**CENWP-OD-B**                                                      **02 July 2021**

**MEMORANDUM FOR THE RECORD**

**SUBJECT: 21BON025 PH1 support for 115kv line**

The FPP turbine unit priority order (see Table BON-13 below), states that all Powerhouse 2 units should be used if available before Powerhouse 1 units. However, Units 1, 2, 9, and 10 in Bonneville Powerhouse 1 are the only units able to generate power to the 115 kV grid.

- On 27 June, BPA requested BON to start one unit to support the need for more power generation to the local 115 kV grid. At 1528 U1 was turned on to generate power and has remained running. Not all units in PH2 were being used at the time, so this placed BON out of compliance (OOC) regarding unit priority order per the FPP.

- On 28 June, an Advisory Notice of Operating Plan was distributed to BON Ops with the request to have a total of two 115 kV system capable units on and generating 70 MW or greater from **1200 on 28 June** to **1600 on 02 July**.
- At 1224 on 28 June, U10 was turned on to support this MW request in addition to U1.

- At 0629 on 29 June, U9 was placed into service to generate power for the 115 kV grid.
- At 0631, U10 was taken out of service while resolving breaker issues.
- At 0900, U10 was placed back in service and returned to providing power to the 115 kV grid.
- At 0903, U9 was placed back into reserve shutdown (RS), no longer needed to generate power to meet the 70 MW requirement for BPA.

U1 and U10 will remain in service, generating power until 1600 on 02 July, unless requested otherwise.

BPA is studying the issue to determine if this will be needed in the future during extreme temperature events. If the studies show that it is needed, the action agencies will work with FPOM to develop a new unit priority section in Table BON-13 to accommodate this need.

**Table BON-1. Bonneville Dam Turbine Unit Priority Order.**

| PERIOD / OPERATION | UNIT PRIORITY ORDER |
|---|---|
| Year-Round:<br>Fish Ladders in service; PH1 Ladder out of service | **PH2**: 11, 18, 12, 17, 13, 14, 15, 16,<br>**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,<br>**Then PH2**: 11, 18, 12, 17, 13, 14, 15, 16 |
| Split Flows<br>(see **section 2.1.5**) | **PH1**: 1, 10 (or top two available PH1 priority units),<br>**Then PH2**: 11, 18, 12, 17, 13, 14, 15, 16,<br>**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