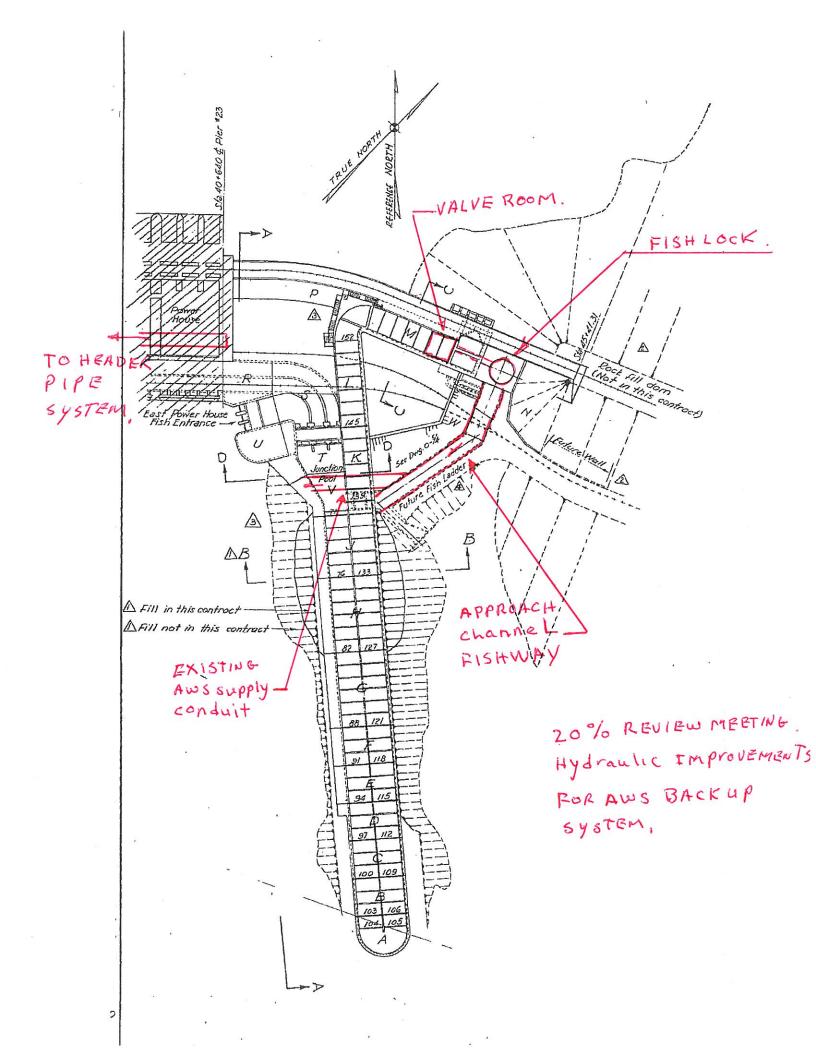


USACE TO #26 - Brainstorming Meeting - December 8, 2010

Criteria for Ranking:				
	² Est.	³ Implement/	4	
'General Scoring:	Construction Time:	Switchback Time:	⁴ Cost:	⁵Total Scores:
N/A = 0	< 6 months = 4	hours = 4	high = 0	Poor = 8
Poor = 1	6-12 months = 3	days = 3	medium-high = 1	Fair = 16
Fair = 2	12-18 months = 2	weeks = 2	medium = 2	Good = 24
Good = 3	18-24 months = 1	months = 1	low-medium = 3	Excellent = 32
Excellent = 4	24+ months = 0		low = 4	

			Rated Item	Rated Item	Rated Item	Rated Item	Rated Item	Rated Item	Rated Item	Rated Item			
	Alternatives								Post-Construction				
No.	Description	Fish Passage Requirements	Fish Agency/ Biological Concerns ¹	Estimated Construction Time ²	Implement/ Switchback Time ³	Cost⁴	Constructability ¹	Disruption to Project Operations ¹	Reliability ¹	Maintenance Aspects ¹	Miscellaneous Concerns	Total Score⁵	Ranking
1		Fish screens need to be considered for siphon intakes	3	2	4	4	3	4	3	3	- Rehab fish lock - Priming pump - Exercise valves	26	3
2	(boring tunnels under dam to increase	Fish screens need to be considered for siphon intakes	3	1	4	0	2	4	4	4	- Deep water intake (lamprey) - Construction - mining under dam into water, dam safety	22	8
3	Ice Trash Sluice Water Tap (either below or along side)										- Not rated due to biological and physical constraints		
4		Fish screens required	3	2	4	2	3	4	4	4	- Dam safety - mining through dam - Underwater construction	26	5
5	Install Concrete Lid on Open Channel Fishway										- Not rated - use as a potential component with Alternatives 1, 2, and 4.		
6	Tainter Gate # 23 (modify stoplogs with a pipe to AWS culvert)	Fish screens required	3	2	2	2	3	2	3	3	- Assumes screen is part of fabricated unit.	20	9
7	(with maximum flow of 5,000 cis;	Fish screens or mitigation may be required depending on depth of intake	3	0	4	0	0	4	3	1	- Time to construct - Major disruption to overall operations during construction - Buy in from NW Power Council	15	11
8	Pipe(s) to AWS Culvert (using existing 8' x 8' opening; full length pipe)	Fish screens	3	1	4	3	3	4	4	4	- Energy dissipation - Isolate east entrance - Exercise valves	26	4
9	Remove Flow Restrictions on Current System (at fish lock and downstream)										- Not rated - use as a potential component for Alternatives 1, 2, 4, and 5.		
10	Side	Fish screens will be required based on depth variables	2	0	4	0	3	4	1	0	- Sturgeon in cul de sac (spawning or congregation area?) predator issues - Constructed in the wet -Some minimal power use - High maintenance	14	12
11	Upstream Intake Tower with Siphon	Assumes no screens needed	2	1	4	2	3	4	3	3	- 'Predator habitat	22	7



THE DALLES DAM - FISH LOCK Corps of Engineers, Portland District

