

MEMORANDUM FOR THE RECORD

**TITLE** – 16CGR04 Cougar Powerhouse Outage Oil Water Separator Construction

**DATE** – 19 October 2016

**PROJECT** – Cougar Dam

**RESPONSE DATE** – 02 November 2016

**Description of the problem**

On October 17, 2016, both turbine units were taken offline for construction of an oil/water separator. While units are offline flow will be routed through a regulating outlet (RO) and/or the diversion tunnel. Higher levels of water routed through the RO can increase levels of total dissolved gas (TDG) and can impact salmonids.

**Type of change/outage required**

Turbine unit outage (both units)

**Impact on facility operation**

Power will not be generated for transmission until installation is complete.

**Dates of impacts/repairs**

October 17-December 16, 2016 (expected return to service)

**Length of time for impacts/repairs**

Approximately two months

**Expected impacts on fish**

Higher levels of water routed through the RO can increase levels of TDG and can impact salmonids. The level of impact will depend on flow levels. Impacts to spring Chinook salmon eggs/embryos incubating in redds will be minimal as this life stage is fairly resistant to TDG impacts. However, there could be impacts to hatching and emerging fry in December for spring Chinook salmon that spawned in early September.

**Comments from agencies**

No comments were received

Please email or call with questions or concerns.

Thank you,

Chris Walker

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