Enhancement of Species Permit for Collection and Transport of Spring-Run Chinook Salmon for the SJRRP

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Fisheries Technical Feed Back Group Meeting
November 2, 2012
Team Work
F. Penalties and Permit Sanctions

1. Any person who violates any provision of this permit is subject to civil and criminal penalties, permit sanctions, and forfeitures as authorized under the ESA and 15 CFR part 904.

2. All permits are subject to suspension, revocation, and denial in accordance with the provisions of subpart D [Permit Sanctions and Denials] of 15 CFR part 904.

   [Signatures and dates]

[Signatures and dates]

Rodney R. McIntire
Regional Administrator
Southwest Region
National Marine Fisheries Service

Robert Clark
Assistant Regional Director
U.S. Fish and Wildlife Service
Initial 10(a)(1)(A) Permit Application

- September 30, 2010
- Original application proposed multi-stock approach
- Collections from donor streams (Mill, Deer, Butte)
- Annual process for proposing collection
  - Decision matrix (avoiding impacts)
  - Criteria based on Lindley et al. 2007
  - Annual run size
  - Abundance trajectory
• Feedback on permit application
  • Concerns over impact to donor streams
    • Public comments / agency discussions
  • What about direct translocation, what about the 10(j)?
Final 10(a)1(A) Application Overview

- On December 27, 2011 the final version of the 10(a)1(A) application was submitted to NMFS.

- This permit application was envisioned as the first step in an multi step process
  - Other applications or amendments may be developed in the future, as warranted.
Key Provisions of the Final Application
Donor Stock

– All stock will come from the Feather River Fish Hatchery.

– Collected stock will be surplus to Feather River Fish Hatchery operations.

– A minimum of 50 crosses will be selected throughout the spawning season to maximize genetic diversity.
Additional Proposed Permitted Activities

- Take of surplus Feather River Hatchery eggs and juvenile spring-run Chinook salmon
- Holding and rearing facilities in a salmon conservation hatchery facility
- Holding and rearing in incubators or holding pens that would be placed in or adjacent to the San Joaquin River

The proposed action does not include activities that would release spring-run Chinook salmon to the river.
Occurred in May 2012

What about translocation?

What about the net pens?

What about the 10(j)?
And now......The permit
### Allowed Take

<table>
<thead>
<tr>
<th>SPECIES</th>
<th>LIFESTAGE</th>
<th>TOTAL EXPECTED TAKE</th>
<th>UNINTENTIONAL LETHAL TAKE</th>
<th>PERMITTED ACTION</th>
<th>CAPTURE METHOD</th>
<th>PROCEDURES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Central Valley spring-run Chinook Salmon (Feather River Hatchery)</td>
<td>Juvenile</td>
<td>60</td>
<td>0</td>
<td>Intentional (Directed) Mortality</td>
<td>Hand and/or Dip Net</td>
<td>Pathology Testing for Broodstock health assessment. Prior to transfer to the Interim or SCARF.</td>
</tr>
<tr>
<td>Central Valley spring-run Chinook Salmon (Feather River Hatchery)</td>
<td>Egg</td>
<td>2760**</td>
<td>2000*</td>
<td>Collect and Transport live animal</td>
<td>Hand and/or Dip Net</td>
<td>Anesthetize; Tag, Coded-Wire, PIT, VI</td>
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</tr>
</tbody>
</table>

* Indirect Mortality total in this table reflects the total mortality of egg to adult or juvenile to adult. This includes, collection, transportation, pathology, and natural mortality of fingerling to adult survival rates.

**560 FRFH spring-run Chinook salmon eggs and juveniles during the first three years of the permit annually – and 2,760 eggs or juveniles in the fourth and fifth years.
Reporting Requirements

*Monthly Report(s):* Reports shall be submitted monthly when fish are transported and/or reared in the Quarantine, Interim and Conservation facilities.

*Annual Report(s):* The authorization of this permit is contingent upon receipt of annual reports.
Selection of Broodstock

• Individuals will be randomly selected from preferred crosses/trays for broodstock. Preferred crosses for the SJRRP will be guided by the following criteria:

  • Disease Status
    • Infectious Hematopoietic Necrosis Virus (IHNV) and Bacterial Kidney Disease (BKD).
  
  • Genetic Variability
    • The collections accurately represent the genetic diversity of the donor population.
  
  • Run Timing
    • Preferably two-generations of spring-run phenotype
  
  • Age of Maturing
    • Two year old males and females (based on length data) will comprise less than 5 percent of the parental crosses.
SCARF Program will institute natural rearing techniques. The methods to be employed include the following:

- More natural structures in holding areas.
- Bottom Orientation
- Exercise
Tagging Requirements

• All individual broodstock reared at the SCARF will be tagged using PIT tags and Visual Implant (VI) tags after reaching a minimum length of 55 millimeters (mm).

• Prior to spawning, adult fish will be tagged intra-muscularly with Petersen disc tags for easy visual identification.

• All hatchery juveniles produced in Interim Facility or SCARF will be adipose fin clipped and CWT.
Contingency Plans

- The Interim Facility and SCARF will be integrated into the Emergency Action Plan of San Joaquin River Fish Hatchery and the Friant Fishwater Release Hydroelectric Project (FERC Project No 11068-CA).
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- The Interim Facility and SCARF will be designed to minimize unintended releases to the San Joaquin River during flood events by installing screens on tanks. In the event that an emergency release is necessary due to flooding or other reason, fish will be loaded into fish transport tanks, transported to the river at an appropriate location and released according to State and Federal rules and requirements.
If a 10(j) experimental population is not designated by the time of the termination of this permit, FWS must work with NMFS to develop a suitable plan for the disposition of the fish rearing and being held at the Interim Facility or SCARF.
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Consistent with the requirements of the Settlement Act, spring-run Chinook salmon will not be released into the San Joaquin River until and the fish are designated as an experimental population under section 10(j) of the ESA.
10(a)(1)(A)

Collection Location

Quarantine Facility

Conservation Facility

In-river net pen

RELEASE

10(j)

4(d)

San Joaquin River
NO RELEASE
Requests for Final EA and/or Biological Opinion can be made by mail, fax, or electronic mail to:

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Fisheries Biologist  
Central Valley Office  
National Oceanic and Atmospheric Administration  
650 Capitol Ave. Suite 5-100  
Sacramento, CA 95814  
Telephone number: (916) 930-3723  
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Email address: elif.fehm-sullivan@noaa.gov  
When available:  
http://swr.nmfs.noaa.gov/sjrrestorationprogram/salmonreintroduction.htm  
or http://swr.nmfs.noaa.gov/nepa.htm
Questions?