

MEMORANDUM FOR THE RECORD

**TITLE** - 16BLU03 Ramp Rate  
**DATE** - 22 March 2016  
**PROJECT**- Blue River Dam  
**RESPONSE DATE** - 30 March 2016

**Description of the problem**

A ramp rate of -0.21 ft per hour was observed on 15 March, 2016 between 00:00 and 01:00 below Blue River Dam. The criterion for down-ramping at night detailed in the Biological Opinion for the Operation of Willamette Valley projects is -0.1 feet per hour, thus, the ramp rate deviated from criteria about an inch during a flow decrease made at the dam (Total Stage Change  $\approx$  -2.5 inches).

**Dates of impacts**

15 March, 2016

**Expected impacts on fish**

Ramp rate criteria are primarily designed to prevent fish stranding (usually fry).

**Comments from agencies**

No comments

Please email or call with questions or concerns.  
Thank you,

Chris Walker  
NWP Operations Division Fishery Section  
503.808.4316  
[Christopher.E.Walker@usace.army.mil](mailto:Christopher.E.Walker@usace.army.mil)