

Sustaining Production Through Infrastructure: Clearwater Pipeline & Dworshak NFH Updates

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Building the Dworshak National Fish Hatchery

- First concrete poured: December 27, 1967
- Hatchery was accepted from the contractor on Oct. 1, 1969
- Phase 1 cost: \$8.64 million
- Result: Largest steelhead hatchery ever built



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First Annual Report

“Operation of the hatchery was attended by many problems. The contractor was constantly behind schedule in his completion of component parts of complex. At times, a facility was rushed to completion immediately prior to its requirement. In certain instances, substitution had to be made temporarily to allow for satisfactory operation of the project.”



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First-Year Biological Observations

- Female brood ratio of approximately 70%
- Higher fecundity than expected
- Eggs hatched much sooner than was to be expected
- Feeding occurred relatively early
- Appears metabolism is considerably faster than expected



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First-Year Operational Observations

- Additional 56 ponds (Phase 2) may not be necessary
- Installed screen size limited Burrows pond self-cleaning
- Fish would not exit ponds when outlet gates were opened without manual crowding
- Installed turning vanes hindered manual crowding



First steelhead smolt release April 20, 1970



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Adapting the Facility From the Beginning



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Dworshak NFH, 1970 vs. 2025



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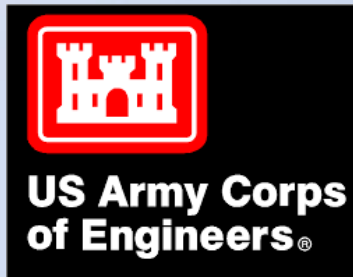
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Dworshak NFH Production Today

Species	Program	FPP	Number	Pounds
Steelhead	USACE	5.8	2,100,000	362,069
Spring Chinook	LSRCP	20	1,650,000	82,500
Coho	NPT	20	1,050,000	52,500
			4,800,000	497,069



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A Legacy of Facility Improvements: Recent Accomplishments



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Pipeline Access Road



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Pipeline Access Road



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Pipeline Access Road



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Pipeline Access Road

Phase 1



Phase 2



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Phase 2 Accomplishments



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Phase 2 Accomplishments



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Phase 3?



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Ported Sleeve Valve Actuators

Dworshak Small Hydropower Plant



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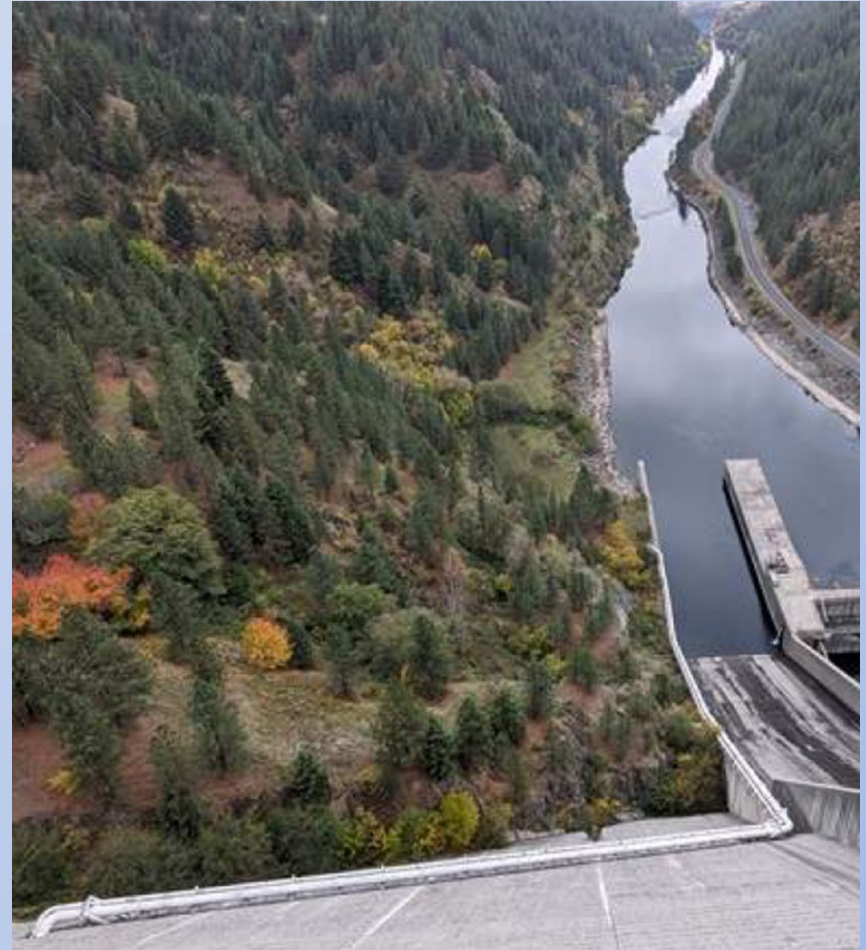
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Pipeline Inspection

- Business research has identified pipeline-inspection specialists and compiled contractor capabilities
- ROV-based inspection feasibility, including constraints tied to limited access points
- Operational demands at the hatcheries restrict shutdown opportunities, making inspection timing a key challenge
- Replacement of air relief valves add to timeline complexity if drain and refill is needed



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Fish Release Structure



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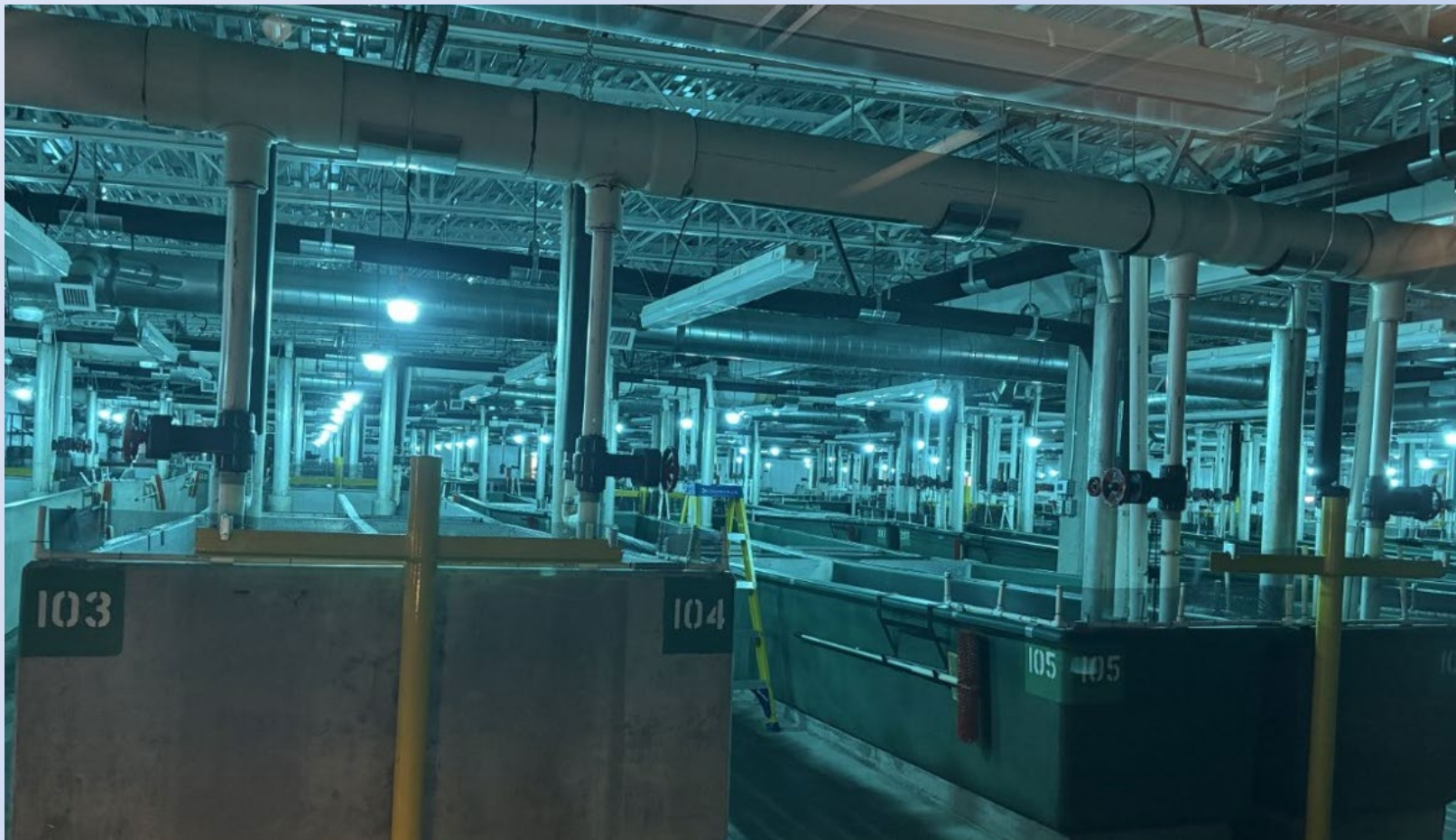
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Nursery Lighting



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Enhancing Electrical Reliability Across the Facility



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Domestic Water Line Replacement



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A Legacy of Facility Improvements: Projects In the Queue



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Burrows Pond Rehabilitation



Epoxy coat 19 Burrows ponds



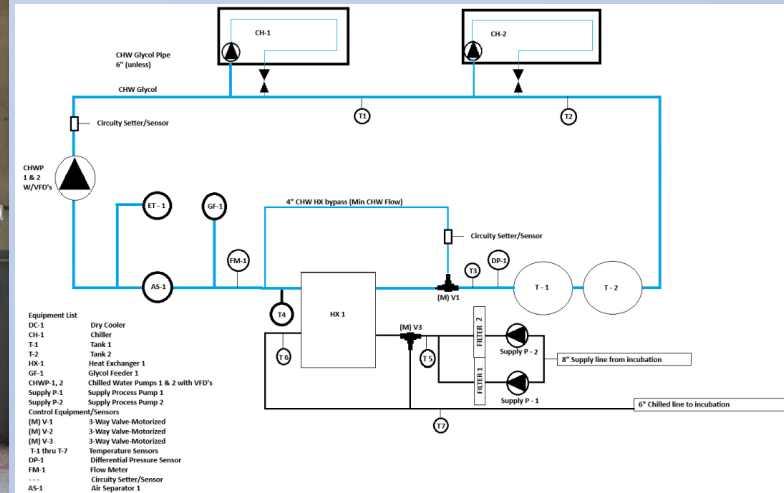
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Chiller Modernization



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Increasing River Pump Capacity for Future Reliability

- Upsizing river pumps
- Increasing reserve capacity
- Adding operational flexibility for the future



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Inspection and Repair of Traveling Screens



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Infrastructure alone doesn't produce fish....



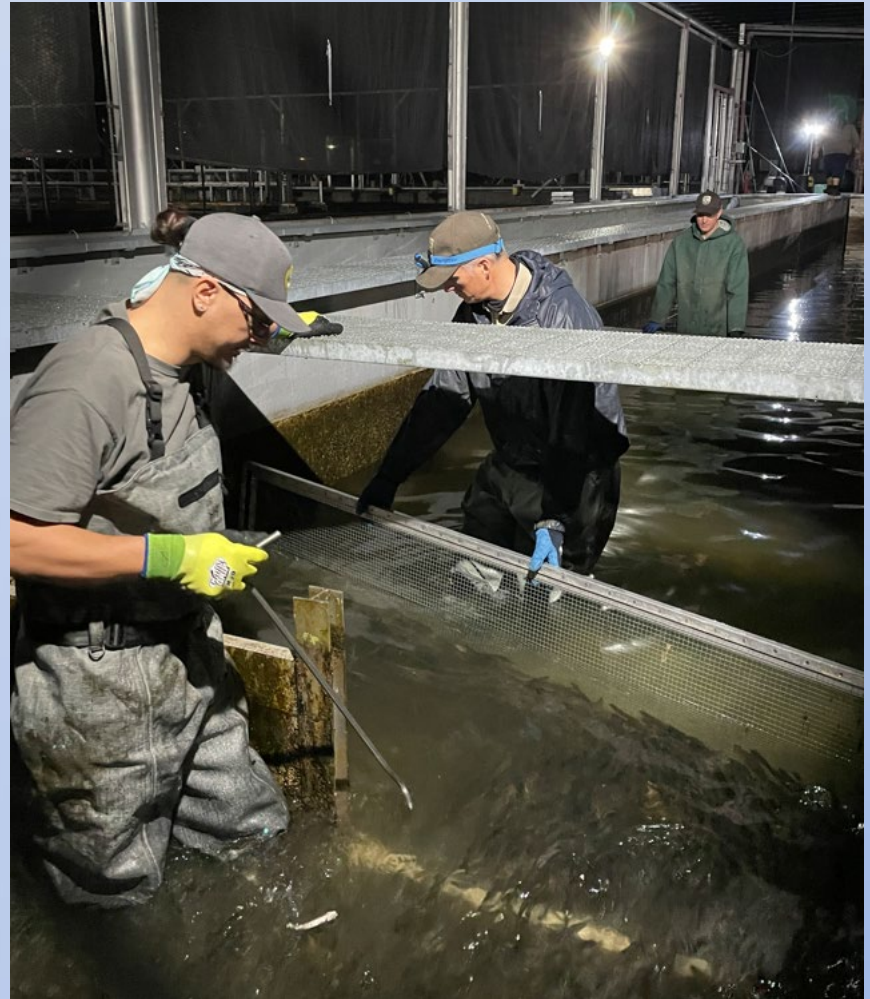
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Fish for the Future: Putting the Mission Into Practice

Thank you Nate, for rolling up your sleeves and putting in the work for the benefit of all our programs within LSRCP.



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