

**MEMORANDUM FOR THE RECORD****SUBJECT: 19BON63 Powerhouse priority shift and DSM release for LFS ROV inspection**

On 31 October, District Dive Team and Project Fisheries conducted an ROV inspection of the Lamprey Flume System (LFS) from the dive vessel Osprey in the PH2 tailwater. In order to conduct the work safely, unit priority was shifted to PH1 (units 14-18), while units 11-13 remained running at PH2. The underwater discharge in the north tailwater was reduced by temporarily releasing all water from the DSM through the ERG. The North Upstream Entrance Gate was already raised out of the water for single fish units ops due to FU1 being taken OOS. Unit priority switching began around 0800, and was fully returned to normal PH2 priority by noon. The ERG was tripped 0924 and the DSM returned to operation at 11:30. The NUE stayed closed for single fish unit ops. The dive vessel was in the BRZ for approximately 30 min and completed its inspection.

The ROV inspection found only the one hatch missing; all other hatches were in place. The hatch that needs repair appears to have a broken hinge. The project can use the imagery from the ROV to help with a permanent solution.

Fish passage is very low at Bonneville, with 19 adult Chinook and 18 Steelhead passing the Washington Shore Count Station on 10/30. During the shift, a higher proportion of fish may have been attracted to the Bradford Island ladder. With no spill, an increase in fall backs is not an issue. Juvenile salmonid passage is also very low, with the SMF ending sampling for the season and going into bypass mode at 0700 on 10/31.

Sincerely,  
Project Fisheries