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**APPROVED CATEGORICAL EXCLUSIONS, MAY 1995**

06/06/95

DOE-1038-95  
DOE-FN      FERMCO  
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Department of Energy  
Fernald Environmental Management Project  
P. O. Box 398705  
Cincinnati, Ohio 45239-8705  
(513) 648-3155

JUN 0 6 1995

DOE-1038-95

Mr. Terence Hagen, Director  
Environmental Compliance  
Fernald Environmental Restoration  
Management Corporation  
P.O. Box 538704  
Cincinnati, Ohio 45253-8704

Dear Mr. Hagen:

**APPROVED CATEGORICAL EXCLUSIONS, MAY 1995**

The enclosed categorical exclusions (CXs) under Subpart D of the Department of Energy's National Environmental Policy Act Procedures and Guidelines, 10 CFR 1021, effective May 26, 1992, have been approved by DOE-OH. The five proposed actions that were approved are:

- CX 466 Pilot Plant Drainage Ditch Project
- CX 467 Installation of Prefabricated Structures - CY 95/96
- CX 468 FEMP Routine Shipping Activities CY 95/96
- CX 469 Kimble Property Remediation Project
- CS 470 New FEMP Boiler Plant

If you have any questions on this subject, please direct them to Ed Skintik at 648-3151.

Sincerely,

*Walter J. Quaid*  
Walter J. Quaid  
Acting Associate Director  
Office of Safety & Assessment

FN:Skintik

Enclosure: As Stated

cc w/enc:

K. Chaney, EM-423, TREV  
R. Scott, EM-20, FORS  
Administrative Record

cc w/o enc:

D. Anderson, DOE-FN  
H. Etkind, DOE-FN  
R. Janke, DOE-FN  
J. Reising, DOE-FN

D. Kozlowski, DOE-FN

United States Government

Department of Energy

Ohio Field Office

# memorandum

I-2536  
OH-1691-95

DATE: MAY 25 1995

REPLY TO  
ATTN OF: OH:Smiley

SUBJECT: CATEGORICAL EXCLUSION DETERMINATIONS ON FIVE PROPOSED  
ACTIONS AT THE FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

TO: Jack Craig, Director, FN

Attached please find the following environmental checklists, previously submitted by your office, for five proposed actions at the Fernald Environmental Management Project (FEMP):

- CX No. 466 Pilot Plant Drainage Ditch Project
- CX No. 467 Installation of Prefabricated Structures - CY1995 and 1996
- CX No. 468 FEMP Routine Shipping Activities - CY1995 and 1996
- CX No. 469 Kimble Property Remediation Project
- CX No. 470 New FEMP Boiler Plant

My staff has reviewed the above proposed actions in accordance with DOE's National Environmental Policy Act (NEPA) regulation (10 CFR Section 1021, Appendix B to Subpart D) and, based on this review, I have determined that these actions are **categorically excluded** from the requirement to prepare additional NEPA documentation in the form of either an Environmental Assessment (EA) or an Environmental Impact Statement (EIS).

If you have any questions on the attached checklists, please contact my NEPA Compliance Officer, Ms. Sue Smiley, at (513) 865-3987.

  
J. Phil Hamric  
Manager

Attachments: As Stated

cc w/o att:  
Ed Skintik, FN



NATIONAL ENVIRONMENTAL POLICY ACT (NEPA)  
CATEGORICAL EXCLUSION DETERMINATION

Pilot Plant Drainage Ditch Project  
NEPA Document No. 466  
Fernald Environmental Management Project  
Fernald, Ohio

Proposed Action

The United States Department of Energy (DOE) proposes to install a sump pump to collect seepage at the outfall of the pilot plant drainage line along with piping directed to the Advanced Wastewater Treatment (AWWT) facility from the installed and existing sump, at the Fernald Environmental Management Project (FEMP).

Location

The drainage ditch is located just west of Building 51. Building 51 is located in the southwest corner of the former Production Area, near the center of the FEMP site. The FEMP is located approximately 18 miles northwest of downtown Cincinnati, Ohio.

Background

In the spring of 1993, seep and surface water samples were collected near the capped drain pipe as part of the Operable Unit 5 (OU5) Remedial Investigation process and indicated elevated levels of total uranium. In 1994 dye testing was performed to confirm or identify the source of contaminated water discharged from the capped discharge pipe. No dye was detected, therefore, it is probable that runoff and seepage from the Pilot Plant sump may infiltrate along and into the vitrified clay pipe, discharging into the Pilot Plant Drainage Ditch.

Description of Proposed Action

The proposed action will involve the collection and treatment of radiologically and chemically contaminated seepage. Included is the installation of a sump within the drainage ditch to contain seepage from the capped abandoned outfall line and a pump and associated piping to direct the effluent to the AWWT. Installation of the sump will include the excavation of approximately 14yd<sup>3</sup> of contaminated soil at the base of the drainage ditch. The contaminated soil will be placed directly into white metal boxes for shipment to the Nevada Test Site. In addition, the existing effluent line from the Pilot Plant sump to the general sump will be abandoned in place. Piping will also be installed from the existing Pilot Plant sump located east of Building 51, to the AWWT.

Less than 0.5 acres of wetlands would be dredged and filled during installation of the sump. Wetland impacts would occur from installation of the sump and equipment movement, resulting in physical disturbance and filling of wetland areas. A Notice of Wetland Involvement was published on April 17, 1995 in the *Federal Register* in accordance with 10 CFR 1022 and appropriate permits will be obtained in accordance with Sections 401 and 404 of the Clean Water Act.

hjt

Categorical Exclusion to be Applied

The authority for finding this project to be subject to NEPA Categorical Exclusion (CX) 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 Assessment or Environmental Impact Statement.

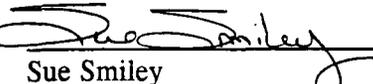
The Final Rule and Notice specifically lists in Part 1021, Appendix B to Subpart D, Sec. 1021.410, B6.3, the following type of action is a Categorical Exclusion applicable to Specific Agency Actions:

B6.3 Improvements to environmental monitoring and control systems of an existing building or structure (for example, changes to scrubbers in air quality control systems or ion-exchange devices and other filtration processes in water treatment systems) if during subsequent operations (1) any substance collected by the environmental control systems would be recycled, released, or disposed of within existing permitted facilities and (2) there are applicable statutory or regulatory requirements or permit conditions for disposal, release, or recycling of any hazardous substance of CERCLA-excluded petroleum natural gas products that are collected or released in increased quantity or that were not previously collected or released.

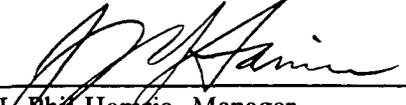
This Categorical Exclusion is appropriate since the proposed action will involve placement and installation of a sump pump to collect and pump contaminated seepage to the AWWT for treatment. The proposed action will not violate applicable statutory, regulatory, or permit requirements; it will not require siting and construction nor major expansion of waste disposal, recovery or treatment facilities.

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.

Concurrence:   
Sue Smiley  
NEPA Compliance Officer

Date: 5/24/95

Approval:   
J. Phil Hamric, Manager  
U.S. Department of Energy, Ohio Field Office

Date: 5/25/95

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FERMCO NEPA CHECK LIST FOR CATEGORICAL EXCLUSIONS

Project: Pilot Plant Drainage Ditch

CX No.: 466

Date: 01/18/95

Project Engineer: Lorenzo Copeland

Phone: 738-9377

Brief Description of Project/Activity:

The U.S. Department of Energy proposes to install a sump pump at the outfall of the Pilot Plant drainage line along with piping directed to the Advanced Waste Water Treatment Facility.

ENVIRONMENTAL CONSIDERATIONS	YES	NO	COMMENTS/RESPONSE
1. Air emissions		X	
2. Liquid effluents	X		Effluent (seepage) from the drainage line will be collected in a sump and pumped to the AWWT for treatment.
3. Waste generation		X	
4. Radioactive materials/soil	X		Approximately 14 yds <sup>2</sup> of soil will be placed in white boxes for shipment to the Nevada Test Site.
5. Hazardous/Mixed waste		X	
6. Building/Utility modification	X		Existing drainage line from Pilot Plant sump to general sump will be abandoned in place. Piping will be reconfigured to AWWT.
7. Chemical storage/use		X	
8. Asbestos materials		X	
9. Clearing of habitat	X		Approximately 0.1 acres of wetland habitat will be cleared as a result of sump construction.
10. Excavation	X		Approximately 14 yds <sup>2</sup> of soil will be excavated for installation of the sump.
11. Archaeological/Cultural Resources		X	
12. Noise levels		X	
13. Pesticide/herbicide use		X	
14. Permit required	X		Appropriate <sup>5/18</sup> permit(s) will be obtained in accordance with Sections 401 and 404 of the Clean Water Act.
15. Transportation issues		X	
16. Special status species/environment		X	
17. Wetland/Floodplain	X		A Wetland Assessment has been prepared in accordance with 10 CFR 1022.
18. Other			

Prepared By: Craig A. Straub

Date: 1/18/95

NRM Manager: *[Signature]*

1-30-95

**NATIONAL ENVIRONMENTAL POLICY ACT (NEPA)**

**CATEGORICAL EXCLUSION (CX) DETERMINATION**

**Installation of Prefabricated Structures, CY 1995-1996**

**NEPA Document No. 467**

**Fernald Environmental Management Project**

**Fernald, Ohio**

**Proposed Action**

The United States Department of Energy (DOE) proposes to install trailers and other prefabricated structures to be used as offices, monitoring stations, guard shacks, storage, or for a similar purpose. The proposed Categorical Exclusion will support the procurement, placement, and utility installation of trailers and similar prefabricated structures needed on a case by case basis throughout CY 1995-1996.

**Location**

All structures will be installed within or adjacent to boundaries of the 136 acres (55 hectares [ha]) of the former Production Area near the center of the Fernald Environmental Management Project (FEMP). Installation locations will include predisturbed areas where utilities, and roads are readily available. The FEMP property occupies 1,050 acres (425 ha) and is located approximately 18 miles northwest of downtown Cincinnati, Ohio.

**Background**

As the FEMP begins to transition into the Remedial Design/Remedial Action phase of clean-up, the need for prefabricated trailers or similar structures for office space, storage, guard shacks, and monitoring stations will change frequently; consequently, the need for these structures will be managed on a case by case basis. The scope of the activities is limited to areas that have previously been prepared for the placement of structures and where utilities (i.e., water, electric, sewer) are available.

**Description of the Proposed Action**

The scope of the proposed project will include the procurement, placement, and securing of prefabricated structures within the FEMP site boundaries. All areas will have been previously disturbed, and capable of supporting the electrical, sewer, water, and traffic needs for the facility. Locations will not include any areas containing potential cultural resources, wetlands, floodplains, or other natural resource issues. Disturbance will be limited to 1 acre per project. Prefabricated structures will not be used for waste treatment, waste storage, or disposal. Waste generated from construction activities will be managed appropriately depending on the location of the structure installation in accordance with Removal Action 17, Improved Storage of Soil and Debris.

**Categorical Exclusion to be Applied**

The authority for finding this project to be subject to NEPA Categorical Exclusion is contained in Subpart D of 10 CFR Part 1021, entitled "National Environmental Policy Act Implementing Procedures and Guidelines." The Final Rule and Notice, effective May 26, 1992, includes a 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, B1.15 and B1.22 the following as a type of action that is a Categorical Exclusion applicable to Specific Agency Actions:

B1.15 - Siting, construction, and operation of small-scale support buildings and support structures (including prefabricated buildings and trailers) and/or small-scale modifications of existing buildings or structures within or contiguous to an already developed area (where site utilities and roads are available). Covered support buildings and structures (and/or modifications) include those for office purposes: parking; cafeteria services; education and training; visitor reception; computer and data processing services; employee health services or recreation activities; routine maintenance activities; storage of supplies and equipment for administrative services and routine maintenance activities; security (including security posts); fire protection; and similar support purposes, but excluding facilities for waste storage purposes, but excluding facilities for waste storage activities, except as provided in other parts of this appendix.

B1.22 - Relocation of buildings (including but not limited to, trailers and prefabricated buildings) to an already existing developed area where site utilities and roads are available and demolition and subsequent disposal of buildings and support structures (including but not limited to smoke stacks and parking lot surfaces).

The proposed action will not violate applicable statutory, regulatory, or permit requirements; it will not require siting and construction or major expansion of waste disposal, recovery, or treatment facilities; and it will not adversely impact any environmentally sensitive areas (e.g., wetlands, floodplains, or the sole-source aquifer). Therefore, the proposed action is applicable to the above referenced CX.

Compliance Action

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

Approval: Sue Smiley  
Sue Smiley, NEPA Compliance Officer  
U.S. Department of Energy, Ohio Field Office

Date: 5/24/95

Approval: J. Phil Hamric  
J. Phil Hamric, Manager  
U.S. Department of Energy, Ohio Field Office

Date: 5/25/95

FERMCO NEPA CHECK LIST FOR CATEGORICAL EXCLUSIONS

Project: INSTALLATION OF PREFABRICATED STRUCTURES, CY 1995-1996

CX No.: 467

Date: 1-17-95

Project Engineer: JERRY JANES

Phone: 738-8480

Brief Description of Project/Activity:

The U.S. Department of Energy proposes to install trailers and other prefabricated structures to be used as offices, monitoring stations, guard shacks, storage, or for a similar purpose.

ENVIRONMENTAL CONSIDERATIONS	YES	NO	COMMENTS/RESPONSE
1. Air emissions		X	
2. Liquid effluents		X	
3. Waste generation	X		Construction waste will be non-contaminated and disposed of in a municipal landfill.
4. Radioactive materials/soil		X	
5. Hazardous/Mixed waste		X	
6. Building/Utility modification		X	
7. Chemical storage/use		X	
8. Asbestos materials		X	
9. Clearing of habitat		X	
10. Excavation		X	
11. Archaeological/Cultural Resources		X	
12. Noise levels		X	
13. Pesticide/herbicide use		X	
14. Permit required		X	
15. Transportation issues		X	
16. Special status species/environment		X	
17. Wetland/Floodplain		X	
18. Other		X	

Prepared By: Thomas W. Underwood

*Thomas Underwood*

Date: 1-17-95

ERM Manager: Eric Woods

*Eric Woods*

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**NATIONAL ENVIRONMENTAL POLICY ACT  
CATEGORICAL EXCLUSION DETERMINATION**

**FEMP Routine Shipping Activities - CY 1995 and 1996  
NEPA Document No. 468  
Fernald Environmental Management Project  
Fernald, Ohio**

**Proposed Action**

The United States Department of Energy (DOE) proposes to conduct shipping of equipment, supplies, waste, and recyclable materials to and from the Fernald Environmental Management Project (FEMP) as part of facility operation and routine maintenance activities.

**Location**

The proposed action will occur at various regional locations, including the FEMP site. The 1050 acre FEMP site is located in a rural area of southwest Ohio, within Butler and Hamilton Counties, approximately 18 miles northwest of downtown Cincinnati, Ohio.

**Background**

Buildings, structures, infrastructures, equipment, and offices must be kept in a suitable condition in order to accomplish the FEMP mission of the safe environmental restoration and compliance. Facility operation and routine maintenance activities at the FEMP are required to maintain and preserve these structures, equipment, and working conditions. Also, new, non-contaminated equipment must be shipped from the FEMP site as part of the Safe Shutdown Program (Removal Action No. 12). This NEPA documentation applies specifically to shipping activities associated with routine plant operation and maintenance activities and the clean equipment as part of the Safe Shutdown Program. Radiological waste or product inventory shipped under Site Response Actions is not covered by this categorical exclusion.

**Description of Proposed Action**

The proposed action will involve a variety of shipments supporting facility operation and routine maintenance activities to and from various local and regional locations. Many different kinds of equipment and supplies are required to preserve the appearance, working conditions, and sanitation of the FEMP. Common items that are shipped to the FEMP as part of facility operation and routine maintenance activities include equipment and materials associated with the maintenance, repair or replacement of the following:

- Process equipment and associated systems
- Utility systems, including water, electrical, communication, and data processing systems
- Small-scale structures or buildings
- Safety hazard and prevention equipment, devices, and structures
- Security systems
- Heating, ventilation, and air conditioning systems and high efficiency particulate air filters

**FEMP Routine Shipping Activities - CY 1995 and 1996**

2 of 2

Materials, equipment, and structures associated with routine plant service activities, such as landscaping, snow removal, furniture assembly, infrastructure repair, vehicle and heavy equipment repair, and janitorial and housekeeping activities.

In addition to the above shipping activities, routine non-contaminated waste disposal activities are required as part of facility operations. Office trash generated on the administrative side of the FEMP, as well as clean, non-contaminated process-side office trash is shipped to a local landfill. Eleven dumpsters are emptied daily and shipped by the landfill owner. This represents approximately 13,100 cubic meters of office trash shipped per year.

Non-contaminated Flyash and bottom ash is produced as a result of routine boiler plant operation at the FEMP. The ash is administratively controlled and monitored to ensure that it is non-contaminated. Approximately 160 tons of flyash and bottom ash are produced and shipped to a local landfill each month.

Non-contaminated asbestos containing material generated on the non-process side of the FEMP is collected and shipped to a local landfill. Less than 150 cubic meters of non-contaminated asbestos containing material is forecasted to be shipped in the next three years.

As part of the FEMP Safe Shutdown Program (Removal Action No. 12), new, non-contaminated equipment will be shipped from the FEMP site to other DOE facilities, various governmental agencies and their subcontractors, or private industry. These shipments are also mandated under DOE's and the U.S. Government property management regulations which seek to obtain the maximum, effective, and economic utilization of property already owned by the Federal Government.

**Categorical Exclusion to be Applied**

The authority for finding this project to be subject to NEPA Categorical Exclusion is contained in Subpart D of 10 CFR Part 1021, entitled "National Environmental Policy Act Implementing Procedures and Guidelines." The Final Rule and Notice, effective May 26, 1992, includes a 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, B1.3 and B6.1, the following as a type of action that is a Categorical Exclusion applicable to Specific Agency Actions:

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 useful life of a facility (for example, it does not include the replacement

of a reactor vessel near the end of its useful life).

B6.1 Removal actions under CERCLA (including those taken as final response actions and those taken before remedial action) and removal-type actions similar in scope under RCRA and other authorities (including those taken as partial closure actions and those taken before corrective action), including treatment (e.g., incineration), recovery, storage, or disposal of wastes at existing facilities currently handling the type of waste involved in the removal action. These actions will meet the CERCLA regulatory cost and time limits or satisfy either of the two regulatory exemptions from those cost and time limits (National Contingency Plan, 40 CFR part 300).

Agree!  
S/S

For CX B1.3, while shipping activities are not specifically mentioned in the referenced CX listing, it is implied that shipping is covered as part of the activity. For instance, trash removal as a routine maintenance activity includes the placement of receptacles for the trash, physical collection of the trash, temporary storage of the trash (e.g., a dumpster), and shipment of the trash to a landfill. In addition, the removal action basis (B6.1) is identified because a component of the Safe Shutdown Removal Action includes dispositioning of non-contaminated equipment.

Furthermore, the proposed action will not violate applicable statutory, regulatory, or permit requirements; it will not require siting and construction or major expansion of waste disposal, recovery, or treatment facilities; and it will not adversely impact any environmentally sensitive areas (e.g., wetlands, floodplains, or the sole-source aquifer). Therefore, the proposed action is applicable to the above referenced CX.

**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.

Concurrence: Sue Smiley  
Sue Smiley  
NEPA Compliance Officer

Date: 5/24/95

Approval: Phil Hamric  
Phil Hamric, Manager  
U.S. Department of Energy, Ohio Field Office

Date: 5/25/95

FERMCO NEPA CHECK LIST FOR CATEGORICAL EXCLUSIONS

Project: FEMP Routine Shipping Activities, CY 1995 - 1996

CX No: 468

Date: 02/21/95

Project Engineer: Various

Phone: N/A

**Brief Description of Project/Activity:** The United States Department of Energy (DOE) proposes to conduct shipping of equipment, supplies, waste, and recyclable material to and from the Fernald Environmental Management Project (FEMP) as part of facility operation and routine maintenance activities.

ENVIRONMENTAL CONSIDERATIONS	YES	NO	COMMENTS/RESPONSE
1. Air emissions		X	Excluding truck emissions.
2. Liquid effluents		X	
3. Waste generation		X	No waste generation associated with shipping waste materials.
4. Radioactive materials/soil		X	
5. Hazardous/Mixed waste		X	
6. Building/Utility modification		X	
7. Chemical storage/use		X	
8. Asbestos materials		X	
9. Clearing of habitat		X	
10. Excavation		X	
11. Archaeological/Cultural Resources		X	
12. Noise levels		X	Excluding truck engine noise.
13. Pesticide/herbicide use		X	
14. Permit required	X		Disposal and shipping permits have been obtained.
15. Transportation issues	X		Proper safety precautions will be implemented per DOT requirements.
16. Special status species/environment		X	
17. Wetland/Floodplain		X	
18. Other		X	

Prepared By: Thomas W. Underwood

Date: 02/08/95

NRM Manager: *W. E. Underwood*

NATIONAL ENVIRONMENTAL POLICY ACT  
CATEGORICAL EXCLUSION DETERMINATION

Kimble Property Remediation Project  
NEPA Document No. 469  
Fernald Environmental Management Project  
Fernald, Ohio

Proposed Action

The United States Department of Energy (DOE) proposes to conduct site characterization and remediation activities at a private property that received radioactively contaminated material from the Fernald Environmental Management Project (FEMP).

Location

The proposed action will occur at a private property located at [REDACTED] located in Butler County. This property is approximately 10 miles north of the FEMP site.

Background

The property consists of two parcels of land on either side of Stillwell Road. A house, a barn, a school bus, and a woodshed are located on the north parcel. The house is the landowners residence. A barn is located on the south parcel.

In 1973 DOE declared material from a cooling tower and a school bus as surplus material. The property owner purchased the materials, arranged for radiological release surveys and transported the materials to his property. Redwood from the cooling tower was used in the construction of the two barns and woodshed and for various craft items (birdhouses, picture frames, tools, etc.). The bus was used for storage.

In 1993 the landowner requested radiological monitoring from DOE. Radiological surveys indicate localized areas of contamination in excess of DOE guidelines. Redwood from the cooling tower is the predominant contaminated material, with smaller amounts of contaminated metal and soil. Radioactive contamination was found throughout the barns, the bus, the woodshed and the garage attached to the house. Also, a burn pit area, junk/ash pile on the north parcel and a junk pile on the south parcel are contaminated.

Description of the Proposed Action

*bkt* Prior to remedial activities, a Site Plan will be prepared. This will include a removal action strategy plan, a health and safety plan, a sampling and analysis plan, waste packaging procedures and waste treatment and disposal options. Site characterization activities include waste characterization to determine

the extent and type of contamination and preparing survey maps to document the location of all contaminated material.

Specific remedial activities will include: sorting, segregating and removing contaminated materials, dismantling structures, decontaminating concrete surfaces, excavating contaminated soil and replacement with clean soil. Post remediation surveying and sampling will verify cleanup. If surveys indicate contamination remains, remediation will continue. Dismantled structures will be replaced. Waste will be treated, stored or disposed as required. A final report will be prepared describing what was removed, what quantities, and results of post remediation surveys.

**Categorical Exclusion to be Applied**

This project is subject to NEPA requirements as 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 B1.22, B3.1 (a,f,g), and B6.1 the following types of actions that are Categorical Exclusions applicable to Specific Agency Actions:

B1.22 Relocation of buildings (including, but not limited to, trailers and prefabricated buildings) to an already developed area where site utilities and roads are available and demolition and subsequent disposal of buildings and support structures (including, but not limited to, smoke stacks and parking lot surfaces).

B3.1 Site characterization and environmental monitoring including siting, construction, operation, and dismantlement or closing (abandonment) of characterization and monitoring devices and siting, construction, and operation of a small-scale laboratory building or renovation of a room in an existing building for sample analysis. Activities covered include, but are not limited to, site characterization and environmental monitoring under CERCLA and RCRA. Specific activities include, but are not limited to:

- (a) Geological, geophysical (such as gravity, magnetic, electrical, seismic, and radar), geochemical, and engineering surveys and mapping, including the establishment of survey marks;
- (f) Sampling and characterization of water, soil, rock, or contaminants;
- (g) Sampling and characterization of water effluent, air emissions, or solid waste streams;

B6.1 Removal actions under CERCLA (including those taken as final response actions and those taken before remedial action) and removal-type actions similar in scope under RCRA and other authorities (including those taken as partial closure actions and those taken before corrective action), including treatment (e.g., incineration), recovery, storage, or disposal of wastes at existing facilities currently handling the type of waste involved in the removal action. These actions will meet the CERCLA regulatory cost and time limits or satisfy either of the two regulatory exemptions from

those cost and time limits (National Contingency Plan, 40 CFR part 300).

These Categorical Exclusions are appropriate since the proposed actions as described will be site characterization, removal and replacement of structures, and remedial activity similar in scope to a CERCLA removal action.

The proposed actions 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 or floodplains).

**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: Sue Smiley  
Sue Smiley, NEPA Compliance Officer  
U.S. Department of Energy, Ohio Field Office

Date: 5/24/95

Approval: J. Phil Hamric  
J. Phil Hamric, Manager  
U.S. Department of Energy, Ohio Field Office

Date: 5/25/95

**NEPA CHECK LIST FOR CATEGORICAL EXCLUSIONS**

PROJECT: Kimble Property Remediation Project		CX NO.: 469
DATE: 3-3-95	PROJECT ENGINEER:	PHONE:

**BRIEF DESCRIPTION OF PROJECT/ACTIVITY:**

*The proposed action will include sampling and characterization activity to confirm nature and extent of contamination, remedial activities to dismantle buildings and remove contaminated material, waste segregation and disposal, and replacement of demolished structures.*

ENVIRONMENTAL CONSIDERATIONS	YES	NO	COMMENT/RESPONSE
1. Air emissions		X	
2. Liquid effluent		X	
3. Waste generation	X		Remedial activities will generate contaminated debris and soil.
4. Radioactive material/soil	X		Debris and soil includes radioactive material.
5. Hazardous/Mixed waste	X?		Characterization is needed to determine <sup>F</sup> if there is RCRA waste.
6. Building/Utility modification	X		Two barns and a shed will be demolished and replaced.
7. Chemical storage/use		X	
8. Asbestos material		X	
9. Clearing of habitat		X	
10. Excavation	X		A limited amount of soil excavation is expected.
11. Archaeological/Cultural Resources		X	
12. Noise levels	X		Some noise from remedial activity.
13. Pesticide/herbicide use		X	
14. Permit Required		X	
15. Transportation issues	X		The project will involve removing material from the site and shipping for ultimate disposal.
16. Special status species/environment		X	
17. Wetland/Floodplain		X	
18. Other		X	

Prepared By: Steve Gibson	Date: March 3, 1995
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42809

**NATIONAL ENVIRONMENTAL POLICY ACT**

**CATEGORICAL EXCLUSION DETERMINATION**

**New FEMP Boiler Plant**

**NEPA Document No. 470**

**Fernald Environmental Management Project**

**Fernald, Ohio**

**Proposed Action**

The United States Department of Energy (DOE) proposes to construct a new, prefabricated boiler plant facility at the Fernald Environmental Management Project (FEMP). The new Boiler Plant will require three new gas-fired boilers and the relocation of an existing, trailer-mounted boiler to the new facility. In addition, a new gas line will be installed to the Boiler Plant.

**Location**

The new Boiler Plant will be located just north of Building 51, the Advanced Wastewater Treatment (AWWT) facility at the southwest corner of the former process area which occupies the center of the FEMP. The existing gas-fired boiler is located north of Plant 4 and will be relocated to the new boiler facility. The new gas line will be installed from Willey Road on the southern boundary of the FEMP Property to the new Boiler Plant location. The FEMP occupies 1,050 acres and is located approximately 18 miles northwest of downtown Cincinnati, Ohio.

**Background**

The existing FEMP boiler plant was constructed in 1951 and is approaching exceedence of usefulness. Although it has been operational through continued maintenance, only two of the four original coal-fired boilers (Numbers 1 and 3) are now operational. It has become increasingly difficult to obtain replacement parts. There is an expectation that the two operational coal-fired boilers will need re-tubing within the next five years. The remaining life of these boilers is between 5 and 20 years. #

An even greater problem with the existing boiler is that of regulatory compliance. Presently Boiler Numbers 1 and 3 are permitted to operate by the Ohio Environmental Protection Agency (OEPA) with sulfur dioxide (SO<sub>2</sub>) emission limits of 2.0 pounds SO<sub>2</sub>/million British thermal unit (Btu) of actual heat input. It is expected that SO<sub>2</sub> emission limits will be reduced to 1.33 pounds SO<sub>2</sub>/million Btu of actual heat input which would be difficult for the existing boiler to achieve without the addition of extensive pollution control equipment. New sources of emissions are required to install Best Available Technology (BAT) to control their emissions. They must also comply with applicable federal New Source Performance Standards (NSPS) which limit SO<sub>2</sub> emissions to 1.2pounds/per million Btu of actual heat input. Therefore any plan to modify or replace the existing coal-fired boiler with other types of coal-fired boilers must fully consider the cost of meeting these requirements.

Steam is used for both heating and cooling in the administrative areas and will be required in both the former process area and in other non-process areas to support remediation. The new boiler plant will

provide a cost-effective, environmentally sound, and reliable supply of steam to meet the FEMP's need through the year 2020.

**Description of Proposed Action**

The new boiler plant will be a steel-framed, pre-fabricated building measuring approximately 80 ft. x 50 ft. The foundation will consist of reinforced concrete with required power and utilities. Construction of the new building will comply with all applicable codes and standards for this type of building.

Three new natural gas-fired packaged steam boilers will be purchased and installed in the building. These boilers will provide a reliable source of saturated steam to meet present and future requirements at the FEMP. The new smaller boilers will be prepackaged units and will have diesel fuel back-up.

The proposed action will also involve the relocation of a 75,000 lbs/hr gas-fired boiler from its existing location along Second Street, north of Plant 4, to the new boiler facility. This will require the disconnection of existing piping and electrical systems at the current boiler location. The boiler will be removed from its current position on a trailer and mounted on a reinforced concrete foundation. Upon boiler relocation to the new building, utilities will be reconnected and the exhaust stack will be extended to an elevation above the new boilerhouse roof.

The Building will be constructed in the previously disturbed process area. Therefore, no sensitive resources (e.g., wetlands, floodplains, cultural resources) will be impacted during construction of the building. Excavation of soils for the foundation of the building will be appropriately managed under Removal Action No. 17, Improved Storage of Soil and Debris. Other debris and residues will undergo radiological surveys throughout the project and appropriate personal protective equipment will be donned when required.

Air Permits to operate the gas fired boiler, generator, and air compressors will be obtained to comply with the Clean Air Act. Asbestos encountered in the forms of transite siding and pipe insulation would be managed under the FEMP Asbestos Program. Silencers will be installed on the Boilers to control noise. Generation of blowdown water will be routed to the AWWT for treatment.

A new natural gas line, sized to provide ample gas supply, will be routed underground from Willey Road to the existing pipe rack at Building 51 (AWWT). The gas line will then be continued aboveground on the Building 51 rack to the new Boiler Plant Facility.

*bb* The installation of the pipeline will occur outside of the former Process Area. However, the pipeline will be installed in an area which has been previously surveyed for Cultural Resources. The results of the surveys determined that no cultural resources are present in the route of the pipeline. In addition, no wetlands, floodplains or other sensitive resources will be impacted due to the installation of the pipeline.

**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 Assessment or Environmental Impact Statement.

The Final Rule and Notice specifically lists in Part 1021, Appendix B to Subpart D, Sec. 1021.410, B1.15, B1.16, and B1.22, the following as types of actions that are Categorical Exclusions applicable to Specific Agency Actions:

B1.15 Siting, construction and operation of small-scale buildings and support structures (including prefabricated buildings and trailers) and/or small-scale modifications of existing buildings or structures, within or contiguous to an already developed area (where site utilities and roads are available). Covered support buildings and structures and/or services; education and training; visitor reception; computer and data processing services; employee health services or recreation activities; routine maintenance activities; storage of supplies and equipment for administrative services and routine maintenance activities; security (including security posts); fire protection; and similar support purposes, but excluding facilities for waste storage activities, except as provided in other parts of this appendix.

B1.16 Removal of asbestos-containing materials from buildings in accordance with 40 CFR part 61 (National Emission Standards for Hazardous Air Pollutants), subpart M (National Emission Standards for Asbestos); 40 CFR part 763 (Asbestos), subpart G (Asbestos Abatement Projects); 29 CFR part 1910, subpart I (Personal Protective Equipment), § 1910.134 (Respiratory Protection); subpart Z (Toxic and Hazardous Substances), § 1910.1001 (Asbestos, tremolite, anthophyllite and actinolite); and 29 CFR part 1926 (Safety and Health Regulations for Construction), subpart D (Occupational Health and Environmental Controls), § 1926.58 (Asbestos, tremolite, anthophyllite, and actinolite), other appropriate Occupational Safety and Health Administration standards in title 29, chapter XVII of the CFR, and appropriate state and local requirements, including certification of removal contractors and technicians.

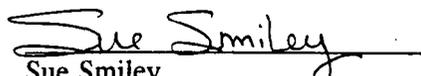
B1.22 Relocation of buildings (including, but not limited to, trailers and prefabricated buildings) to an already developed area where site utilities and roads are available and demolition and subsequent disposal of buildings and support structures (including, but not limited to, smoke stacks and parking lot surfaces).

This Categorical Exclusion is appropriate since the proposed action will involve the construction of a prefabricated building to house the new and existing boilers and the relocation of an existing trailer-mounted gas-fired boiler located north of Plant 4. The proposed action will not violate applicable statutory, regulatory, or permit requirements; it will not require siting and construction nor major expansion of waste disposal, recovery or treatment facilities; and it will not impact any environmentally sensitive areas (e.g., wetlands, floodplains, cultural resources or the sole-source aquifer).

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.

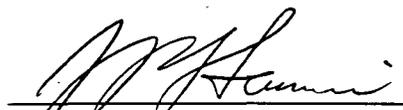
Concurrence:

  
Sue Smiley  
NEPA Compliance Officer

Date:

5/24/95

Approval:

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

Date:

5/25/95

FERMCO NEPA CHECK LIST FOR CATEGORICAL EXCLUSIONS

PROJECT: Boiler Plant Replacement		CX NO.: 470
DATE: 4/28/95	PROJECT ENGINEER: Doris Edwards	PHONE: 738-9051

**BRIEF DESCRIPTION OF PROJECT/ACTIVITY:**

*This project involves the construction of a new, prefabricated boiler plant facility at the Fernald Environmental Management Project. The new boiler plant will require three new gas-fired boilers and the relocation of an existing trailer-mounted boiler to the new facility. A new gas line will also be installed to the boiler plant.*

ENVIRONMENTAL CONSIDERATIONS	YES	NO	COMMENT/RESPONSE
1. Air emissions	X		PTI & PTO will be obtained for the boilers
2. Liquid effluent	X		Blowdown water will be routed to the AWWT for treatment
3. Waste generation		X	
4. Radioactive material/soil	X		Excavated soil for the building foundation will be managed under RA#17
5. Hazardous/Mixed waste		X	
6. Building/Utility modification	X		A prefabricated building will be placed north of Bldg.51
7. Chemical storage/use	X		Diesel fuel will be stored in above-ground tanks on the exterior of the building
8. Asbestos material	X		Asbestos material encountered in the forms of transite siding and pipe insulation will be managed under the FEMP Asbestos Program
9. Clearing of habitat		X	
10. Excavation	X		Soil will be excavated for placement of the building foundation
11. Archaeological/Cultural Resources		X	
12. Noise levels	X		Silencers will be placed on the boilers to achieve OSHA standards of <85dBA
13. Pesticide/herbicide use		X	
14. Permit Required	X		Appropriate air permits will be obtained
15. Transportation issues		X	
16. Special status species/environment		X	
17. Wetland/Floodplain		X	
18. Other			

Prepared By: Craig A. Straub

Date: 4/28/95

NRM Manager:

*w. E. Wood*