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## Northwest **Power** and **Conservation** Council

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Washington

March 4, 2014

### MEMORANDUM

**TO:** Fish and Wildlife Committee Members

**FROM:** Lynn Palensky

**SUBJECT: Presentation on the Fish Screening Oversight Committee - moving forward**

Representatives from the Fish Screening Oversight Committee (FSOC) will be here to present to the Fish and Wildlife Committee on the history and importance of the FSOC in the program and region, as well moving forward in FY 2015 and beyond.

## **Fish Screen Oversight Committee**

**Bryan Nordlund, Chair**

NMFS – Lacey, WA

March 11, 2014

### **Active FSOC Members**

- Umatilla Tribe
- U.S. Fish and Wildlife Service
- Montana Fish Wildlife and Parks
- Oregon Department of Fish and Wildlife
- National Marine Fisheries Service
- Washington Department of Fish and Wildlife
- Idaho Department of Fish and Game
- Bonneville Power Administration
- Columbia Basin Fish and Wildlife Authority

### **Original FSOC Goals (Early 1990's):**

- Develop biologically based screen/bypass design criteria for salmonids.
- Assist USBR in developing designs for Phase I fish screens.
- Prioritize projects for Mitchell Act and BPA funds.

### **Current functions of FSOC**

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- Assists NMFS in updating regional screen design criteria to maintain optimal screen designs.

### **Current functions of FSOC**

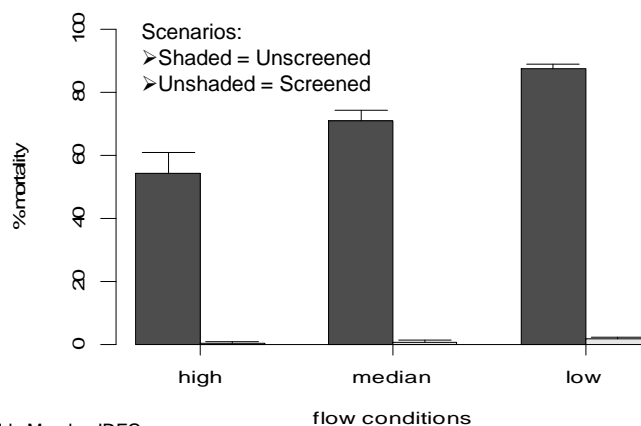
- Provide training for fish screen and other fishway designs (even years).
- Provide screen inspection, operations, methods and maintenance workshop (odd years).
- Evaluate new screen technology.
- Assists NMFS in updating regional screen design criteria to maintain optimal screen designs.
- Considering screen designs for lamprey, smelt and other species.

## Benefits provided by FSOC

- “The benefit of FSOC to Montana simply is that it provides educational and networking opportunities from folks who have way more experience in fish screens and passage than we do.” – Mark Lere
- “FSOC is critical in applying a consistent and appropriate protection standard across the Pacific Northwest. It also provides a dedicated venue for problem solving on fish screen challenges among the groups with expertise and authority over fish screening.” – Pete Baki, ODFW
- “FSOC provides a forum for WDFW to share ideas, understand regulations, communicate technical concepts, and promote fish screening and passage on a regional scale.” – Danny Didricksen, WDFW
- “Predictable performance with predictable biological effects” - Paddy Murphy, IDFG
- “NMFS benefits from FSOC consolidation of state and federal screen design criteria, allowing fast-track programmatic ESA consultation and quicker installation of screen and bypass systems.” – Bryan Nordlund, NMFS

## Benefit - Properly designed & operated screens

- Under median flow conditions, 71% of migrating smolts would be entrained through at least one of the 48 lower diversions on the Lemhi River.
- Under low flow conditions, entrainment rates increased to over 88% of spring outmigrating smolts.
- Under high flow conditions, entrainment rates decreased to 54%.



Slide provided by Paddy Murphy, IDFG



*Northwest Fisheries Science Center*

Transactions of the American Fisheries Society  
Volume 141, Issue 5, 2012

**Quantifying Cumulative Entrainment Effects for Chinook  
Salmon in a Heavily Irrigated Watershed**

Annika W. Walters<sup>1,2</sup>, Damon M. Holzer<sup>2</sup>, James R. Faulkner<sup>2</sup>, Charles D. Warren<sup>3</sup>, Patrick D. Murphy<sup>3</sup>, Michelle M. McClure<sup>2</sup>

<sup>1</sup>Corresponding author

<sup>2</sup>National Marine Fisheries Service, Northwest Fisheries Science Center, Seattle WA 98112, USA

<sup>3</sup>Idaho Department of Fish and Game, Anadromous Fish Screen Program, Salmon ID 83467, USA

Slide provided by Paddy Murphy, IDFG

**Post 2014 funding:  
Good value for small investment**

- BPA has agreed to fund FSOC through 2014.
- Annual cost expected to be low - around \$15,000.
- Request NPCC to continue support the Nov 8 Council recommendation to Bonneville:
  - BPA continue to support FSOC by providing out-year funding for continuing facilitation, administration and operations of FSOC, and annual training and workshops conducted by FSOC.

