

## **Fish Passage Plan (FPP) Change Request Form**

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**Change Form # & Title:** 15AppG001 – BON AFF Picket Lead Operation  
**Date Submitted:** November 13, 2014  
**Project:** BON  
**Requester Name, Agency:** BON Fisheries  
**Final Action:** APPROVED as revised – [January 22, 2015](#)

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**FPP Section:** Appendix G BON Sections 1.3 and 1.4.

**Justification for Changes:** This change is based on ladder conditions of August/September 2013 and 2014. High fish numbers and high water temps may have led to large numbers of fish congregating in the bend below Weir 37. Having all 4 leads down created a back up of fish. The ½ hour with 2 leads up did not allow enough time for fish to move through the area and thin out.

When water temperatures are above 70°F, it is even more important to allow fish to move through the fishway with as few impediments as possible.

### **Proposed Changes:**

#### **1.3. Trapping Protocols - Fish Ladder Water Temperatures <70°F**

**1.3.9.** Four picket leads will be allowed during trap operations for up to 4 hours. After all picketed leads are raised, fish already in the AFF can be sampled for an additional 1 hour. The picketed lead operations are as follows: *\*All counts are of adult salmonids (including jacks) as enumerated the previous day at the Washington Shore count station, and assumes 4 shad = 1 salmonid (e.g., 6,000 salmonids + 4,000 shad = 7,000 total).*

(a) **0–6,000:** All 4 picket leads can be lowered for 4 continuous hours.

(b) **6,000–12,000:** All 4 picket leads down for 3 hours. At the 3<sup>rd</sup> hour, raise at least 1 picket lead for ½ hour, and then continue sampling for additional 1 hour.

(c) **12,000–~~25,000~~18:** All 4 picket leads down for 2 hours. At the 2<sup>nd</sup> hour, raise at least 2 picket leads for ½ hour, and then continue sampling for an additional 2 hours.

(d) **~~>25,000~~18–35,000:** ~~All four~~ **Two** picket leads down for ~~four~~ **1** hours. ~~At the end of the 1 hour raise at least 2 picket leads for ½ hour, and then continue sampling for 1 hour and raise 2 picket leads for ½ hour. Continue until 4 hours of operations with 4 picket leads down has been achieved.~~

(e) **> 35,000:** **No picket leads down.**

**1.3.10.** Researchers will also be required to monitor the ladder every hour to ensure that crowding is not taking place. If evidence of crowding is occurring at least two picket leads will be raised. ~~for a minimum 1/2 hour before all four picket lead may be deployed again.~~

## 1.4. Trapping Protocols - Fish Ladder Water Temperatures $\geq 70^{\circ}\text{F}$

1.4.4. Project Fisheries will notify FPOM as soon as Weir 37 consistently violates FPP criteria.

1.4.5. The density criteria for picket lead operations will be ~~altered~~reduced by half and the operations will be as follows. The density criteria and adult ladder monitoring outlined in 1.3.9 above also apply. *\*All counts are of adult salmonids (including jacks) as enumerated the previous day at the Washington Shore count station, and assumes 4 shad = 1 salmonid (e.g., 6,000 salmonids + 4,000 shad = 7,000 total).*

(a) **0–3,000:** All 4 picket leads can be lowered for 4 continuous hours.

(b) **3,000–6,000:** All 4 picket leads down for 3 hours. At the 3<sup>rd</sup> hour, raise at least 1 picket lead for ½ hour and then continue sampling for an additional 1 hour.

(c) **6,000–9,000:** All 4 picket leads down for 2 hours. At the 2<sup>nd</sup> hour, raise at least 1 picket lead for ½ hour and then continue sampling for an additional 2 hours.

~~(d) **9,000–18,000:** Two leads down for four hours. All four picket leads down for one hour, at the end of the hour raise at least 2 picket lead for ½ hour and then continue sampling for one hour and raise 2 picket lead for ½ hour. Continue until four hours of four picket lead operation has been achieved and~~ All picket leads need to be raised by 10:30 am.

(e) > 18,000: No picket leads down.

### Comments:

16-Jan-2015 NOAA memo: “No objections to the changes in section 1.3. (<70 degrees). However, the change in section 1.4.5. would allow four picket operation for several days a year longer during the highest water temperatures (August) than the current language. There is no justification offered for this and we do not agree with the change without further discussion. At this time we would suggest that sections 1.4.5. (a-c) remain unchanged. Section 1.4.5. (d) would read >9,000-18,000 and we agree with adding the new section (e) for counts greater than 18,000.”

22-Jan-2015 FPOM: NOAA is fine with changes when temperatures are less than 70°F (section 1.3.9) but did not like the proposal to double the fish density criteria at temperatures above 70°F (section 1.4.5). Changes to 1.4.5.a-c were rejected. Whiteaker and Lorz were in agreement with 1.4.5.d-e. Changes include: modifying/adding 1.3.9.c-e and 1.4.5.d-e.

### Record of Final Action:

22-Jan-2015 FPOM: APPROVED as revised.