1	7	2 BAEA F, 1 GBHE NF
			PH1	0	0	0	0	0	0	0	0	0	0	1	0	1	BAEA
			PH2	0	0	0	0	0	0	0	0	0	0	0	13	13	12 BAEA, 1 GBHE
2/19/19	CEA	PM	SW1	0	0	0	0	0	0	0	0	0	0	1	0	1	COME
			SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	
			SW3	0	0	0	37	0	0	0	0	0	0	0	0	37	
			SW4	0	0	0	0	0	0	0	0	0	0	0	1	1	BAEA
			FB	5	0	0	0	0	0	0	0	0	0	5	0	10	BAEA
			PH1	1	0	0	0	0	0	0	0	0	0	0	1	2	GBHE
			PH2	0	0	0	0	0	0	0	0	0	0	2	5	7	1 BAEA F, 1GBHE F, 5 BAEA NF
2/20/19	JED	AM	SW1	0	0	0	0	0	0	0	0	0	0	4	0	4	BAEA
			SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	Mixed sun, wind 10mph E, 38F
			SW3	0	0	1	35	0	0	0	0	0	0	4	2	42	4 COME F, 2 BAEA NF
			SW4	0	0	0	0	0	0	0	0	0	0	2	0	2	BAEA
			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	13	13	BAEA
2/21/19	JED	PM	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	Sunny, 40F, calm
			SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	
			SW3	0	0	1	14	0	0	0	0	0	0	10	0	25	COME
			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	4	4	BAEA
			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	9	9	8 BAEA, 1 GBHE
2/22/19	CEA	AM	SW1	0	0	0	0	0	0	0	0	0	0	1	1	2	1 COME F, 1 BAEA NF
			SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	
			SW3	0	0	0	14	0	0	0	0	0	0	0	0	14	calm, partly cloudy, approx 27 F
			SW4	0	0	0	0	0	0	0	0	0	0	0	0	0	
			FB	0	0	0	2	0	0	0	0	0	0	0	4	6	3 BAEA, 1 GBHE
			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	4	4	BAEA
2/23/19	CEA	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	Sunny, 40F, calm
			SW3	0	0	0	17	0	0	0	0	0	0	0	0	17	
			SW4	0	0	0	0	0	0	0	0	0	0	0	0	0	



				USGS:	USGS river temp F	ebruary.							
	[Secchi:		Temperatures									
	2/17	5+	Sun	36.5							I		
	2/18	5+	Mon	36.2		The I	Dalles Dam Daily	Readings and Avera	ges for				
	2/19	5+ 5+	Tue Wed	36.0 36.1			-	-	-			= Out of criteria	
	2/20 2/21	5+	Thurs	36.2		Т	emperatures, Se	cchi, Entrances, and	Spill		-		a
	2/21	5+	Fri	36.2									
	2/23	5+	Sat	36.1									
		5+	AVG	36.2									
Data	North L North Er				East Entrance		East Lad	der West Entrance			South Entrance		
Date:			Differential	E1 Depth	E2 Depth E3 Depth	JP 6		/1 Depth W2 Depth	W2 Dopth				
	Differential		Dinerential	L i Deplii		JF O			vvo Deptil L	Juerenual	or Deptil	52 Deptil	
2/17	1.3	9.7											
2/18	1.5	9.0											
2/19	1.3	9.6											
	1.0	5.0											
2/20	1.4	9.5				C	out of so	ervice					
2/21	1.3	9.6											
2/21	1.5	5.0											
2/22	1.4	9.4											
0/00													
2/23	1.4	9.3											
AVG:	1.4	9.4											
				Fishv	vays are inspect	ed twice	daily plus of	ne SCADA ins	pection.				
							ur 1	1					