

Categorical Exclusion Determination

Bonneville Power Administration

Department of Energy



Proposed Action: Continued funding to Pacific States Marine Fisheries Commission for ongoing Comparative Survival Study

Project No.: 1996-020-00

Project Manager: Tracy Hauser

Location: Columbia and Snake rivers and their tributaries in Idaho, Oregon, and Washington

Categorical Exclusion Applied (from Subpart D, 10 C.F.R. Part 1021): B3.3 - Research related to conservation of fish and wildlife

Description of the Proposed Action: BPA proposes to continue funding the Pacific States Marine Fisheries Commission (PSMFC) for ongoing work on the Comparative Survival Study (CSS) in the Columbia River Basin. The CSS is a management-oriented, large scale, life-cycle monitoring study of spring/summer/fall Chinook, steelhead, and sockeye, utilizing Passive Integrated Transponder (PIT) tags.

The CSS was designed to address several basin-wide monitoring needs and to provide demographic and other data for Snake River and Columbia River wild and hatchery salmon and steelhead populations. These activities assist in determining survival through the Federal Columbia River Power System (FCRPS) and enable biologists to monitor population trends over time. These activities are requirements in the Biological Opinion for operation of the FCRPS as supplemented in 2010 and 2014. Estimation of the overall, aggregate smolt-to-adult returns (SARs) of fish that are transported and those that migrate entirely in-river is key to evaluation of avoidance of jeopardy (i.e., put at risk of extinction) as well as progress toward recovery goals. Monitoring survival probability over the entire life-cycle can help identify where survival bottlenecks are occurring, which is critical input for informed management decisions (Good et al. 2007). The CSS also examines environmental factors associated with life-cycle survival probability and evaluates the hypothesized mechanisms for variations in those probabilities.

While the majority of fish tagged are of hatchery-origin, an overall goal of CSS is to emphasize marking wild fish and to mark wild populations as representatively as possible. Wild and hatchery smolts are marked with glass-encapsulated PIT tags that are 11-12 mm in length and have a unique code to identify individual fish. These PIT tags are implanted into the fish's body cavity using a hand-held syringe, and they are generally retained and function throughout the life of the fish.

Marking operations to support the CSS are carried out across the Columbia River Basin, at existing hatchery facilities and field sites, with support from the Idaho Department of Fish and Game (IDFG), Washington Department of Fish and Wildlife (WDFW), Oregon Department of Fish and Wildlife (ODFW), the Confederated Tribes of the Umatilla Indian Reservation (CTUIR), and the Nez Perce Tribe (NPT).

Below is the breakdown of each respective support organization.

The IDFG will mark natural-origin and hatchery-origin salmon and steelhead in multiple river basins in Idaho. These include:

- 185,900 hatchery-origin steelhead, Chinook, and sockeye
- 52,200 natural-origin steelhead and Chinook

The WDFW will mark natural-origin and hatchery-origin salmon and steelhead in multiple river basins in Washington. These include:

- 32,000 hatchery-origin steelhead and Chinook
- 1,500 natural-origin steelhead

The ODFW will mark natural-origin and hatchery-origin salmon and steelhead in multiple river basins in Oregon. These include:

- 56,000 hatchery-origin steelhead and Chinook
- 3,600 natural-origin Chinook

The CTUIR will mark natural-origin steelhead and Chinook:

- 2,400 natural-origin steelhead and Chinook

The NPT will mark hatchery-origin steelhead and Chinook:

- 63,150 hatchery-origin Chinook

Findings: In accordance with Section 1021.410(b) of the Department of Energy's (DOE) National Environmental Policy Act (NEPA) Regulations (57 FR 15144, Apr. 24, 1992, as amended at 61 FR 36221-36243, July 9, 1996; 61 FR 64608, Dec. 6, 1996, 76 FR 63764, Nov. 14, 2011), BPA has determined that the proposed action:

- (1) fits within a class of actions listed in Appendix B of 10 CFR 1021, Subpart D (see attached Environmental Checklist);
- (2) does not present any extraordinary circumstances that may affect the significance of the environmental effects of the proposal; and
- (3) has not been segmented to meet the definition of a categorical exclusion.

Based on these determinations, BPA finds that the proposed action is categorically excluded from further NEPA review.

/s/ Gregory M. Smith

Gregory M. Smith
Environmental Protection Specialist

Concur:

/s/ Stacy L. Mason

Stacy L. Mason
NEPA Compliance Officer

Date: November 29, 2016

Attachment(s): Environmental Checklist

Categorical Exclusion Environmental Checklist

This checklist documents environmental considerations for the proposed project and explains why the project would not have the potential to cause significant impacts on environmentally sensitive resources and would meet other integral elements of the applied categorical exclusion.

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Project Site Description

All activities will occur at either existing hatchery facilities or field sites associated with tributaries to the Columbia and Snake rivers in Idaho, Oregon, and Washington.

Evaluation of Potential Impacts to Environmental Resources

Environmental Resource Impacts	No Potential for Significance	No Potential for Significance, with Conditions
1. Historic and Cultural Resources	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<u>Explanation:</u> There are no ground disturbing activities, thus the proposed activities do not have the potential to affect historic properties or cultural resources. All work will be carried out from within existing facilities or at mobile PIT tagging trailers.		
2. Geology and Soils	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<u>Explanation:</u> No ground disturbing activities proposed, thus the proposed activities do not have the potential to affect geology and soils. All work will be carried out from within existing facilities or at mobile PIT tagging trailers.		
3. Plants (including federal/state special-status species)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<u>Explanation:</u> No ground disturbing or vegetation removal activities proposed. All work will be carried out from within existing facilities or at mobile PIT tagging trailers.		
4. Wildlife (including federal/state special-status species and habitats)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<u>Explanation:</u> No ground disturbing or other activity that may affect wildlife or wildlife habitat is proposed. All work will be carried out from within existing facilities or at mobile PIT tagging trailers.		
5. Water Bodies, Floodplains, and Fish (including federal/state special-status species and ESUs)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<u>Explanation:</u> PIT tagging hatchery-origin and wild-origin anadromous salmonids is a common and wide-spread activity within the Columbia River basin; the majority of fish tagged are hatchery-origin fish. Because these activities are requirements in the Biological Opinion for operation of the FCRPS as supplemented in 2010 and 2014, the National Marine Fisheries Service annually issues a Determination of Take Memorandum describing the maximum number of individual ESA-listed fish may be tagged in a given year—the number of fish tagged in support of the Comparative Survival Study is well below that threshold. There will be no impact to adjacent waterbodies or floodplains because no ground disturbing activities are		

proposed. All work will be carried out from within existing facilities or at mobile PIT tagging trailers.

6. **Wetlands**



Explanation: No ground disturbing activities are proposed thus the action does not have the potential to impact wetlands. All work will be carried out from within existing facilities or at mobile PIT tagging trailers.

7. **Groundwater and Aquifers**



Explanation: No ground disturbing activities that may affect groundwater or aquifers are proposed. All work will be carried out from within existing facilities or at mobile PIT tagging trailers.

8. **Land Use and Specially Designated Areas**



Explanation: All work will be carried out from within existing facilities or at mobile PIT tagging trailers. Access to field sites is on existing road networks and all activities are compatible with local land use.

9. **Visual Quality**



Explanation: All work will be carried out from within existing facilities or at mobile PIT tagging trailers and has no effect to visual quality. The mobile PIT tag trailers will access field sites on existing roads and remain parked temporarily. Any change to the viewshed will be short-term and temporary.

10. **Air Quality**



Explanation: All work will be carried out from within existing facilities or at mobile PIT tagging trailers and will have no effect on air quality. Any increase in emissions from vehicles accessing field sites will be very minor and short term.

11. **Noise**



Explanation: All work will be carried out from within existing facilities or at mobile PIT tagging trailers and will not result in an increase in ambient noise at PIT tagging locations.

12. **Human Health and Safety**



Explanation: All work will be carried out from within existing facilities or at mobile PIT tagging trailers. Workers carrying out PIT tagging activities are trained in proper tagging techniques and this activity is not considered hazardous nor does it result in any health or safety risks to the general public.

Evaluation of Other Integral Elements

The proposed project would also meet conditions that are integral elements of the categorical exclusion. The project would not:

- Threaten a violation of applicable statutory, regulatory, or permit requirements for environment, safety, and health, or similar requirements of DOE or Executive Orders.

Explanation, if necessary:

- Require siting and construction or major expansion of waste storage, disposal, recovery, or treatment facilities (including incinerators) that are not otherwise categorically excluded.

Explanation, if necessary:

- Disturb hazardous substances, pollutants, contaminants, or CERCLA excluded petroleum and natural gas products that preexist in the environment such that there would be uncontrolled or unpermitted releases.

Explanation, if necessary:

- Involve genetically engineered organisms, synthetic biology, governmentally designated noxious weeds, or invasive species, unless the proposed activity would be contained or confined in a manner designed and operated to prevent unauthorized release into the environment and conducted in accordance with applicable requirements, such as those of the Department of Agriculture, the Environmental Protection Agency, and the National Institutes of Health.

Explanation, if necessary:

Landowner Notification, Involvement, or Coordination

Description: No notification – All work is at existing facilities or at mobile facilities accessed on existing roads on public lands.

Based on the foregoing, this proposed project does not have the potential to cause significant impacts to any environmentally sensitive resource.

Signed: /s/ Gregory M. Smith
Gregory M. Smith, ECF-4

Date: November 29, 2016