



U.S. Department of Energy
Portsmouth/Paducah Project Office

National Environmental Policy Act (NEPA) Environmental Evaluation Checklist

PPPO-F-450.1B, Rev. 2
September 2014

National Environmental Policy Act Review

Instructions: <ul style="list-style-type: none"> • Submit one copy of the completed NEPA Checklist with supplemental information to the PPPO Project Coordinator. • PPPO Project Coordinator will distribute to PPPO Program NEPA Coordinator and/or PPPO NEPA Compliance Officer (NCO) for approval. • File the completed checklist with the project files, as appropriate. • Completion of this checklist is not required for CERCLA actions. However, the Contractor's Project Coordinator is responsible for ensuring that a commensurate level of project detail is provided to the CERCLA Project Manager so that proper consideration and analysis of the work can be performed via the CERCLA process. 			
Activity title and project number (if any): Maintenance Activities			Date: 11/08/2011
Contractor Project Contact Name:	Telephone Number:	PPPO Project Coordinator:	Telephone Number:
Forecast Activity start date: November 2011	Estimated cost:	Activity location: PORTS/PAD <input checked="" type="checkbox"/> PORTS <input type="checkbox"/> Other _____ <input type="checkbox"/> PAD <input type="checkbox"/>	
Activity description: This should be a brief but thorough description of the proposed activity. Be very specific in explaining the purpose and location (a developed/non-developed area, outside/inside/adjacent to an existing building number, etc.)			
<p>The DOE Portsmouth/Paducah Project Office (PPPO) proposes to perform various routine activities, including corrective/preventive maintenance and maintenance support services.</p> <p>No known extraordinary circumstances would be associated with these actions that might affect the significance of the environmental effects of the proposed action based on past similar actions. These actions would not be connected to other actions with potentially significant impacts or related to other proposed actions with cumulatively significant impacts; they would meet the conditions that are integral elements of the classes of actions which may be categorically excluded from further National Environmental Policy Act (NEPA) documentation. Should the action not meet the conditions CX consideration, a separate NEPA document would be prepared and submitted to DOE PPPO for review and approval.</p> <p>Any wastes generated as a result of maintenance activities would be acceptable for disposal in existing facilities. The proposed action would be evaluated by Pollution Prevention or other responsible personnel for action options to reduce or eliminate generation of waste materials.</p> <p>Although an action might fall under the category of "routine maintenance," a separate NEPA review would be performed and documented should the action or related/cumulative effect of the action have the potential to result in an unusual or significant impact to the environment.</p> <p>Activities under this categorical exclusion were developed to cover activities for DOE PPPO. A NEPA Environmental Checklist must be completed for each specific activity that uses the generic CX. Once completed, the NEPA Environmental Checklist will be filed and maintained as part of the project record.</p>			



National Environmental Policy Act (NEPA) Checklist

Detailed description: (Attach additional pages for description if necessary and include references to the documents)

See attached categorical Exclusion (CX) for Maintenance Activities [CX-GEN-011].

The proposed PCB management activities that would take place on the Paducah site have been reviewed in accordance with the *Cultural Resource Management Plan* (CRMP) (BJC/PAD-69 1/R1 , March 2006) and the approved Programmatic Agreement (PA) and would not result in an adverse effect to historic properties.

At PORTS, the proposed action has been reviewed and addressed as a No Potential to Effect historic properties and has been duly documented to the file. The proposed activities would be reviewed to ensure they are covered by the No Potential to Effect letter and if they are not, a Section 106 review would be completed.

To ensure that sensitive resources are protected, existing maps and surveys/studies of threatened and endangered species and their habitats, and wetlands and floodplains would be consulted. In addition, personnel responsible for identifying sensitive resources would be contacted and, if warranted, additional surveys would be conducted to confirm or update available information.

No known extraordinary circumstances would be associated with these actions that might affect the significance or the environmental effects of the proposed action based on past similar actions. These actions would not be connected to other actions with potentially significant impacts or related to other proposed actions with cumulatively significant impacts; they would meet the conditions that are integral elements of the classes of actions which may be categorically excluded from further National Environmental Policy Act (NEPA) documentation. Should the action not meet the conditions for categorical exclusion (CX) consideration, a separate NEPA review would occur and any necessary next steps pursuant to NEPA would be determined based upon the review.



National Environmental Policy Act (NEPA) Checklist

Questions to answer: *A checklist is required to be submitted, evaluated, and approved for all proposed non-CERCLA actions so that a NEPA review may be performed.	Yes	No
1. Will this activity result in a change in emissions, generation rates, or new discharge of hazardous, mixed, radioactive, asbestos, PCB, sanitary/industrial, solid or liquid waste, petroleum substance, wastewater, or any other pollutants from a facility or process?	<input type="checkbox"/>	<input type="checkbox"/>
2. Will this activity be located in a previously developed area?	<input type="checkbox"/>	<input type="checkbox"/>
3. Will this activity involve siting, construction, modification, renovation, closure, or shut-down of facilities or processes?	<input type="checkbox"/>	<input type="checkbox"/>
4. Will this activity potentially affect environmentally sensitive areas/resources such as flood plain/wetlands, archeological or architectural historic properties, threatened or endangered species, and/or their habitat, special water sources (e.g. aquifer)?	<input type="checkbox"/>	<input type="checkbox"/>
5. Will this activity involve site characterization, environmental monitoring, or R&D programs?	<input type="checkbox"/>	<input type="checkbox"/>
6. Will this activity involve any type of land disturbance, underground storage tank (UST), or subsurface injection/extraction?	<input type="checkbox"/>	<input type="checkbox"/>
7. Will this activity involve a site evaluation area, RCRA/CERCLA area/facility?	<input type="checkbox"/>	<input type="checkbox"/>
*Note: - If any answers to these questions are unknown, call the contractor Project Environmental Coordinator Manager, Program NEPA Coordinator, or PPPO NCO for consultation. - If any are marked "Yes", complete rest of NEPA Checklist.		
Environmental Impacts Evaluation (Note: If any are "Yes", provide specifics/supplemental information.)		
Air:		
• Will there be a new air emission or a change in the quantity of an existing air emission?	<input type="checkbox"/>	<input type="checkbox"/>
Surface Water:		
• Will there be a liquid release to streams, wetlands, seepage basins, storm drains, process sewers, ponds, or lakes?	<input type="checkbox"/>	<input type="checkbox"/>
• Will river or stream water be utilized?	<input type="checkbox"/>	<input type="checkbox"/>
Groundwater:		
• Will there be a discharge to subsurface/groundwater?	<input type="checkbox"/>	<input type="checkbox"/>
• Will groundwater be utilized?	<input type="checkbox"/>	<input type="checkbox"/>
Safety:		
• Is there a potential exposure to hazardous substances (e.g. radiological/toxic/chemical materials)?	<input type="checkbox"/>	<input type="checkbox"/>
• Is there a potential for explosion or criticality?	<input type="checkbox"/>	<input type="checkbox"/>
• Does action involve transportation of hazardous materials?	<input type="checkbox"/>	<input type="checkbox"/>
Natural/Cultural Resources:		
• Is there a potential for impacts on wetlands, streams, ponds, floodplains (or floodways), or special sources of water such as sole-source aquifers?	<input type="checkbox"/>	<input type="checkbox"/>
• Is there a potential impact on fish/wildlife resources or habitats?	<input type="checkbox"/>	<input type="checkbox"/>
• Is there a potential impact on protected species (e.g. sensitive, state or federally-listed rare, threatened, or endangered) or their habitat?	<input type="checkbox"/>	<input type="checkbox"/>
• Will this involve/effect any genetically engineered organism, synthetic biology, governmentally-designated noxious weeds or invasive species?	<input type="checkbox"/>	<input type="checkbox"/>
• Is there a potential for impacting archaeological or architectural historic properties?	<input type="checkbox"/>	<input type="checkbox"/>
• Does this action require an excavation permit?	<input type="checkbox"/>	<input type="checkbox"/>
Potential Cumulative Effects/Components for Larger Line Item Project:		
• Are there potential cumulative effects when combined with other actions?	<input type="checkbox"/>	<input type="checkbox"/>
• Is the proposed activity a component of a larger line item project?	<input type="checkbox"/>	<input type="checkbox"/>
• Write in document title or reference number:		

For Contractor Project Management Use Only		
Contractor Project Contact Printed Name and Signature:	Contractor Company Name:	Telephone Number:

For DOE PPPO NEPA Compliance Officer Use Only (NEPA recommendation)
<input checked="" type="checkbox"/> CX applied for by DOE Project Coordinator (Must meet all requirements of 10 CFR 1021.410(b) (Provide CX applicable number(s) below)
Action covered under 10 CFR Part 1021.410 Appendix: B1.3, B1.27, B2.1, B2.3, and B2.5



National Environmental Policy Act (NEPA) Checklist

Covered by previous NEPA documentation (CX, EA, EIS): _____
(Write in document title or reference number(s))

Additional NEPA documentation required: EA EIS Revised ROD Revised FONSI

PPPO Project Coordinator Printed Name and Signature:

Date NEPA Checklist Completed:

For DOE PPPO NEPA Compliance Officer Use Only (NEPA determination) Based upon my review of information conveyed to me and in my possession (or attached) concerning the proposed action, as NEPA Compliance Officer, I have determined that the proposed action fits the specific class of actions, the other regulatory requirements set forth above are met, and the proposed actions are hereby categorically excluded for further NEPA review.

Approved

Approved – with comments

NOT approved – alternate NEPA action required

DOE PPPO NEPA Compliance Office Signature:

Date of Signature:

Kristi Wiehle

3-14-18



**National Environmental Policy Act (NEPA)
Categorical Exclusion (CX) for Maintenance Activities
CX-GEN-011**

The DOE Portsmouth/Paducah Project Office (PPPO) proposes to perform various routine maintenance activities, including corrective/preventive, and maintenance-related activities for DOE facilities and properties.

The proposed maintenance actions would take place at DOE-owned Portsmouth Gaseous Diffusion Plant (PORTS) facility located in Piketon, Ohio; and the DOE-owned Paducah Gaseous Diffusion Plant (PAD) located in Paducah, Kentucky.

The proposed actions comprise maintenance support services frequently and routinely requested for operational support of DOE facilities and properties. While these actions are intended to maintain current operations, they would not substantially extend the useful life of a facility or allow for substantial upgrade or improvement. Such major renovations, upgrades, or other large-scale improvements would be appropriately documented through the National Environmental Policy Act (NEPA) process. The following is a listing of maintenance support services frequently and routinely requested for operational support of DOE facilities and properties:

1. Direct replacement or removal of equipment and/or facility components.
2. Maintenance, installation, relocation, removal, and repair of equipment, facility components, and associated systems, which include, but are not limited to, the following:
 - A. Machine shop equipment such as jib cranes, motors, valves, shredders, compressors, pumps, castors, power supplies, lathes, saws, shears, presses, welding equipment, dust collectors, dry-boxes, and vent systems.
 - B. Processing, forming, and recovery equipment such as presses, rolling mills, tanks, ultrasonic cleaners, heat exchangers, ovens, furnaces, brazing and sintering equipment, cryogenic equipment, salt baths, centrifuges, conveyors, piping, autoclaves, hydroforms, forming presses, separators, humidifiers, vacuum pumps, molding and extruding equipment, filtration equipment, grinders, mills, and supercritical cleaning apparatus.

Inspection, monitoring, laboratory, and analytical equipment such as calorimeters, temperature and humidity chambers, refrigerators, freezers, blenders, grinders, polishers, blasters, X-ray generators, diffractometers, spectrometers, spectrographs, spectrophotometers, chromatographs, densitometers, lasers, microscopes, balances, process controllers, indicating/recording devices, ultrasonic and plasma generating equipment, analyzers, viscometers, and measuring equipment.
 - C. Control equipment such as weirs, skimmers, glove boxes, hoods, stacks, filters, filter housings, fans, exhausts, bag houses, precipitators, and scrubbers.
3. Maintenance, repair, relocation, modification, and installation of utility systems including, but not limited to, the following:
 - A. Water systems
 1. cooling water
 2. steam and condensate lines
 3. potable and process
 4. storm sewer and drainage
 5. demineralizer
 6. sanitary sewers



**National Environmental Policy Act (NEPA)
Categorical Exclusion (CX) for Maintenance Activities
CX-GEN-011**

7. fire protection systems
8. plumbing
- B. Supplied air, gases, and liquid piping distribution systems including nitrogen, argon, helium, oxygen, propane, natural gas, and cryogenic piping systems, as well as equipment for gas cylinders.
- C. Electrical systems
 1. switchyards
 2. building conduit, wiring, and lighting
 3. emergency lighting
 4. circuit and wiring maintenance
 5. PCB transformers, utility poles, conductors, insulators and circuit breakers, capacitors, and transmission lines
- D. Communications and computer systems
 1. public address
 2. VAX, FAX, computer, and peripheral
 3. phones and facsimile equipment
 4. broadband and optical networks
- E. Security systems such as computer security, detection, monitoring, surveillance, and alarm systems, including doors, walls, barriers, barricades, cameras, monitors, and shields.
4. Installation, repair, and modification of heating, ventilating, and air conditioning systems and associated filtration systems.
5. Maintenance, repair, installation, or direct replacement associated with structures or buildings, including elevators, cranes, lifts, hoists, doors; ceilings, walls, windows, floors, floor coverings, painting, siding, roofing, and the mounting and hanging of wall items.
6. Routine service activities:
 - A. Mowing and trimming of grass, shrubs, and trees
 - B. Assembling, uncrating, moving, and installing furniture and equipment
 - C. Snow removal
 - D. Routine landscaping, re-vegetation, de-vegetation, and erosion control activities
 - E. Janitorial, custodial, and housekeeping activities
 - F. Small-scale use of pesticides and herbicides in accordance with applicable regulations
 - G. Maintenance and repair of roads, road embankments, road drainage systems, sidewalks, and parking lots
 - H. Maintenance and repair of vehicles and heavy equipment
 - I. Maintenance and repair of safes, vaults, and locks
 - J. Maintenance and repair of industrial machinery



**National Environmental Policy Act (NEPA)
Categorical Exclusion (CX) for Maintenance Activities
CX-GEN-011**

- K. Maintenance, repair, and installation of fencing
- L. Fabrication and installation of indoor and outdoor signs
- M. Construction of scaffolding
- N. Calibration, testing, repair, and maintenance of facility components, instrumentation, and equipment
- O. Preventive and corrective actions required to maintain and preserve buildings, structures, and equipment in a condition suitable for fulfillment of their designated purpose
- P. Fabrication of tooling, fixtures, and parts used with equipment and/or structures for experimental work
- Q. Routine decontamination of tools, rooms, surfaces, and equipment and removal of contaminated intact equipment and other materials where the action is not part of a decommissioning project
- R. Routine on-site transfer of liquid wastes from tanks and drums to existing permitted/approved facilities for neutralization, treatment, and/or storage
- S. Maintenance of hazard-prevention equipment, including grounding of equipment and cabinets and mounting fire extinguishers
- T. Maintenance, including tightness testing and repair, of storage tanks and associated piping
- 7. Maintenance support activities required to maintain environment, safety, and health standards, including the following:
 - A. Maintenance, repair, replacement, relocation, fabrication, installation, and modification of safety railings, machine guards, hand rails, machine and belt guards, guard rails, stairs, ladders, and frames
 - B. Installation of non-skids faces and anchoring of floor mats
 - C. Grounding of structures and equipment
 - D. Installation and repair of eye washes, safety showers, and radiation monitoring devices
 - E. Maintenance, repair, or replacement of equipment used in current operations designed to maintain compliance with permits and regulations
- 8. Maintenance of waste treatment, storage, and disposal facilities, including the following:
 - A. Maintenance of landfills
 - B. Maintenance, repair, or replacement of liquid retention tanks, dikes, and associated piping
 - C. Maintenance or repair of lagoons, quarries, and basins
 - D. Maintenance of mixed, solid, liquid, radioactive, and inert waste storage areas
 - E. Maintenance of temporary waste holding areas for routine activities
- 9. Maintenance of surplus facilities in accordance with DOE Order 435.1 Change 1, *Radioactive Waste Management* (or the most current DOE Order).
- 10. Maintenance and repair of environmental monitoring systems (e.g., flow meters, weirs, stilling wells, and air sampling devices).



**National Environmental Policy Act (NEPA)
Categorical Exclusion (CX) for Maintenance Activities
CX-GEN-011**

11. Groundwater monitoring well maintenance that would include maintenance and repair or replacement of well caps, hasps, locks, protective casings, posts, and concrete pads. Well maintenance would also include additional well development to remove incrustation and sediment accumulations, well logging, and re-grading/re-paving of access roads to maintain access to well sites.
12. Maintenance of existing structures at sewage treatment and groundwater treatment facilities.
13. Maintenance and repair of ventilation off-gas scrubbing, absorption, and filtration systems.
14. Maintenance and repair of office equipment, including printers, scanners, laser printers, copiers, cameras, and phototypesetters.
15. Routine decontamination of tools, rooms, hot cells, equipment, and other interior surfaces and removal of contaminated intact equipment and other materials where the action is not part of a decommissioning project.
16. Routine paving of gravel parking lots and roads.
17. Surveillance and maintenance associated with storage of cylinders containing uranium hexafluoride at facilities designated for their storage.
18. Small-scale, routine open burning of cleared woody brush from landscape maintenance activities, in accordance with approved permits, which will not occur in sensitive areas such as archaeological or historic sites and which will have no impact on (a) habitats of any threatened, endangered, or other rare wildlife species of special concern; (b) floodplains; or (c) wetlands.
19. Activities that would be required for disconnecting utility services such as water, steam, telecommunications, and electrical power after it has been determined that continued operation of these systems would not be needed for safety purposes.
20. Establishment and maintenance of a temporary spoil storage area of excess earthen material, gravel, or asphalt for reuse