

**NEPA REVIEW SCREENING FORM**  
**for Actions Included in CXs**

Document ID #:

DOE/CX-00071Rev5

**I. Project Title:**

Annual Categorical Exclusion for PNNL Projects involving Facility, Safety, and Environmental Improvement (B2.5).

**II. Describe the proposed action, including: location, time period over which proposed action will occur, project dimension (e.g., acres displaced/disturbed, excavation length/depth), area/location/number of buildings. Attach maps and drawings, as applicable. Describe existing environmental conditions and potential for environmental impacts from the proposed action. If the proposed action is not a project, describe the action or plan.**

Pacific Northwest National Laboratory (PNNL) and its contractors perform safety and environmental improvements of facilities (including but not limited to, replacement and upgrade of facility components) that do not result in a significant change in the expected useful life, design capacity, or function of the facility, and during which operations may be suspended and then resumed. Improvements include, but are not limited to, replacement/upgrade of control valves, in-core monitoring devices, facility air filtration systems, or substation transformers or capacitors; adding safety features such as railings, walkways or other safety-related features, safety-code features such addition of structural bracing to meet earthquake standards and/or sustain high wind loading; replacement of aboveground or belowground tanks and related piping, provided that there is no evidence of leakage, based on testing in accordance with applicable requirements (such as 40 CFR Part 265, "Interim Status Standards for Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal Facilities"; and 40 CFR Part 280, "Technical Standards and Corrective Action Requirements for Owners and Operators of Underground Storage Tanks"). These actions do not include rebuilding or modifying substantial portions of a facility (such as replacing a reactor vessel).

Prior to replacing or upgrading facility components, PNNL would isolate, disconnect, and remove utilities (power, communications, water, and sewer), and disconnect, pack and/or remove machinery and equipment or other items that are to be replaced and/or upgraded as needed. Buildings, structures, and equipment would be decontaminated as needed. Implementation may generate small quantities of excess materials, hazardous or radioactive wastes, PCBs, asbestos and other debris. Such materials would be recycled, re-used, or disposed of, as appropriate.

The proposed action would include reasonably foreseeable actions necessary to implement the proposed activities, such as minor excavations, establishment of temporary structures, equipment and material staging, waste management, equipment maintenance, office and furniture moves, and award of grants and contracts. Modification activities might involve minor noise levels; air emissions such as localized dust or fumes from construction equipment; or water effluents such as construction rinse water, dust suppression, or hydrotest water. In all instances, environmental impacts are expected to be small and temporary in nature, and would be controlled via implementation of standard best management practices and adherence to any applicable permits. These actions would not include rebuilding or modifying substantial portions of a facility. Additional NEPA review would be required for actions that result in a significant change in the expected useful life, design capacity, or function of a facility, or when widespread and persistent contamination would need to be removed to enable facility improvements or upgrades to proceed.

The buildings, structures, infrastructures, and equipment subject to this Annual CX include, but may not be limited to, those listed in Table 2 of the Operational Agreement between the Office of Science, Pacific Northwest Site office, and the Office of Environmental Management, Richland Operations Office, Revision 2, December 2015.

Actions performed under this Annual CX shall not individually or cumulatively have a significant effect on the human environment. This Annual CX shall only be applied to actions that meet the requirements (i.e., 10 CFR 1021.410) and conditions that are "integral elements" (i.e., 10 CFR 1021, Subpart D, Appendix B) for categorically excluding actions under the provisions of the NEPA regulations. There shall be no extraordinary circumstances where normally excluded actions may have significant effects on the human environment.

To avoid extraordinary circumstances potentially affecting ecological resources, ecological resources reviews shall be performed in accordance with established protocols, policies, and procedures to identify plant and animal species for protection under the Endangered Species Act, candidates for protection, or listing by federal or state agencies as threatened or endangered

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consistent with DOE/RL-96-32, "Hanford Site Biological Resources Management Plan" or other applicable guidance documents and agreements. Caution shall be exercised during the bird nesting season (mid-March to mid-July). If nesting birds, pair of birds of the same species, or bird defensive behaviors is observed, then work shall stop and a qualified Ecological Resources Specialist shall be contacted for guidance. Actions that potentially affect ecological resources shall require a resources review and clearance before proceeding. This includes, but may not be limited to, actions that require an excavation permit; disturb the ground; remove or modify dead or living vegetative cover; occur within a Bald Eagle exclusion zone; expand roadways/parking lots; require off-road travel; involve unusual noise, light, or chemicals that may affect wildlife; located on the Hanford Reach National Monument; located in a posted ecologically sensitive area; conducted on the outside of structures; conducted in abandoned structures; and have the potential to alter or affect the living environment. If an ecological resources review determines potentially adverse impacts, then appropriate mitigation actions shall be identified and implemented to avoid, minimize, eliminate, rectify, or compensate the impacts.

To avoid extraordinary circumstances potentially affecting cultural resources, cultural resources reviews shall be performed in accordance with established protocols, policies, and procedures to identify resource protection consistent with the "Programmatic Agreement among the U.S. Department of Energy, Advisory Council on Historic Preservation, and Washington State Historic Preservation Office for Maintenance, Deactivation, Alteration, and Demolition of the Built Environment on the Hanford Site" (DOE/RL-96-77); the "Hanford Site Manhattan Project and Cold War Era Historic District Treatment Plan (DOE/RL-97-56); the "Cultural Resources Management Plan" (DOE/RL-98-10), and other applicable guidance documents and agreements (e.g. "Gable Mountain and Gable Butte Management Plan" [DOE/RL-2008-17]). Cultural sensitivity shall be determined using site location topographic maps, geographic information system databases, and/or pedestrian surveys to identify proximity to cultural resources (i.e., historic buildings, traditional cultural properties, artifacts, and previously recorded archaeological sites).

Actions located within the geographic boundary of a significant cultural resource or historic property, Traditional Cultural Property (including but not limited to Rattlesnake Mountain, Gable Mountain, Gable Butte, Mooli Mooli, and other undocumented areas), cemetery or burial sites, or within 400 meters of the Columbia River may be located in culturally sensitive areas.

DOE/RL-96-77 exempts from cultural resources review certain actions that take place indoors or do not affect certain facilities identified in Tables A.5 through A.7 of DOE/RL-97-56. These actions are listed in Stipulation III of DOE/RL-96-77 and include, but may not be limited to, routine maintenance; replacement in kind; refinishing in kind; energy conservation measures; security and personal safety systems; actions associated with post- cold war buildings and structures; asbestos abatement actions; and facility transition actions to deactivate, de-energize, or isolate systems. Exemptions are also provided for mobile trailers, modular buildings, subsurface structures, storage tanks, wells/boreholes, and towers. If the action affects a facility that appears in Tables A.5 or A.6 of DOE/RL-97-56 and the undertaking is not exempt based on Section III.B of DOE/RL-96-77, then a cultural resources review shall be performed.

Historic structures or locations that require cultural resources review and clearance include, but may not be limited to, The Hanford Site Manhattan Project National Historic Park, including the Bruggeman Agricultural Complex Warehouse, White Bluffs Bank, Hanford High School, B Reactor and Hanford Irrigation District Pump House. Other historic structures and locations include, the White Bluffs Log Cabin, Hanford Townsite, Hanford Substation, White Bluffs Townsite, AAA Military Camps, NIKE Missile Base, and selected historic buildings.

Workers shall be directed to watch for cultural materials (i.e., bones, stone tools, mussel shells, cans, bottles, etc.). If encountered, then work near the discovery shall stop until a qualified Cultural Resource Specialist is contacted, the significance of the find determined, appropriate Tribes notified, and mitigation arranged and implemented, as needed.

PNNL uses an Electronic Prep and Risk (EPR) System to screen project impacts. It shall be incumbent upon the Environmental Compliance Officers, NEPA Subject Matter Expert, or other NEPA



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**Categorical Exclusion Integral Elements:**

Would the proposed action threaten a violation of applicable statutory, regulatory, or permit requirements for environmental, safety, or health, including DOE and/or Executive Orders?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Would the proposed action require siting, construction, or major expansion of waste storage, disposal, recovery, or treatment facilities?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Would the proposed action disturb hazardous substances, pollutants, contaminants, or CERCLA-excluded petroleum and natural gas products that pre-exist in the environment such that there would be uncontrolled or unpermitted releases?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Would the proposed action adversely affect environmentally sensitive resources?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Would the proposed action involve genetically engineered organisms, synthetic biology, governmentally designated noxious weeds, or invasive species such that the action is not contained or confined in a manner designed, operated, and conducted in accordance with applicable requirements to prevent unauthorized release into the environment?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

If "NO" to all Integral Elements questions above, complete Section VI, and provide NRSF to DOE NCO for review.  
If "YES" to any of the Categorical Exclusion Integral Elements questions above, contact DOE NCO for additional NEPA Review.

**VI. Responsible Contractor Signatures:**

**Initiator:**

Michael R. Sackschewsky  6/15/2017  
 Name *Print* Signature Date

**Cognizant Environmental Compliance Officer:**

\_\_\_\_\_  
 Name *Print* Signature Date

**VII. DOE Approval/Determination**

DOE NEPA Compliance Officer: Diori L. Kreske, NEPA Compliance Officer (NCO)

Based on my review of information conveyed to me and in my possession (or attached) concerning the proposed action, as NEPA Compliance Officer (as authorized under DOE Order 451.1B), the proposed action fits within the specified class of action:

NCO Determination:  CX      \*NCO Recommendation:  EA     EIS

 6/29/17  
 Signature Date

\*NRSF A-6006-950 would be completed by responsible contractor