

MEMORANDUM FOR THE RECORD

SUBJECT: 21BON009 U14 and U15 Outages and STS Failure

On Saturday May 29 at 1858, the STS in slot 14C of Powerhouse 2 over-amped and tripped the breaker. With this STS inoperable, U14 was forced out of service at this time. The STS in 14C was found to have motor failure, the motor was replaced, and Unit 14 returned to service at 0912 on 02 June.

The night of 01 June, the STS in slot 15C was giving off high amps, just as 14C had. Unit 15 was taken out of service on 02 June at 1000 to troubleshoot the issue with the STS motor. Motor failure was found, fixed, and U15 returned to service at 1702 on 02 June.

During these outages, BON Ops was able to use U15 in place of U14 and U16 in place of U15. Both U14 and U15 fall low in the FPP guidance unit priority order (See Table BON 13 from FPP 2021). U15 is currently a research unit with FGE (Fish Guidance Efficiency) but was only OOS for 7 hours and 2 mins. The change in unit priority is not expected to have any significant effect on downstream juvenile passage or upstream adult attraction.

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

PERIOD / OPERATION	UNIT PRIORITY ORDER
Year-Round: Fish Ladders in service; PH1 Ladder out of service	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,
Project Fisheries