**CENWP-OD-B 31 January 2024**

**MEMORANDUM FOR THE RECORD**

**SUBJECT: 24BON005 MFR Slow Roll Operation for PH1 Oil Investigation Units**

**Background:**

Bonneville Lock & Dam has experienced several oil leaks from Powerhouse 1 (PH1) Units over the past year:

March of 2023: Oil sheens were observed in the PH1 tailrace near Units 3 and 4. After operational testing and observing, Units 3 and 4 were forced out of service until a thorough investigation and inspection could be completed.

January of 2024: Several oil sheens were observed in the Powerhouse 1 tail race on multiple occasions. Units 6, 9 and 10 were forced out of service until a full investigation and inspection of each unit has been completed, including a full dewater of each unit. For more details on each incident, please see MFRs: 24BON001, 24BON002, and 24BON003.

Due to the risk of discharging oil into the Columbia River, future dewatering procedures of Units under oil leak investigations will not include “slow rolling” the Unit prior to placing tail logs. This violates the following FPP guidance:

* **BON 4.3.4.** “Turbines that have been idle/out of service will be started by slow rolling the unit after tipping turbine blades from flat to steep and back to flat”.
* **BON 5.5.2**. “If the draft tube is to be dewatered, place head gates and tail logs immediately after the turbine unit is shut down when possible.”
* **BON 5.5.3** “If a turbine has been idle and the draft tube is to be dewatered, it will be operated when possible at full load for a minimum of 1-HR, 4-HRS preferred. Stop logs will be placed immediately.

Due to the current pattern, USACE has determined that all PH1 Units will be inspected for oil leaks. No timeline for these outages is available at this time.

Sincerely,

Bonneville Project Fisheries