

MEMORANDUM FOR THE RECORD

SUBJECT: 22BON003 Unit 11 Outage and STS Failure

At 2129 on Wednesday 02 March, the submersible traveling screen (STS) in slot 11C of Powerhouse 2 (PH2) tripped the overamp alarm, causing its breaker to trip. With the STS inoperable, Unit 11 was forced Out of Service (OOS) until the STS was repaired. It was found that the STS in slot 11C had a dislodged idler shaft. The STS was repaired the following morning, allowing both the STS and U11 to Return to Service at 1001 on 03 March.

Only Units 12 and 14 were available and running at PH2 during this outage of U11. As a result, BON was running out of unit priority to facilitate the STS repair while other planned and forced outages were also occurring at PH2 (See Table BON-13 from FPP 2021). Unit 13 is currently forced OOS due to a generator ground. Units 15-18 are OOS due to a Bonneville Power Administration (BPA) planned outage. The change in unit priority and absence of U11 running is expected to have minimal effects on downstream juvenile passage, as downstream passage is minimal at this time. U11 provides attraction flow for the south Washington Shore Fishway entrances at PH2. The U11 outage is also expected to have minimal impact on upstream migrants. Current fish passage data shows there was only 147 steelhead passing as of 01 March.

- A. Species – Steelhead
- B. Origin – N/A
- C. Length – N/A
- D. Marks and tags – N/A
- E. Marks and Injuries found on carcass – N/A
- F. Cause and Time of Death – N/A
- G. Future and Preventative Measures – STS maintenance and repairs as needed

Table BON-13. Bonneville Dam Turbine Unit Priority Order.

PERIOD / OPERATION	UNIT PRIORITY ORDER
Year-Round: Fish Ladders in service; PH1 Ladder OOS	PH2: 11, 18, 12, 17, 13, 14, 15, 16, Then PH1: 1, 10, 3, 6, 9, 4, 5, 8, 7, 2
PH2 Fish Ladder out of service	PH1: 1, 10, 3, 6, 9, 4, 5, 8, 7, 2, Then PH2: 11, 18, 12, 17, 13, 14, 15, 16
Split Flows (see section 2.1.5)	PH1: 1, 10 (or top two available PH1 priority units), Then PH2: 11, 18, 12, 17, 13, 14, 15, 16, Then PH1: 3, 6, 9, 4, 5, 8, 7, 2
PH1 Unit Priority	1, 10, 3, 6, 9, 4, 5, 8, 7, 2
PH2 Unit Priority	11, 18, 12, 17, 13, 14, 15, 16

Sincerely,
Bonneville Project Fisheries