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**CATEGORICAL EXCLUSION DETERMINATION
FEMP OPERATION AND ROUTINE
MAINTENANCE PROJECTS - CY 1994 NEPA DOC.
NO. 442**

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NATIONAL ENVIRONMENTAL POLICY ACT**CATEGORICAL EXCLUSION DETERMINATION****FEMP OPERATION AND ROUTINE MAINTENANCE PROJECTS - CY 1994
NEPA Document No. 442****Fernald Environmental Management Project
Fernald, Ohio****Proposed Action**

The United States Department of Energy (DOE) proposes to conduct normal facility operations and perform routine maintenance projects on various facilities at the Fernald Environmental Management Project (FEMP).

Location

The proposed action will occur within the boundaries of the 1,050-acre FEMP site and within the property on which the DOE has temporary and permanent off-site easements. The FEMP site is located 18 miles northwest of downtown Cincinnati, Ohio.

Background

At the FEMP, facility operation and routine maintenance activities that are corrective, preventative, and predictive are required to maintain and preserve buildings, structures, infrastructures, and equipment in a condition suitable for its designated purpose. These activities are therefore vital to accomplishing the FEMP mission of cleanup and environmental restoration. This CX is an update to CX No. 414, "FEMP Operation and Routine Maintenance Projects - CY 1993." This CX will be updated on an annual basis.

Description of the Proposed Action

The proposed action will involve a variety of operating and routine maintenance activities for a period of one year. These activities may include the following actions:

1. Training exercises and simulations.
2. Maintenance, repair, or direct replacement of in-kind process equipment and associated systems which include, but are not limited to:
 - A. Fans and tanks
 - B. Machine shop equipment
 - C. Heat exchangers
 - D. Ovens and furnaces
 - E. Bag houses and scrubbers
 - F. Conveyers

- G. Motors
- H. Piping
- I. Valves
- J. Compressors
- K. Pumps
- L. Inspection equipment
- M. Motor control center

3. Maintenance and repair of utility systems including water, electrical, communication, and data processing systems.

A. Maintenance and repair of plant water systems including:

- 1) Cooling water systems
- 2) Potable water systems
- 3) Storm sewers and plant drainage
- 4) Plumbing (e.g., valves, piping)
- 5) Waste water treatment

B. Maintenance, repair, or direct replacement of plant and building electrical systems including:

- 1) Switchyards
- 2) Building conduit, wiring, and lighting
- 3) Emergency lighting
- 4) Circuit and wiring maintenance
- 5) Transformers, utility poles, crossarms, insulators, and downed transmission lines

C. Maintenance, repair, or direct replacement of communications and computer systems including:

- 1) Public address system
- 2) Vax, FAX, computer, and peripheral systems
- 3) Telephone systems
- 4) Emergency warning

4. Routine plant service activities, including but not limited to:

- A. Mowing, minor clearing and trimming of grass, shrubs, and trees
- B. Assembling, uncrating, and moving furniture and equipment
- C. Activities involving snow removal
- D. Routine revegetation and erosion control activities
- E. Janitorial and housekeeping activities
- F. Small-scale use of pesticides
- G. Small-scale road, sidewalk, and parking lot repair
- H. Maintenance and repair of plant vehicles and heavy equipment
- I. Maintenance of plant safes/vaults and locks
- J. Busing and plant transportation
- K. Maintenance or repair of industrial machinery
- L. Maintenance, repair, replacement, or installation of fencing
- M. Fabrication and installation of indoor and outdoor signs
- N. Construction of scaffolding
- O. Railroad repairs

- P. Calibration, testing, repair, and maintenance of instrumentation and electronic equipment
 - Q. Routine decontamination of tools, surfaces, and equipment where the action is not part of a decommissioning project
5. Maintenance of waste treatment, storage, and disposal facilities:
- A. Minor spill cleanup activities
 - B. Maintenance or repair of liquid retention tanks, dikes, and piping
 - C. Maintenance or repair of lagoons and small basins
6. Maintenance, repair, or direct replacement associated with structures or buildings including:
- A. Painting
 - B. Siding
 - C. Roofing
 - D. Mounting and hanging wall items
 - E. Door, ceiling, wall, window, floor, floor covering repair/replacement
 - F. Cabinet and shelf fabrication and installation
 - G. Elevator repair
 - H. Preventative and corrective actions required to maintain and preserve buildings, structures, and equipment in a condition suitable for fulfillment of its designated purpose (e.g., structural integrity tests)
7. Maintenance required for safety and hazard prevention including:
- A. Fabrication, installation, and repair of safety railings, machine guards, hand rails, guard rails, frames, and fences
 - B. Installation of nonskid surfaces and anchoring floor mats
 - C. Grounding of structures and equipment
 - D. Maintenance, repair, or replacement of eye washes, safety showers, and radiation monitoring devices
 - E. Replacement of panic devices
8. Maintenance and repair of security systems including:
- A. Computer security
 - B. Detection, monitoring, surveillance, and alarm systems
9. Maintenance, repair, or replacement of heating, ventilation, and air conditioning systems and high efficiency particle air filters.

Categorical Exclusion to be Applied

The authority for finding this project to be subject to NEPA Categorical Exclusion is contained in Subpart D of the revision to 10 CFR 1021, entitled "National Environmental Policy Act Implementing Procedures and Guidelines." The Final Rule and Notice, effective May 26, 1992, includes a revised and expanded

list of categorical exclusions that are classes of actions that normally do not require the preparation of either an Environmental Impact Statement or an Environmental Assessment.

The Final Rule and Notice specifically lists in Part 1021, Appendix B to Subpart D, Sec. 1021.410, B1, the following as types of actions that are Categorical Exclusions applicable to Specific Agency Actions:

B1 - Categorical Exclusions Applicable to Facility Operation:

B1.2 Training exercises and simulations (including, but not limited to, firing-range training, emergency response training, fire fighter and rescue training, and spill cleanup training).

B1.3 Routine maintenance activities and custodial services for buildings, structures, infrastructures (e.g., roads), and equipment, during which operations may be suspended and resumed. Custodial services are activities to preserve facility appearance, working conditions, and sanitation, such as cleaning, window washing, lawn mowing, trash collection, painting, and snow removal. Routine maintenance activities, corrective (that is, repair), preventative, and predictive (as defined in DOE Order 4330.4, "Maintenance Management"), are required to maintain and preserve buildings, structures, infrastructures, and equipment in a condition suitable for a facility to be used for its designated purpose. Routine maintenance may result in replacement to the extent that the replacement is in kind and is not a substantial upgrade or improvement. Routine maintenance does not include replacement of a major component that significantly extends the originally intended useful life of a facility (for example, it does not include the replacement of a reactor vessel near the end of its useful life). Routine maintenance activities include, but are not limited to:

- (a) Repair of facility equipment, such as lathes, mills, pumps, and presses;
- (b) Door and window repair or replacement;
- (c) Wall, ceiling, or floor repair;
- (d) Reroofing;
- (e) Plumbing, electrical utility, and telephone service repair;
- (f) Routine replacement of high-efficiency particulate air-filters;
- (g) Inspection and/or treatment of currently installed utility poles;
- (h) Repair of road embankments;
- (i) Repair or replacement of fire protection sprinkler systems;
- (j) Road and parking area resurfacing, including construction of temporary access to facilitate resurfacing;
- (k) Erosion control and soil stabilization measures (such as reseeding and revegetation);
- (l) Surveillance and maintenance of surplus facilities in accordance with DOE Order 5820.2 "Radioactive Waste Management";
- (m) Repair and maintenance of transmission of facilities including replacement of conductors of the same nominal voltage, poles, circuit breakers, transformers, capacitors, crossarms,

insulators, and downed transmission lines, in accordance, where appropriate, with 40 CFR Part 761 (Polychlorinated Biphenyls Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions);

- (n) Routine testing and calibration of facility components, subsystems, or portable equipment (including but not limited to control valves, in-core monitoring devices, transformers, capacitors); and
- (o) Routine decontamination of spot or minor contamination on the surfaces of equipment, rooms, hot cells, or other interior surfaces of buildings (by such activities as wiping with rags, using removable latex, and minor vacuuming) and removal of contaminated intact equipment (labware) and other materials (e.g., gloves and other clothing).

B1.4 Installation or modification of air conditioning systems required for temperature control of operation of existing equipment.

B1.5 Minor improvements to cooling water systems within an existing building or structure if the improvements would not: (1) Create new sources of water or involve new receiving waters; (2) adversely affect water withdrawals or the temperature of discharged water; or (3) increase introductions of or involve new introductions of hazardous substances, pollutants, contaminants, or CERCLA-excluded petroleum and natural gas products.

B1.6 Installation or modification of retention tanks or small (normally under one acre) basins and associated piping and pumps for existing operations to control runoff or spills (such as under 40 CFR part 112). Modifications include, but are not limited to, installing liners or covers.

B1.7 Acquisition, installation, operation, and removal of communication systems, data processing equipment, and similar electronic equipment.

B1.8 Modifications to screened water intake structures that result in intake velocities and volumes that are within existing permit limits.

B1.9 Placement of airway safety markings and painting (but excluding lighting) of existing electrical transmission lines and antenna structures in accordance with Federal Aviation Administration standards.

B1.10 Routine, onsite storage at an existing facility of activated equipment and material (including lead) used at that facility, to allow reuse after decay of radioisotopes with short half-lives.

B1.11 Installation of fencing, including that for border marking, that will not adversely affect wildlife movements or surface water flow.

B1.13 Acquisition or minor relocation of existing access roads serving

existing facilities if the traffic they are to carry will not change substantially.

B1.21 Minor noise abatement measures, such as construction of noise barriers and installation of noise control materials.

These Categorical Exclusions are appropriate since the proposed actions as described will be normal operations and routine maintenance required to operate and to maintain and preserve the FEMP's buildings, structures, infrastructures, and equipment in a condition suitable for the designated purposes.

The proposed actions, including but not limited to facility operations, maintenance, repair, replacement, and routine service, will not violate applicable statutory, regulatory, or permit requirements; they will not require siting and construction nor major expansion of waste disposal, recovery or treatment facilities. The proposed actions will have no significant adverse impact on any environmentally sensitive areas (e.g., wetlands, floodplains, or the sole-source aquifer) and will be conducted as permitted activities.

Compliance Action

I have determined that the proposed action meets the requirements for the CX referenced. Therefore, the proposed action is categorically excluded from further NEPA review and documentation.

Approval:



J. Phil Hamric, Manager
U.S. Department of Energy, Fernald Office

Date:

1/21/94