

**MEMORANDUM FOR THE RECORD: 24 LGS 11: Adult Fishway Auxiliary Water Pump #2****SUBJECT: Lost Mechanical Seal to Auxiliary Water Fish Pump #2, Interruption in Service**Background

The Little Goose (LGS) Mechanical Crew forced a shutdown of the adult fishway auxiliary water pump (AWP) #2 at 07:14 hours due to a failed mechanical seal. Emergency repairs discovered the thrust collar had loosened allowing the shaft to migrate resulting in a warped brake that rubbed against and fouled the seal.

AWP #1 and #3 were subsequently increased in capacity, while the adult fishway was evaluated for operational criteria. Several fish entrance weir adjustments ensued both at the South Shore and North Shore locations, and AWP #1 and #3 subsequently re-adjusted to maximum capacity.

The fishway was allowed to equilibrate and was again evaluated. Additional weir adjustments to the North Shore entrance followed and achieved operational criteria by 17:00 hours.

LGS Mechanical Crew anticipates removal, straightening, and re-truing of the brake rotor and associated components by late tomorrow, September 11, 2024. Plans are to immediately return the unit to service, order and schedule new parts for installation during the upcoming winter maintenance season.

- A. Species – Chinook salmon *Oncorhynchus tshawytscha*, Steelhead *O. mykiss*, Sockeye salmon *O. nerka*, Pacific lamprey *Entosphenus tridentatus*, and potentially Coho salmon *O. kisutch*.
- B. Origin – Hatchery, Wild
- C. Length – N/A
- D. Marks and tags – N/A
- E. Marks and Injuries found on carcass – N/A
- F. Cause and Time of Death – N/A
- G. Future and Preventative Measures – N/A
- H. Regional coordination and responses/comments –
- I. Next FPOM meeting (add to agenda for review) -

Sincerely,  
Deborah L. Snyder  
Project Fisheries Biologist  
Little Goose Lock and Dam  
(509) 404-3263