

MEMORANDUM FOR THE RECORD**SUBJECT: 22BON001 MFR U11, 12, and 14 Outage****Discussion**

At 1340 on Monday 28 February, Bonneville Power Administration (BPA) MCC Line called Bonneville Control Operators to have them unload Line 3 to the North Bonneville Substation via Line 3 as fast as possible due damaged equipment. At 1343, the breaker for Unit 14 was opened and at 1344 the breakers for Units 11 and 12 were opened, placing the units out of service (OOS). At 1345, Fish Unit 1 (F1) was slowed to 1 MW, acting as the Station Service unit for Powerhouse 2 (PH2).

Unit 13 was already OOS due to a forced outage regarding a generator ground. Units 15-18 were already OOS due to a Planned BPA Outage for replacing line relays. F2 was already OOS due to a Planned Outage that was extended. After Units 11, 12, and 14 were unloaded from Line 3, PH2 no longer had any units running and there no attraction flow for the Washington Shore Fishway.

F1 was brought back to full power at 0823 on 01 March, returning attraction flow for the WA Shore Fishway using Auxiliary Water Supply Emergency Operations. Unit 11 and U12 were returned to service at 0833 and U14 was returned to service at 0835.

BPA had called Bonneville Ops around 2100 Monday, informing BON that BPA had created a temporary bus around the damaged equipment, Line 3 could be reenergized, and Units 11, 12, and 14 could return to service. Due to HECF and manning requirements, Line 3 remained down until the previously referenced times in paragraph three.

Fish Impacts

With all units at PH2 OOS, including the Fish Units, the entire PH2 fishways had minimal to no attraction flow. Any fish attempting to migrate upstream via PH2 would not have FPP criteria differentials and this may have caused delay to their passage times. This delay may increase their risk to pinniped predation. Pinniped abundance on 28 Feb day was 2 animals. With most of the outage occurring at nighttime, when sea lions are typically hauled out on Tower Island, this impact is expected to be low. It is important to note that all PH1 and Spillway fishway entrances had proper differentials maintained at all entrances. Using FPC.org queries, a total of 52 adult steelhead passed Bonneville on 28 February 2022.

This PH2 outage does not coincide with any significant juvenile passage periods so the impacts were expected to be minimal. Any downstream migrants that did approach the PH2 forebay with no running units may have experienced delayed passage times to downstream fishway entrances. However, the Corner Collector, Downstream Migrant Channel, Ice and Trash Sluiceway, and Spillway were all available for downstream passage during the outage.

Sincerely,
Bonneville Project Fisheries

Comments from others

-----Original Message-----

From: Bettin, Scott W (BPA) - EWP-4 <swbettin@bpa.gov>

Sent: Friday, March 04, 2022 7:19 AM

To: Mackey, Tammy M CIV USARMY CENWP (USA) <Tammy.M.Mackey@usace.army.mil>

Subject: [Non-DoD Source] RE: FPOM: Official Coordination - MFRs 22BON001 - 22BON003

I wonder why they didn't transfer the clearance or call the clearance holder back in when line 3 repairs were done? That was an expensive night off for us! -s