

MEMORANDUM FOR THE RECORD

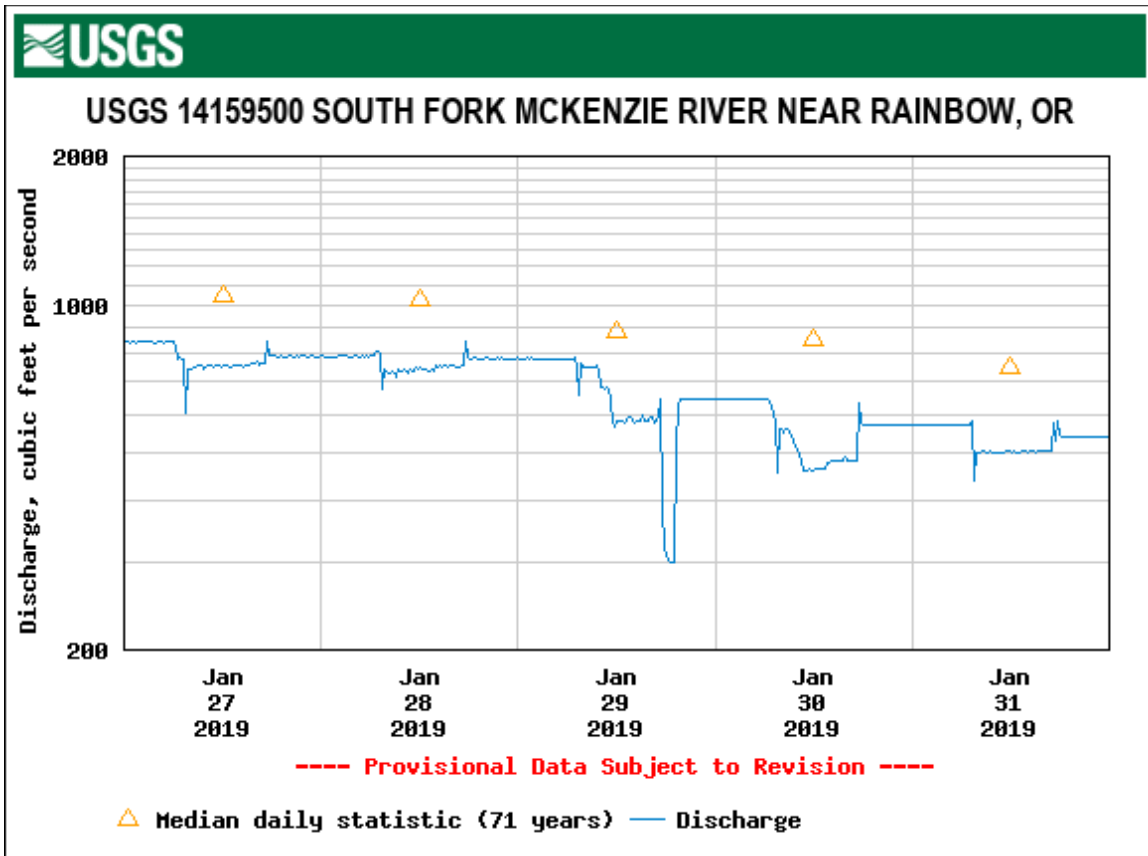
COORDINATION TITLE - 19CGR01 MFR Ramp Rate Minimum Flow

NOTIFICATION DATE - 05 February 2019

PROJECT - Cougar Dam

RESPONSE DATE - 19 February 2019

Description of the problem - On 29 January there was an error while transitioning unit flow (both units) at Cougar Dam to regulating outlet (RO) flow for fish passage operations. Instead of a target flow around 580 cfs, it decreased to about 260 cfs resulting in a ramp rate deviation (-0.51 feet/hour) and a flow (277 cfs) deviation below minimums detailed in the Biological Opinion (BiOp).



Dates of impacts/repairs - January 29 (1700-2000)

Length of impacts/repairs - approximately 3 hours

Expected impacts on fish - A purpose of BiOp minimum flow and ramp rate criteria during winter are to protect existing redds and fry downstream. There may have been

increased downstream passage mortality due to a smaller RO gate openings during the fish passage operation.

Comments from agencies - No comments

Please email or call with questions or concerns.

Thank you,

Chris Walker

NWP Operations Division Fishery Section

Willamette Fish Operations Biologist

503.808.4316

Christopher.E.Walker@usace.army.mil