

MEMORANDUM FOR THE RECORD

SUBJECT: 21BON098 U11 Outage and STS Repair

On the afternoon of Wednesday, 17 November, maintenance crews were raking trash off the trash racks of Unit 11 (U11) at Powerhouse 2 (PH2). After trash raking was completed, maintenance crews observed an oil sheen in gateway slot 11A. Unit 11 was forced out of service at 1459 on 17 November so that maintenance crews could assess the oil sheen and repair the submersible traveling screen (STS) motor seal. Bonneville’s Environment Team was notified immediately, and it was determined that ounces of oil leaked out of the STS motor. Once the STS motor was repaired, Unit 11 was returned to service the next day at 1531 on 18 November.

For the duration of the U11 outage, BON PH 2 was operating out of unit priority to facilitate the repair to the STS motor (See Table BON-13 from FPP 2021). The U11 outage lasted for 24 hrs and is expected to have minimal effects on downstream juvenile passage as all other PH2 units were running. Unit 11 provides attraction flow for the south shore fishway entrances at PH2. The U11 outage is expected to have minimal impact on upstream adult attraction since U12 was operating and providing attraction flow and the collection channel maintained proper entrance differentials.

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,
Bonneville Project Fisheries