

MEMORANDUM FOR THE RECORD

SUBJECT: 24JDA09 MU-1 Taken Offline to Disconnect MU-3 Breaker

On 8 August 2024, from 15:54 – 16:07 (13-minutes), main unit (MU) 1 was taken offline in order to disconnect the MU-3 breaker (XJ3) for a megger/stater inspection. New Arc Flash ratings at the John Day project (JDA) requires safer gear ratings, for the operation, than are currently on-hand. The gear is being ordered, but without the proper gear, the entire line has to be discharged before MU breakers are disconnected. At JDA MU-1, MU-2, MU-3, and MU-4 are all connected to line-1 and had to be taken offline.

The FPP states:

4.1.1. Turbine units will be operated in the order of priority defined in **Table JDA-6**, including time during synchronous condensing. If a unit is out of service for maintenance or repair, the next unit in the priority order shall be operated. Unit priority order may be coordinated differently for fish research, construction, or project maintenance.

Table JDA-6. John Day Dam Turbine Unit Priority Order.

Season	Unit Priority Order*
March 1 – November 30 Fish Passage Season	With TSWs: 5, 1, 3, 16, 14, 12, 10, 8, 15, 2, 11, 7, 4, 13, 9, 6 No TSWs: 1–4 any order, then 5–16 any order

MU-5, 8, 9, 11, 13, 15, and 16 were running during the outage (MU-1 – 4 were offline for the line discharge). Typically, MU-12 would run in place of MU-11, but MU-11 was already condensing. So rather than taking all the necessary steps to bring MU-12 online, it saved time to switch MU-11 into generation mode. This ultimately saved time in the total outage for MUs 1-4.

- A. Species – With MUs 1-4 offline attraction flows to the south fish ladder (SFL) have been reduced. This MAY cause straying in adult fish. The following shows the fish counts and ladder usage at JDA for 8/1/24 – 8/7/24.

Chinook				Steelhead				Sockeye				Lamprey			
SFL		NFL		SFL		NFL		SFL		NFL		SFL		NFL	
Pct	#	Pct	#	Pct	#	Pct	#	Pct	#	Pct	#	Pct	#	Pct	#
31.9%	87	68.1%	184	44.1%	119	55.9%	151	71.3%	71	28.7%	29	65.1%	42	34.9%	23

- B. Origin – Unknown
- C. Length – Unknown
- D. Marks and tags – Unknown

- E. Marks and Injuries found on carcass –NA
- F. Cause and Time of Death – NA
- G. Future and Preventative Measures- Order the new Arc Flash gear required for discharging MU breakers.

Sincerely,

Project Fisheries