Categorical Exclusion Determination

Bonneville Power Administration
Department of Energy

Proposed Action: Ozone Water Treatment Shed Installation at Burley Creek Hatchery

Project No.: 2007-402-00

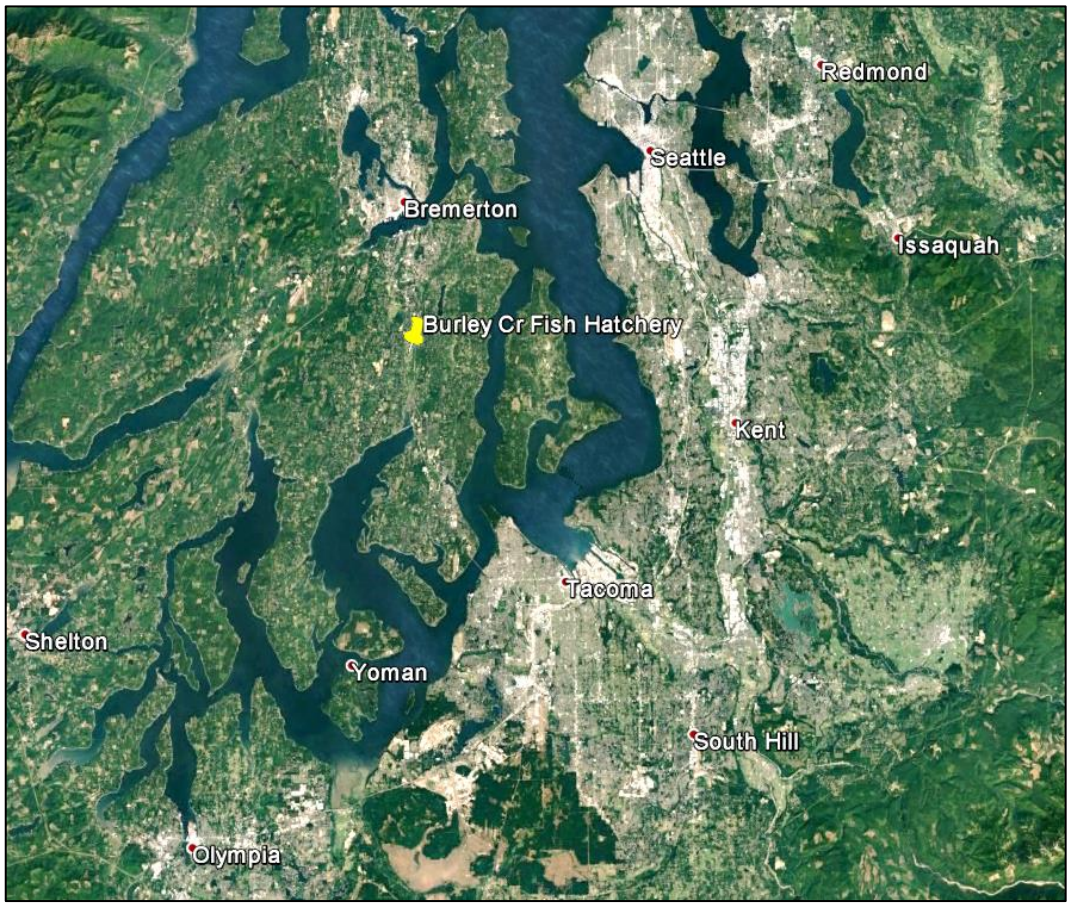
Project Manager: Jonathan McCloud, EWM-4

Location: Kitsap County, Washington

Categorical Exclusion Applied (from Subpart D, 10 C.F.R. Part 1021): B1.15 Support buildings

Description of the Proposed Action: Bonneville Power Administration (BPA) proposes to provide funding to the Northwest Fisheries Science Center (National Marine Fisheries Service) for installation of an ozone water treatment system for the pretreatment of hatchery effluent at Burley Creek Hatchery (BCH) near Port Orchard, WA (Figure 1).

Figure 1 Burley Creek Hatchery location



The BCH is a 5-acre fish culture research facility that consists of administrative and fish-rearing structures located at the western-most area of the site. Five water wells, a concrete settling basin, and an ultra-violet (UV) treatment vault are also located on the western half of the property. A detention pond is located within the central portion of the property. An earthen effluent drainage/treatment channel is located on the eastern portion of the site. The facility is used for freshwater final maturation of pre-spawning Snake River sockeye salmon adults, and the spawning, incubation, and fry-to-smolt rearing of sockeye salmon.

The ozone treatment system would be installed on an existing pipeline that carries effluent from a hatchery operations building to the concrete effluent settling ponds. The location is within the hatchery compound on an existing graveled parking/storage lot (Figure 2).

Figure 2 Location of ozone treatment system (approximate)

The system would be housed in a small (approximately 8' by 8') shed located approximately 30-40 feet from the hatchery building (Figure 3).

Figure 3 Location and scale of ozone treatment system shed (approximate)

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/ Robert Shull
Robert W. Shull
Contract Environmental Protection Specialist
FirstTekDOS, LLC

Reviewed by:

/s/ Chad J. Hamel
Chad Hamel
Supervisory Environmental Protection Specialist

Concur:

/s/ Stacy L. Mason Date: *January 18, 2018*
Stacy L. Mason
NEPA Compliance Officer

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.

Proposed Action: Ozone Water Treatment Shed Installation at Burley Creek Hatchery

Project Site Description

Activities will occur at the Burley Creek Hatchery near Port Orchard, Washington. This fish-culture facility has been in place since before 1990. Land use at the specific location of the ozone treatment system was modified around 2004 from agricultural uses to a parking/equipment storage area. The site currently supports a graveled pad used for vehicle ingress/egress and equipment storage. It is surrounded by hatchery infrastructure, all of which is enclosed by chain link fencing.

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**	☑	☐
Explanation: The ground-disturbing activities with this project will occur on and above an existing buried effluent pipeline. The site has been entirely disturbed in the past: it was a plowed agricultural field for decades; then a graveled equipment storage area, and then a pipeline trench/corridor. There is no potential for disturbing previously unknown cultural resources.		
2. **Geology and Soils**	☑	☐
Explanation: The site's soils have been entirely disturbed in the past: it was a plowed agricultural field for decades; then a graveled equipment storage area, and then a pipeline trench/corridor. There is no potential for disturbing previously undisturbed soils. The site is topographically flat and graveled, with no potential for erosion or off-site sediment delivery.		
3. **Plants** (including federal/state special-status species)	☑	☐
Explanation: The site is currently a graveled pad which supports no vegetation. No plants would be disturbed. The effects of the action are limited to the system's specific graveled location with no potential (sound, water flow, toxic emissions) for off-site effects.		
4. **Wildlife** (including federal/state special-status species and habitats)	☑	☐
Explanation: The site is currently a graveled pad in an area with a moderate to high amount of human activity (relative to wildlife disturbance thresholds). It supports no wildlife habitat. The effects of the action are limited to the system's specific graveled location with no potential (sound, water flow, toxic emmissions) for off-site effects to wildlife.		

5.	**Water Bodies, Floodplains, and Fish** (including federal/state special-status species and ESUs)	☑	☐

Explanation: The proposed system installation is not within or adjacent to any water body. Its potential for effect lies only in its treatment of effluent which would ultimately (after multiple stages of treatment) make its way into Burley Creek. The effects, however, are beneficial as the ozone treatement would remove potential pathogens and other contaminants from the hatchery's effluent prior to treatment in settling ponds and the effluent drainage channel.

6.	**Wetlands**	☑	☐

Explanation: There are no ground-disturbing activities within wetland areas. The site is currently a graveled pad, thus wetlands would not be affected.

7.	**Groundwater and Aquifers**	☑	☐

Explanation: The proposed installation of the ozone treatment system and the construction of its housing shed require no additional water uses, nor does it have any potential for accidental contaminated water discharge that does not already exist with the current effluent pipeline and treatment system.

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

Explanation: There would be no change in land use and no work in specially-designated areas.

9.	**Visual Quality**	☑	☐

Explanation: There would be no change to the existing visual character of the site. The existing visual character is light industrial, and would remain so after construction, with no visible increase in scale or scope of structures.

10.	**Air Quality**	☑	☐

Explanation: Construction activities would likely generate a small amount of dust during construction. This impact would be short-term and limited to the immediate construction site. There are no emissions-emitting equipment operations associated with operation of this ozone treatment device and thus no potential for long-term air quality impacts.

11.	**Noise**	☑	☐

Explanation: Construction activities would likely generate a small amount of noise during construction. This impact would be short-term and limited to the neart vicinity of the hatchery. There are no noise-emitting equipment operations associated with operation of this ozone treatment device and thus no potential for long-term noise impacts.

12.	**Human Health and Safety**	☑	☐

Explanation: There are no hatchery operational changes proposed, thus no potential for changing the risk environment for human health and safety.

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: The ozone treatment system might be considered a "treatment facility", but its very small scale (8'x8'x8') would not be considered "major" within the intent of this criteria.

☑ 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 landowner or neighbor engagement would be necessary. All activities would occur within the fenced perimeter of the existing facility and would be consistent in character with ongoing operations at this facility.

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

Signed: */s/ Robert Shull* Date: *January 18, 2018*

Robert W. Shull – ECF-4
Environmental Protection Specialist