

# FSOC Fish Passage Training Outline – Draft II

September 17-21, 2012

## **Monday, September 17**

Travel day

2:00 PM – 5:00 PM (Monday)

Session 1: Course Introduction (Bryan Nordlund, Allan Ritchie)

Topics: Objectives of Passage Instruction - Safe, Timely and Efficient Fish Passage  
Take home introductory message  
Field Trip Briefing  
Course Logistics  
Evening Social (Ritchie?)

## **Tuesday, September 18**

7:30 AM – 5:00 PM (Tuesday)

Session 2: Field Trip (ODFW Staff)

Sites: East Fork ID Coanda Screen  
Horizontal Screen  
Lamprey Research Lab  
Moving Falls

Bag lunch provided (Ward?)

## **Wednesday, September 19**

8:00 AM – 9 AM

Session 3: Resolving Fishway Operational Problems (Ray Gilmore , IDFG?, ODFW?)

Topics?:

9:00 AM – 10:00 AM

Session 4: Resolving Site Issues in Screen and Bypass Systems (Bryan Nordlund)

Topics: Sediment management  
Unbalanced Approach Velocity  
Low Flow Operations – Bypass and Instream

Break (snacks and beverage provided - Ward?)

10:20 PM – 12:00 PM

Session 5: Introduction to Upstream Fish Passage Systems (Ken Lofflink ?)

Topics: Design Approach – Pass the right fish at the right time  
Design data requirements  
Design Species, Life Stage  
FSOC Method  
Project Assessment (choosing the right passage structure)  
Procedures – fishway design flows  
Criteria overview and Project Review  
Monitoring and O&M

Lunch – on your own or should FSOC provide?

1:00 PM – 2:20 PM

Session 6: Lamprey passage (Mary Moser or Matt Mesa?)

Topics:

2:40 PM – 5:00 PM

Session 7: Upstream Fish Passage Systems (Mike Love?)

Topics:           Types of Passage Structures  
                      Culverts  
                      Roughened Channels  
                      Stream Simulation  
                      Cross-stream Weirs

### **Thursday, September 20**

8 AM to 5 PM – should I allow more time for Moser/Mesa or Love?) or

Session 8: Juvenile Fish Screen and Bypass Systems (Nordlund and ??)

Topics:           Purpose of screening  
                      History of fish screening  
                      Guiding principles forming foundation of screening criteria  
                      Fish biology and behavior as applied to screening  
                      Screen types (descriptions, criteria, benefits, disadvantages and appropriate uses)  
                      Screen Design (hydraulics, materials, cleaning systems)  
                      Bypass Design  
                      Monitoring, evaluations and O&M

Lunch – on your own or should FSOC provide?

### **Friday, September 21**

Travel day

Fall Chinook - Upriver Bright sampling (participation limited – can probably line up three boats)