



## Department of Energy

Bonneville Power Administration  
P.O. Box 3621  
Portland, Oregon 97208-3621

July 20, 2021

Reply to Attn of: Israel Duran, ECF - 4

Subject: CX Determination – New Marking & Monitoring Technologies Project

To: Christine Petersen- EWP-4

Attached to this letter is BPA's CX Determination for the New Marking & Monitoring Technologies Project. Also included is the CX checklist that supports this determination.

The CX checklist identifies minimization measures required to help your project meet environmental laws or CX criteria.

Please be aware that if project changes are required that involve new locations to be disturbed not analyzed as part of the CX (such as new installations, access road widening, tree clearing, new structures, etc.), you need to immediately contact me, the EC environmental lead, at 503-230-3967 to determine if additional environmental review is required.

/s/ Israel Duran

Israel Duran  
Contract Environmental Protection Specialist  
Salient/CRGT

# Categorical Exclusion Determination

Bonneville Power Administration  
Department of Energy



**Proposed Action:** New Marking & Monitoring Technologies Project

**Project No.:** 1983-319-00

**Project Manager:** Christine Petersen- EWP-4

**Location:** Skamania and Kitsap counties, Washington

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

**Description of the Proposed Action:** Bonneville Power Administration proposes to provide funds to NOAA (National Oceanic and Atmospheric Administration) for the development and evaluation of antennas and adapted power systems to enable Passive Integrated Transponder (PIT) tag systems to work in many environments, from remote locations to mainstem dams. In addition to antenna development, NOAA has been crucial in designing and implementing subsystems for improving PIT monitoring installations. NOAA continues to test, evaluate, and collect users' input for improvements which can be implemented in the infrastructure and readers. These fish-tracking technologies are then used to assess the effectiveness of management actions and strategies for recovery of ESA-listed fish populations. Most of the work of developing, improving and evaluating PIT-tag systems used to detect migrating adult and juvenile salmonids and evaluating the program that uses PIT-tag codes to separate out targeted fish in the fish bypass facilities at hydropower dams is carried out in NOAA's Northwest Science Center. Additional work is centered on testing and evaluating the systems at the mainstem hydroelectric facilities once they have been installed. This project does not install or operate the PIT tag systems throughout the Columbia River Basin but would provide assistance to users as needed to trouble shoot detection issues. Installation of PIT tag antennas is completed by other agencies.

The actions covered under this CX include:

- 1) Continued performance evaluation of ogee-based antennas.
- 2) Collaborate with Pacific State Marine Fisheries Commission and Biomark to fine tune antenna tuning post-installation.
- 3) Basin PIT tag support (Provide on-call technical assistance to users throughout the basin, including but not limited to WDFW, ODFW, IDFG, USFW, USGS, and several other NGOs.)
- 4) Continued barge PIT tag detection development to boost detection in the tailrace of Bonneville Dam or other sites of interest.
- 5) Detection system development where regional management deems necessary (i.e., Drano Lake, mouth of Deschutes.)

6) Continued development of technologies for in-stream applications.

These actions would support conservation of ESA-listed species considered in the 2020 ESA consultations with National Marine Fisheries Service on the operations and maintenance of the Columbia River System, while also supporting ongoing efforts to mitigate for effects of the FCRPS on fish and wildlife in the mainstem Columbia River and its tributaries pursuant to the Pacific Northwest Electric Power Planning and Conservation Act of 1980 (Northwest Power Act) (16 U.S.C. (USC) 839 et seq.).

**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, Jul. 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/ Israel Duran

Israel Duran

Contract Environmental Protection Specialist

Salient/CRGT

Reviewed by:

/s/ Chad Hamel

Chad Hamel

Supervisory Environmental Protection Specialist

Concur:

/s/ Katey C. Grange

July 20, 2021

Katey C. Grange  
NEPA Compliance Officer

Date

Attachment(s): Environmental Checklist

BECC:

C. Petersen – EWP-4

I. Duran – EC-4

R. Guiao – LN-7

C. Hamel – EC-4

M. Connolly – LN-7

Official File – EC (EQ-15)

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# 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.

**Proposed Action:** New Marking & Monitoring Technologies

## **Project Site Description**

Development and evaluation of PIT-tag detection systems throughout Oregon, Washington, and Idaho.

## **Evaluation of Potential Impacts to Environmental Resources**

### **1. Historic and Cultural Resources**

Potential for Significance: No

Explanation: The proposed activities would occur within the confines of the existing structures, and would not require any ground-disturbing activities for the completion of this work. Ground disturbance or activities external to the existing structure are not planned. This project does not install new systems.

### **2. Geology and Soils**

Potential for Significance: No

Explanation: Any activities required for the completion of this work would be within the confines of existing facilities. Ground disturbance or activities external to the existing structure are not planned.

### **3. Plants (including Federal/state special-status species and habitats)**

Potential for Significance: No

Explanation: All work is within existing facilities; no habitat present. There are no anticipated impacts to any sensitive plant species, and none exist within the immediate area of impact.

### **4. Wildlife (including Federal/state special-status species and habitats)**

Potential for Significance: No

Explanation: All work is implemented within existing facilities; no habitat present. No sensitive (including Endangered Species Act-listed) wildlife species are impacted during data collection at the facilities and there would be no effect.

### **5. Water Bodies, Floodplains, and Fish (including Federal/state special-status species, ESUs, and habitats)**

Potential for Significance: No

Explanation: Work may be located near major bodies of water. However, all work would occur in the footprint of existing structures, and would not require any ground-disturbing activities for the completion of the work. No sensitive (including Endangered Species Act-listed) fish species are impacted during data collection at the facilities and there would be no effect.

## **6. Wetlands**

Potential for Significance: No

Explanation: All work would occur in the existing structures and wetlands would not be impacted.

## **7. Groundwater and Aquifers**

Potential for Significance: No

Explanation: All work would occur in the footprint of existing facilities, and no ground excavation is planned.

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

Potential for Significance: No

Explanation: All work would occur in the existing facilities footprints, and would not impact or change land use.

## **9. Visual Quality**

Potential for Significance: No

Explanation: All work would occur in existing facilities, and would not impact visual quality.

## **10. Air Quality**

Potential for Significance: No

Explanation: Data collection and evaluation of PIT-tag systems would not impact air quality.

## **11. Noise**

Potential for Significance: No

Explanation: All work would occur in existing structures, and operation of the system would not raise noise levels above background.

## **12. Human Health and Safety**

Potential for Significance: No

Explanation: All work would occur in the existing facilities, and safety regulations would be followed as necessary.

### **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: N/A

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

Explanation: N/A

**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: N/A

**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: N/A

### **Landowner Notification, Involvement, or Coordination**

Description: This work is in conjunction with facility operators at federally-owned property

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

Signed: /s/ Israel Duran July 20, 2021  
Israel Duran, ECF-4 Date  
Contract Environmental Protection Specialist  
Salient/CRGT