

SECTION J - LIST OF DOCUMENTS, EXHIBITS AND OTHER ATTACHMENTS

ATTACHMENT 1

STATEMENT OF WORK

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SECTION C

DESCRIPTION/SPECIFICATIONS/WORK STATEMENT

STATEMENT OF WORK

CONTRACT FOCUS

This is a cost-plus-incentive fee (CPIF) completion contract (excluding transition), that also includes schedule driven performance incentives as described herein. The period of performance will begin at contract award and extend through site completion, as described in the Statement of Work (and in accordance with the Natural Resources Restoration Plan and the Fernald Environmental Management Project (FEMP) Baseline), which is anticipated to be December 31, 2010. The primary focus is to complete remediation, restoration, and closure of the FEMP. The Contractor's capabilities shall include the ability to manage, integrate, and implement environmental remediation, restoration, and waste management activities involving radioactive and hazardous waste.

C-1 BACKGROUND

The FEMP is a 1,050-acre former uranium metals production facility located about 18 miles northwest of Cincinnati, Ohio. It was built in 1951 to produce high-purity uranium metals in support of national defense programs. This was accomplished by chemically and physically purifying feed materials and converting them into uranium metal.

The site consists of three primary areas: the former production area, the waste storage area, and adjacent forest/pasture land. The production area is a 136-acre tract located at the center of the site where physical and chemical uranium processes occurred. The waste storage area is located west of the production area and is where most of the processing wastes were deposited. Contaminants from material processing and related activities were released into the environment through air emissions, wastewater discharges, storm water runoff, leaks and spills.

Production at the FEMP was terminated in 1989, with responsibility for the plant transferring to the Office of Environmental Management from the Office of Defense Programs in October 1990. The site mission officially became environmental restoration in August 1991. Since that time, the FEMP workforce has been dedicated to environmental remediation and waste management activities.

The primary regulatory driver at the FEMP is the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) as amended by the Superfund Amendments and Reauthorization Act in 1986.

On June 29, 1990, the U.S. EPA and the U.S. DOE entered into a Consent Agreement (the 1990 Consent Agreement, CA) which amended the provisions relating to the completion of the Remedial

Investigation/Feasibility Study (RI/FS) and remedial action of the Federal Facility Compliance Act (FFCA) of July 18, 1986, to meet the requirements of Section 120 on CERCLA for any facility on the National Priorities List (NPL). On September 20, 1991, the U.S. EPA and U.S. DOE jointly signed the Amended Consent Agreement (ACA) that established revised milestones. The Ohio EPA and DOE signed a Consent Decree on December 2, 1988 that established milestones to bring the FEMP into full compliance with the Resource Conservation and Recovery Act (RCRA) and other regulatory requirements. The amended Consent Decree was signed in February 1993.

The CA subdivided the site into five Operable Units (OU), with detailed remediation schedules identifying 11 removal actions. Final Records of Decision (RODs) for Operable Units 1, 2, 4, and 5 were completed in 1995 and early 1996. A ROD for OU-3 was issued in 1997, completing the RI/FS study phase of the project. Technical difficulties with the materials of construction of the vitrification pilot plant melter caused a renegotiation of the OU-4 milestones in 1997. The Final ROD Amendment for OU-4 was approved by the U.S. EPA in July 2000. The focus for the FEMP has turned from assessment and characterization to actual cleanup activities.

Cleanup activities for the Site are contained in the FEMP Baseline. FEMP baselines and/or cost estimates (i.e., since 1991) have been subject to rigorous review and/or validation efforts by a number of review teams both internal and external to the DOE. Based upon the results of these reviews, the information contained within the baseline accurately reflects the work scope as currently planned and, therefore, forms the basis for the Statement of Work as outlined below.

C-2 GENERAL MANAGEMENT AND OVERSIGHT

The Contractor shall be responsible for the following:

- a) Performing the work and services described in this contract including the utilization of information, material, funds, and other property of the Government; the collection of revenues; and the acquisition, sale, or other disposal of Government property for DOE. The Contractor shall perform work and services under the terms and conditions of this contract and in accordance with such directions that the Contracting Officer may deem necessary to give to the Contractor. Subject to contract terms and conditions and to Contracting Officer direction and instructions, if any, the Contractor shall use its best judgement, skill, and care in all matters pertaining to the performance of this contract.
- b) Planning, integrating, managing, and executing the programs, projects, operations and other activities as described in this Statement of Work, such that all functions are fully integrated. The Contractor shall furnish or cause to be furnished all personnel, facilities, equipment, material, services, and supplies (except as may be expressly set forth in this contract to be furnished by the Government), and otherwise do all things necessary for, or incident to, carrying out the work in a safe, effective, and efficient manner. For more information on Government Furnished Property refer to Attachment 4 of Section J.

- c) Providing general oversight of program management functions that include but are not limited to: legal services, audit services, business systems management, human resources, property management, information resources, financial support, safeguards and security, public information and external communication activities, intergovernmental affairs, training, procurement, and industrial relations. In addition, the Contractor is responsible for the operations, environment, safety, health and quality assurance within its own organization and its subcontractors' organizations. Also, the Contractor shall maintain project/program management records, tracking, reporting and control documents for the FEMP program, including project baselines, resource loaded schedules, life cycle planning packages, performance metrics and change control systems. Ownership of project/program management records and Change Control Board records shall remain with DOE.
- d) Performing all work activities safely. The Contractor shall be fully responsible and accountable for the safe accomplishment of all work, whether performed by its own personnel or subcontractors and the Sitewide implementation of Integrated Safety Management in accordance with applicable DOE requirements.

C-3 ENVIRONMENTAL MANAGEMENT PROGRAM

The DOE Environmental Management (EM) Program mission is to remediate inactive facilities; release or potentially release DOE sites contaminated with radioactive, hazardous, and mixed waste; and ensure that risks to human health and to the environment posed by DOE facilities are eliminated or significantly reduced. Accomplishment of this mission requires remedial actions and decontamination and decommissioning cleanup activities for these facilities and sites.

EM Project Management System:

The Contractor is responsible for planning, procuring, managing, integrating, and performing the actions necessary to accomplish the EM program for the FEMP. In order to accomplish the EM program the Contractor shall be responsible for:

- Program Planning and Budgeting: Program planning shall include development and implementation of systems that include life cycle baselines (including detailed cost, schedule, and technical scope data), management plans, effective change control process, and prioritization and sequencing of tasks for successful project completion. These systems shall be capable of integrated tracking and reporting of obligations, costs, staffing and other data necessary to measure the progress and status of site mission activities. (The Contractor shall also be responsible for providing data and support to the DOE-FEMP in order to achieve the data and reporting requirements of the Integrated Planning, Accountability, and Budgeting System Handbook (IPABS, February 1999), and the IPABS-Information System (IPABS-IS, December 1998)).

- **Program and Contract Administration:** Because it is envisioned that the Contractor will accomplish work through various subcontractors, the Contractor shall develop and maintain a procurement and contract administration system to perform this function in an effective and efficient manner. The goal of this process is to achieve integrated performance resulting in best value to the Government.

NOTE: Refer to the clause entitled "Self-Performance" in Section H for additional information on subcontracting.

- **Work Breakdown Structure (WBS):** Development of a WBS based on projects consistent with the DOE budget structure which will cover all EM program activities at the site. The WBS will provide the basis for planning, budgeting, execution, evaluation, and validation of work activities.
- **Baseline Development and Management:** Preparing and submitting to DOE for approval, within six months of contract award, a revised baseline which: a) reflects changes to the baseline based upon a "Due Diligence Review" (i.e., a review of the baseline for consistency, accuracy, and completeness), and/or b) revises the baseline based upon guidance from DOE with respect to the funding profile. In addition to the revised baseline a certified cost proposal will be submitted concurrently.

The systems and processes discussed above are currently in use at the FEMP. It is not envisioned that there will be significant replacement of these systems; however, the DOE is receptive to new and innovative approaches which will reduce the administrative burden and increase the effectiveness of this project.

C-4 ENVIRONMENTAL RESTORATION

C-4.1 Compliance Drivers:

The overall SOW for the FEMP has been defined and agreed to in the Consent Agreement, the Amended Consent Agreement, the Consent Decree, (discussed above) and in other regulatory documents. In summary, these documents are:

CERCLA/RCRA/Clean Air Act (CAA)

In 1986 per the Federal Facility Compliance Agreement, the DOE and U. S. EPA agreed that DOE should conduct a RI/FS and implement Initial Remedial Measures, in accordance with guidelines under CERCLA, to determine the nature and extent of contamination both on and off the FEMP site. The investigation was consistent with applicable EPA guidance documents. It was further agreed that DOE would undertake particular activities within stated time frames to bring the FEMP into compliance with, and maintain compliance with, the Clean Air Act (CAA) and RCRA.

CAA (NESHAP) - Federal Facility Agreement (FFA)

Federal Facility Agreement (FFA), Control and Abatement of Radon-222 Emissions, signed November 19, 1991, ensures that DOE take all necessary actions to control and abate Radon-222 emissions at the FEMP. This agreement acknowledges that the K-65 Silos (Operable Unit 4) exceed the radon emission of 20 pCi/m²/sec, but allows the FEMP to address this exceedance by implementing a removal action to bring radon emissions from the silos to a level as low as reasonably achievable (ALARA), and to attain the National Emissions Standards for Hazardous Air Pollutants (NESHAP) Subpart Q standard upon completion of final remediation. The FFA also requires demonstration of compliance with the Subpart Q standard (upon completion of remedial actions) for the waste pits, Clearwell, and any other source found to emit radon in excess of 20 pCi/m²/sec.

Per an agreement made with the U. S. EPA and OEPA in January 1996, continuous air monitoring data in selected on-site areas must be submitted in quarterly progress reports.

RCRA (FFCAct) - Director's Final Findings and Orders (DF&O)

Enacted October 6, 1992, the Federal Facilities Compliance Act (FFCAct) required the Secretary of Energy to develop and submit to the OEPA, for review and approval, approval with modifications, or disapproval, a site treatment plan (STP) for the development of treatment capacities and technologies to treat all of the mixed waste at the Facility. In addition, the objective of the Act was threefold: (1) to bring all federal facilities into compliance with applicable federal and state hazardous waste laws, (2) to waive federal sovereign immunity under those laws, and (3) to allow the imposition of fines and penalties.

RCRA/CERCLA - Director's Final Findings and Orders

The DF&O issued by the OEPA on June 6, 1996 contained provisions which exempted the FEMP from obtaining a hazardous waste installation and operation permit for hazardous waste storage activities identified in the RCRA Part A/B Permit Application provided that the FEMP comply with the terms of the permit application and other applicable OEPA hazardous waste laws and regulations.

RCRA - Director's Final Findings and Orders

On September 10, 1993, OEPA Director's Findings and Orders (OEPA 1993), were issued outside of the CERCLA process. These orders required the groundwater monitoring at the

FEMP's property boundary to satisfy RCRA facility groundwater monitoring requirements. The agreement required the sampling of 33 property boundary wells on a quarterly basis for a suite of prescribed constituents. The DOE proposed revised language for the DF&O which required DOE to follow the monitoring program described in the Integrated Environmental Monitoring Plan (IEMP) or future revisions to the IEMP. The revised language allowed DOE and the U. S. EPA to modify the groundwater monitoring program as necessary without issuance of a new order.

CWA - Director's Findings and Orders

In May 1987, the OEPA issued the amended DF&O detailing certain scheduled compliance actions to be completed at the FEMP. The DF&O consisted of 15 findings and 18 orders which DOE must address. Examples of some of the orders documented include: 1) the installation of a new liner in the Bionitrification Surge Lagoon by October 1, 1988; 2) removing the sediments accumulating in the Bionitrification Surge Lagoon and storm water retention basin on a routine basis; and 3) submitting to OEPA for its review a contingency plan describing actions which will be taken to investigate and minimize the environmental impacts to Paddy's Run, and other portions of the bypass of the storm water retention basin currently installed at the FEMP.

C-4.2 Work Scope Definition:

The remediation work activities to be performed at the FEMP are driven primarily by CERCLA, and implemented through the ACA with the U.S. EPA. This agreement subdivided the site into five Operable Units (OU) and each OU has a signed Record of Decision (ROD) which outlines the required cleanup activities and schedules.

In March 1995, DOE-FEMP proposed to accelerate the cleanup of the Fernald site from approximately 25 years to 10 years. In August 1996, DOE-HQ approved an accelerated plan which began in FY-1996 and ended in FY-2005. In December 1999, the DOE-FEMP submitted a revised *Accelerating Cleanup: Paths to Closure* document which reflects the complete remediation of source contamination by FY-2008.

The activities, along with their associated schedules, necessary for Site closure are contained in the FEMP Baseline. A site is considered closed when deactivation or decommissioning of all facilities currently in the EM Program has been completed, excluding any long-term surveillance and monitoring; the source term, as established by comprehensive site-wide characterization, has been remediated in accordance with regulatory requirements; ground water contamination has been contained, and long term treatment or monitoring is in place; nuclear material has been stabilized and/or placed in safe long term storage; legacy waste (i.e., waste produced by past nuclear weapons production activities, with the exception of high-level waste) has been disposed in an approved manner; and there is no enduring Federal presence on the site, except for stewardship activities.

The activities described and summarized below are grouped together for the purpose of defining Legacy Facility Completion and Site Completion. Closure for these remediation activities will include the physical completion of field activities in accordance with regulatory requirements such as Records of Decision, Remedial Design/Remedial Action Work Plans, the Natural Resources Restoration Plan, and other applicable requirements. The Contractor shall refer to the FEMP Baseline for current project specific milestones and schedules and shall adhere to milestone schedules therein. If funding levels adversely effect regulatory milestone dates or commitments, the DOE Contracting Officer must be notified in writing at least 60 days in advance. Post Site Completion is also discussed below but it is not part of this contract.

Completion of Legacy Facility Completion and Site Completion does not include completion of follow-on demobilization and regulatory reporting requirements. It does include, however, formal Contractor notification to DOE of project completion, and DOE concurrence and validation that such completion has been achieved.

C-4.2.1 Legacy Facility Completion

In order to achieve "Legacy Facility Completion," the following activities must be completed by December 31, 2006:

- Complete decontamination and decommissioning (D&D) of buildings and disposal of associated debris including the IAWWT and possibly, the Sludge Dewatering Facility (except for Silos 1 and 2 treatment facility and the Advanced Wastewater Treatment (AWWT) Facility)
- Remediate and dispose of material in the waste pits and other waste units
- Complete removal of materials from Silos 1 and 2 (Accelerated Waste Retrieval)
- Remediate and dispose of Silo 3 contents
- Remediate and dispose of soils (except those associated with Silos and AWWT areas)
- Remove and complete final disposition of nuclear materials and uranium waste (including low level waste and mixed waste)
- Complete installation of infrastructure for remediation of groundwater
- Continue to treat uranium contaminated wastewaters in the AWWT Facility
- Close Onsite Disposal Facility (defined by capping cells 1 through 7)
- Complete treatment and off-site disposal of Silos 1 and 2 material
- Plan for Long Term Stewardship activities

C-4.2.2 Site Completion

The following activities must be completed by December 31, 2010 in order to achieve "Site Completion":

- Complete D&D of Silos 1 and 2 treatment facility and all structures associated with the Silos project (debris transported off-site or place in re-opened Onsite Disposal Facility)
- Complete D&D of Sewage Treatment Plant
- Complete Silo area soil remediation (i.e., Area 7, with the exception of soils associated with the facilities described in Section C-4.2.3 Post Site Completion)
- Plan for Long Term Stewardship activities
- Continue operations of groundwater extraction wells and treatment through the AWWT Facility

C-4.2.3 Post Site Completion

The following activities define "Post Site Completion Activities" (i.e. Long-Term Stewardship) which will take place Post December 31, 2010:

- Complete groundwater remediation
- Complete D&D of the AWWT Facility and SPIT Facility and associated groundwater infrastructure
- Complete soil remediation associated with the AWWT Facility (debris transported off-site or placed in re-opened Onsite Disposal Facility)
- Complete D&D of the Boiler Plant, the stormwater collection control systems and corridor piping, and the old outfall line

Note: Dates for final disposition of the various water treatment facilities are subject to change because of the requirement for regulatory concurrence with respect to completion.

C-4.3 Project Baseline Summaries:

The overall Statement of Work (SOW) for the FEMP is funded through the Closure Fund by Congress through DOE-HQ-EM and is defined in terms of Project Baseline Summaries (PBS's). The PBS's are the main source of summary EM Project information needed to support planning, budgeting, execution, and evaluation. Information in the PBS's are updated on varying schedules to meet EM business process needs.

- **Planning:** The PBS's provide a summary of the EM Project life-cycle baseline, including project scope, technical approach, end point/end state, assumptions, interfaces with other projects, performance measures, schedule, and cost. Life-cycle baseline information in the PBS's will be updated annually to be consistent with the project baseline.

- **Budgeting:** The PBS's contain the necessary information to support the Federal budget process and justify the budget, including planned accomplishments, funding requirements, and performance measures associated with the funding requirements. Budget information in the PBS's is typically updated twice per year.
- **Execution:** The PBS's define EM Project execution information including planned execution year work scope, costs, and execution year management commitments, which includes the EM Corporate Performance Measures and major milestones. Execution information in the PBS's is typically established at the beginning of each fiscal year.
- **Evaluation:** The PBS's outline EM Project performance information, including milestone status, actual costs, performance measures actuals, and execution/variance information.

At the FEMP, there are 13 PBS's with one (PBS-09) already complete. Eleven (11) PBS's are active through completion of the work activities as defined in the ROD's. An additional PBS (PBS-13) describes the activities at the FEMP (i.e., Long Term Stewardship) that are to occur after meeting the requirements of the ROD's. The PBS structure will form the basis for definition of work activities in this SOW.

In an attempt to reduce confusion between the EPA Operable Unit terminology and the DOE PBS terminology, the following cross reference is applicable:

OU-1	Clearwell, burn pit, and the waste pits	PBS 5
OU-2	Solid waste landfill, lime sludge ponds, flyash piles and other South Field disposal areas	PBS 3 and part of PBS 6
OU-3	Former production area and associated facilities and equipment	PBS 1 and PBS 2
OU-4	Silos 1, 2, 3, and 4	PBS 7
OU-5	All environmental media including soil, surface water and sediment, groundwater, plants, and animals	PBS 4 and part of PBS 6

Waste Management is not an OU but is contained in PBS's 8, 10, and 11

Program Support and Oversight is PBS 12

Each of the 13 PBS's is defined as follows:

PBS-1	Facility Shutdown and Project Support
PBS-2	Facility Decontamination and Decommissioning
PBS-3	On-Site Disposal Facility
PBS-4	Aquifer Restoration
PBS-5	Waste Pits
PBS-6	Soils
PBS-7	Silos
PBS-8	Nuclear Materials
PBS-9	Thorium Overpack (This PBS is complete).
PBS-10	Waste Treatment/Mixed Waste
PBS-11	Waste Management
PBS-12	Program Support and Oversight
PBS-13	Outyear (Long Term Stewardship activities)

Work activities for which the Contractor will be responsible are presented below in a summary format for each of the PBS's. For detailed information regarding each PBS, refer to the FEMP Baseline, the revised *Accelerating Cleanup: Paths to Closure* (draft December 1999), as well as other documents referenced in this SOW.

PBS-01: FACILITY SHUTDOWN AND PROJECT SUPPORT

The mission of Facility Shutdown and Project Support is to provide all activities necessary to shut down facilities and make them ready for Decontamination and Demolition. Additionally, this area provides services to operate the site in support of environmental restoration program needs. Services include but are not limited to: providing utilities, i.e., electricity, steam, potable and process water, compressed air, providing maintenance support, e.g., maintaining all mobile equipment, housekeeping duties for both the former process and administrative areas, preventative maintenance, roads, and grounds repair; providing transportation services; providing procurement and contracting services; providing surveillance/inspection of all buildings; and providing physical and personnel security services to the site.

Expected Status at Contract Award:

All required shutdown and project support activities implemented/functional.

Expected Status as of Paths to Closure Date:

Minimal project support activities required (such as maintenance, grounds repair, and utilities).

Regulatory and Stakeholder Commitments/deliverables:

Not applicable.

Principal Contaminants:

Uranium, Asbestos and Metals (Mercury and Lead)

Significant and Anticipated Subcontract Efforts:

Unitech Services Group - Base - \$1,355,655 (estimated); Option 1 - \$1,457,897 (estimated); Option 2 - \$1,812,972 (estimated)

Contract Period of Performance - Awarded on September 30, 1999 for one year with two - one year options

Scope - Provide laundry services for both regular and contaminated clothing as well as respirator cleaning and repair service.

Labor Hour Support Contractor - Base - \$1,000,000 (estimated)

Contract Period of Performance - Anticipated period of performance - November 30, 2000 through November 30, 2001.

Scope - The subcontractor shall furnish construction, administrative, and supervisory labor on an "as required" basis to perform construction, remediation, and decontamination and dismantling work.

PBS-02: FACILITY DECONTAMINATION AND DEMOLITION

The scope of Facility Decontamination and Demolition (D&D) consists of the production area and production associated facilities and equipment (all above and below-grade improvements) including, but not limited to, all structures, equipment, utilities, drums, tanks, solid waste, waste products, thorium, effluent lines, K-65 transfer line, wastewater treatment facilities, fire training facilities, scrap metal piles, feedstocks, and coal pile. All manmade facilities within the Fernald production area, encompassing approximately 273 structures, are included in this OU. The OU-3 Record of Decision for Interim Action calls for the D&D of all above- and below-ground improvements, including buildings and support structures, to reduce any potential threat posed by these facilities. The general scope for each D&D project includes the planning, design, procurement, field preparation, subcontractor oversight, debris management, and project close-out activities. Approximately 5.5 million bulked cubic feet of debris is expected to be generated by Facilities D&D of which approximately 5.1 million bulked cubic feet is destined for the OSDF, approximately 309,000 cubic feet is destined for burial as low level waste at the Nevada Test Site, and approximately 74,000 cubic feet is mixed waste.

Expected Status at Contract Award:

When the new contract is awarded, it is anticipated that approximately 90 of the 273 structures at the FEMP will have been completely D&D. Also, approximately 1,620,000 cubic feet of debris will have been generated during Facility D&D and disposed of in the OSDF. A minimal quantity of low level waste and mixed waste will have been disposed of off-site with the exception of approximately 2,400 tons of material recycled off site.

Expected Status as of Paths to Closure Date:

Remedial action will be completed and closed per the CERCLA process.

Regulatory and Stakeholder Commitments/deliverables:

- OU-3 ROD for Interim Remedial Action, June 1994
- OU-3 ROD for Final Remedial Action, August 1996
- RD/RA Work Plan, May 1997
- Implementation Plan for Plant 5 (April 1999) & Plant 6/East (July 1999) Warehouse Complexes
- OU-3 Closure documentation per CERCLA Process.
- OU-3 remaining Implementation Plan per RD/RA Work Plan.

Principal Contaminants:

Historical information and process knowledge indicate that the primary radiological contamination in OU-3 consists of uranium, thorium, radium, and the associated daughters, including isotopes of lead and neptunium, plutonium, technetium, strontium, cesium, and americium.

Current data on chemical contamination within OU-3 is based on chemical analyses and process knowledge for the 37 years of operations. This data is largely qualitative in nature, and is presented in the OU-3 RI/FS Work Plan Addendum.

Principal chemical contaminant groups of concern are trace metals, other inorganics, volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), asbestos, polychlorinated biphenyls (PCBs), and other materials such as oils used for lubricating and heat treating.

Mixed wastes are hazardous (RCRA) wastes that also include radiological contaminants. Based on past materials handling practices and potential chemical contaminants, some of the materials and wastes associated with OU-3 facilities may fall into the category of mixed waste.

Significant and Anticipated Subcontract Efforts:

MACTEC - \$8,685,510 (base); Option 1 - \$61,503; Option 2 - \$42,457

Contract Period of Performance - Awarded on April 22, 1999 with completion required by May 26, 2001

Scope - D&D of Plant 5 - Work activities include surface decontamination, dismantlement, segregation, cutting, and containerizing all equipment, systems, and structures that are above grade. Work is performed in a radiological contaminated environment and includes asbestos and chemical hazardous materials.

MACTEC - \$8,530,949 (base);

Option 1- D&D of elevated water tank; \$26,998

Option 2- D&D of pipe bridges; \$97,154

Option 3- D&D of Building 82A; \$17,077

Option 4- D&D of Building 77; \$10,722

Option 5- D&D of Building 79; \$16,082

Option 6- Oversize equipment credit; (\$40,078)

Note- Options may be unilaterally exercised no later than May 31, 2001.

Contract Period of Performance - Awarded initially on September 24, 1999 to NSC Energy Services with completion required by April 9, 2002. MACTEC assumed responsibility and contract performance in September 2000.

Scope - D&D of Plant 6 - Work activities include surface decontamination, dismantlement, segregation, cutting, and containerizing all equipment, systems, and structures that are above grade. Work is performed in a radiological contaminated environment and includes asbestos and chemical hazardous materials.

PBS-03: ON-SITE DISPOSAL FACILITY

The On-Site Disposal Facility (OSDF) is an engineered disposal facility, located near the eastern edge of the FEMP property boundary, designed to accept only FEMP contaminated soil and debris meeting specified waste acceptance criteria (WAC) outlined in the five OU ROD's. The 2.5 million cubic yard facility is designed for seven disposal cells, with a contingent eighth cell. The footprint to be used for waste disposal is approximately 70 acres with a total facility area of 140 acres, including the buffer zone.

Construction of the OSDF began in July 1997. Each of the OSDF disposal cells is composed of a five (5) foot thick liner system, including a leachate collection system, leak detection system, ground water monitoring wells, and a multi-component cap designed to limit water infiltration and biointrusion. Approximately 85% of the waste material to be disposed of in the OSDF will be soil and 15% will be debris. For additional details on the design of the OSDF, refer to the various design documents which are outlined below.

Expected Status at Contract Award:

The final design for the OSDF was completed in May 1997. The construction of Disposal Cell 1 began in July 1997, Cell 2 in the summer of 1998, and Cell 3 in the summer of 1999. Currently, Cells 2 and 3 are open and accepting waste with greater than 500,000 cubic yards of material in place by November 2000. Cell 1 is 100% filled, including the completion of the select material layer. Capping of Cell 1 should begin in calendar year 2001. Also, the enhanced Permanent Leachate Line system will be completed by April 2001. (The Permanent Leachate Line transports leachate from the OSDF to the Advanced Wastewater Treatment Facility for treatment.)

Expected Status as of Paths to Closure Date:

By September 30, 2006, it is envisioned that all waste placement and final capping will be complete for the OSDF (Cells 1 through 7).

Regulatory and Stakeholder Commitments/deliverables:

- Final FS Report for OU-2, March 1995
- Final ROD for OU-2, May 1995
- Final Design for OSDF, May 1997
- Final Design OSDF Support Plans:
 - Borrow Area Management and Restoration Plan, July 1999
 - Surface Water Management and Erosion Control Plan, July 1999
 - Construction Quality Assurance Plan, July 1999
 - Impacted Material Placement Plan (Waste Placement Procedure), July 1999
 - Systems Plan, July 1999
 - Post- Closure Care and Inspection Plan, July 1999
 - Groundwater/Leak Detection and Leachate Monitoring Plan, July 1999
- Waste Acceptance Criteria Attainment Plan for the OSDF, June 1998

Principal Contaminants:

The principal contaminants are uranium, thorium, and radium.

Significant and Anticipated Subcontract Efforts:

TBD - TBD

Contract Period of Performance - Anticipated to be awarded by November 2000.

Scope - Construction of cap for OSDF Cell 1.

PBS-04: AQUIFER RESTORATION

PBS-04, Aquifer Restoration consists of the following projects:

- 1) Aquifer Restoration and Wastewater Project
- 2) Environmental Monitoring
- 3) Sample and Data Management
- 4) Analytical Laboratory Services

The Aquifer Restoration and Wastewater Project (ARWWP) constitutes the remediation (as defined in the OU-5 ROD) of that portion (approximately 180 acres) of the Great Miami Aquifer (GMA) which underlies and is south of the FEMP which has become contaminated with uranium as a result of past operations. The wastewater portion of this project consists of the operations and maintenance activities associated with the Advanced Wastewater Treatment (AWWT) Facility, satellite treatment facilities (i.e., Interim AWWT Facility and South Plume Interim Treatment Facility (SPIT)), the Sewage Treatment Plant, the AWWT Sludge Dewatering Facility, the Storm Water Retention Basins, the Bionitrification Surge Lagoon, and the network of groundwater extraction and reinjection wells. In addition, the ARWWP is responsible for the treatment of wastewater to meet discharge requirements established under the National Pollutant Discharge Elimination System (NPDES) permit (as well as the administration of the NPDES program) and meet OU-5 ROD requirements, coordination of sitewide wastewater integration efforts, maintenance of the Spill Prevention Control and Counter Measures Plan and the Stormwater Pollution Prevention Plan, and management of the OSDF leachate conveyance system.

The Environmental Monitoring Program is responsible for the collection of environmental media (ground water, surface water, sediment, air, biota) samples to assess the impacts of remediation activities to the surrounding environment. In addition, the Environmental Monitoring Program is responsible for the execution of the National Emissions Standards for Hazardous Air Pollutants (NESHAP) monitoring and reporting program, management of the site wide well maintenance and abandonment program, and support to remediation projects in the development of project specific sampling plans.

The controlling document for the Environmental Monitoring Program is the Integrated Environmental Monitoring Plan (IEMP) which is issued quarterly as well as one comprehensive annual report. The IEMP provides a remediation-specific focus by concentrating environmental monitoring program elements on remediation activities and by incorporating all regulatory requirements for site-wide monitoring, reporting, and remedy performance tracking that were activated by those applicable or relevant and appropriate requirements (ARAR's) identified in the various OU ROD's.

The Sample and Data Management portion of this project consists of the development of technical scopes of work and contractual requirements for analytical laboratories in support of remediation projects. This includes: providing technical guidance to, and monitoring performance of laboratories during analysis of samples in accordance with project requirements; receiving, packaging, and shipping project samples to off-site laboratories for analysis; receiving and distributing project

samples to on-site laboratories; logging sample tracking data into the Sitewide Environmental Database; performing field, radiological, chemical data verification and validation to ensure compliance with project and regulatory requirements; conducting reviews, assessments, and audits of analytical laboratories to ensure maintenance of quality requirements; developing, managing, and maintaining site remediation data systems; performing electronic data entry and data acquisition functions in support of projects; providing necessary software support for loading of real-time data from field instruments into database systems; and providing Geographical Information System (GIS) and Data modeling support to projects including geostatistical, data kriging, modeling, and cross-section development.

The Analytical Lab Services group provides key expertise, especially in dealing with materials from the FEMP, on radiochemical and chemical analyses, and support on asbestos, and Technicium-99. The group is involved in the generation of data packages to support waste shipping from the Waste Management and the Waste Pit project areas, and for Integrated Environmental Monitoring Project support. The Analytical Lab Services Group also performs records and data management to establish a defensible analysis position; sample screening for field verification of outside lab quality controls; sample shipping and tracking for organics analysis; some IEMP requirements; and support for large quantity service needs.

Expected Status at Contract Award:

Aquifer Restoration and Wastewater Project:

- 1) Ten operational extraction wells in the Southfield (Southfield Phase I System).
- 2) Two operational off-property extraction wells (South Plume Optimization System).
- 3) Four operational off-property extraction wells (South Plume Extraction System).
- 4) Two operational supplemental extraction wells located in the eastern portion of Southfield area.
- 5) Five re-injection wells located in the Southfield.
- 6) AWWT Phase I and Phase II System operating at a nominal 900 gallons per minute (gpm) treating contaminated storm water, groundwater, and remediation wastewater.
- 7) AWWT Expansion System operating at a nominal 1,500 gpm dedicated to groundwater treatment.
- 8) LAWWT System operating at a nominal 250 gpm treating contaminated storm water and groundwater.
- 9) SPIT System operating at a nominal 175 gpm dedicated to treating groundwater.
- 10) Continued operation of the AWWT Sludge Dewatering Facility.
- 11) Continued operation of the Sewage Treatment Plant.

Environmental Monitoring:

Ongoing, consistent with the above description.

Sample and Data Management:

Ongoing, consistent with the above description.

Analytical Laboratory Service:

It is envisioned that the Analytical Lab Services will have relocated into a new functional modular building array located to the south of the Advanced Waste Water Treatment facility and will continue to provide full analytical services. Annual reporting of services provided will be documented in a Laboratory Utilization Plan.

Expected Status as of Paths to Closure Date:

Aquifer Restoration and Wastewater Project:

- 1) Southfield Phase II Groundwater Extraction System must commence operations by October 1, 2003.
- 2) Waste Pit Area and Plant 6 Area Groundwater Extraction Systems must commence operations by October 1, 2003.
- 3) If the Groundwater Re-injection Demonstration is determined to be successful, the Southfield Re-injection System must commence operations by October 1, 2003.
- 4) Items #1 through #11 listed under "Expected Status at Contract Award" will continue to be operational with the possible exception of Item #8 which may cease operations at the end of FY-2005.

Environmental Monitoring:

The IEMP outlines a program that will re-evaluate Environmental Monitoring requirements, based in part on clean up status, every year. It is envisioned that groundwater monitoring, air monitoring, and surface water monitoring will still be required as of September 30, 2006. Post-closure monitoring requirements for the leachate associated with the OSDF is also anticipated.

Sample and Data Management:

Similar to current operations with minimal changes anticipated; the Sample and Data Management Project is generally a support organization whose scope will decrease as projects are completed.

Analytical Laboratory Service:

The Analytical Lab Services is a project support organization, the scope and budget of which will decrease with the completion of specific remediation projects. It is anticipated that these services will not be required after September 30, 2006.

Regulatory and Stakeholder Commitment/deliverables:

Aquifer Restoration and Wastewater Project:

- 1) OU-5 Final ROD, January 1996
- 2) Remedial Design Work Plan for Remedial Actions at OU-5, August 1996
- 3) Remedial Action Work Plan for Aquifer Restoration at OU-5, June 1997
- 4) Baseline Remedial Strategy Report, Remedial Design for Aquifer Restoration, June 1997
- 5) Re-injection Demonstration Test Plan, February 1998
- 6) Operations and Maintenance Master Plan for the Aquifer Restoration and Wastewater Project, April 1999
- 7) Re-injection Demonstration Close Out Report, September 2000
- 8) Continued NPDES sampling and reporting requirements
- 9) Waste Storage Area Extraction System Preliminary Design Package due to U.S. EPA and Ohio EPA by June 15, 2001. Pre-final Design Package due to U.S. EPA and Ohio EPA by November 30, 2001.
- 10) Plant 6 Area Extraction System Preliminary Design Package due to U.S. EPA and Ohio EPA by August 15, 2001. Pre-final Design Package due to U.S. EPA and Ohio EPA by November 30, 2001.
- 11) Southfield Phase II Pre-final Design Package due to U.S. EPA and Ohio EPA by April 2002.
- 12) Southfield Re-injection Pre-final Design Package due to U.S. EPA and Ohio EPA by March 2002.
- 13) Updates as needed to the Operations and Maintenance Master Plan for the Aquifer Restoration and Wastewater Project.

Environmental Monitoring:

Implementation of the Integrated Environmental Monitoring Plan

Sample and Data Management:

Refer to the Site-wide CERCLA Quality Assurance Project Plan (SCQ) for a description of the sampling and analytical requirements (June 1998).

Analytical Laboratory Service:

None.

Principal Contaminants:

Uranium is the primary contaminant. For a full list of contaminants of concern refer to the OU-5 ROD, January 1996.

Significant and Anticipated Subcontract Efforts:

No significant subcontracts.

PBS-05: WASTE PITS REMEDIAL ACTION PROJECT

The Waste Pit Remedial Action Project (WPRAP) is a well defined approximate 38 acre area located in the northwest quadrant of the FEMP site. Liquid and solid wastes generated by various chemical and metallurgical processing operations at the FEMP were stored or disposed in six waste pits and the Clearwell, or burned in the Burn Pit, contained within the boundaries of OU-1. Also, a small amount of characteristic hazardous waste under RCRA may exist in the WPRAP. The primary components of the ongoing remedial action for the waste pits include the excavation of the waste pit contents, waste processing by sorting, crushing or shredding as required, treatment by thermal drying as required to remove moisture to meet disposal facility waste acceptance criteria, management of DOE tender(s), and off-site disposal at a permitted commercial disposal facility. RCRA waste, if encountered, will be treated prior to disposal. Soils (but not waste) capable of meeting the waste acceptance criteria for the OSDF are eligible for disposition within the OSDF. Further requirements include the decommissioning and removal of all associated processing and treatment facilities as well as miscellaneous structures and facilities within OU-1 and the disposition of remaining Operable Unit 1 residual contaminated soils consistent with selected remedies and final remedial levels for contaminated process area soils.

Overall, the remediation of OU-1 will involve the excavation and/or handling of approximately 750,000 cubic yards (1,000,000 tons in-situ) of waste. To achieve this end, the FEMP has: 1) contractually engaged International Technology, Corporation (IT Corp.) as the remedial action subcontractor for the operable unit excavation, material processing and treatment, and loading of railcars; 2) contractually engaged Envirocare of Utah as the permitted commercial disposal facility through a contractual (delivery order) mechanism via the DOE Ohio Field Office; 3) enabled the rail transportation of DOE owned unit trains through a tender with the Union Pacific Railroad and CSX Transportation Company Railroad (CSXT).

Expected Status at Contract Award:

By contract award, the construction of the facilities and railyard will have been completed. The treatment (if required), shipping and disposal of approximately 30 unit trains of OU-1 waste, or 200,000 tons will have been completed.

Expected Status as of Paths to Closure Date:

Remedial Action will be completed.

Regulatory and Stakeholder Commitments/deliverables:

OU-1 Final ROD, March 1995
 Remedial Action Work Plan for OU-1, January 1997
 Remedial Design Work Plan for OU-1, August 1998
 Remedial Action Package for OU-1, July 1999

Principal Contaminants:

Uranium, Thorium, and Arsenic are the primary constituents of concern. Refer to the OU-1 RI Report for a complete listing of contaminants.

Significant and Anticipated Subcontract Efforts:

IT Corporation - \$122 Million

Contract Period of Performance - October 1997 through May 2005

Scope - IT Corp. is the subcontractor responsible for the remediation of the waste pits.

Significant DOE Direct Contracts:

Envirocare of Utah - Estimated value of \$70 Million (includes base and options)

Contract Period of Performance - June 30, 1998 to June 30, 2001; two options on contract; option 1 is for three (3) years and option 2 is for four (4) years.

Scope - Indefinite delivery - indefinite quantity contract; Envirocare is the permitted commercial disposal facility where the waste from this project will be disposed.

Rail Tenders - Estimated value of \$50 Million (includes base and options)

Contract Period of Performance - January 1, 1999 to December 31, 2001 is base period with option for renewal at expiration - unilateral by railroad.

Scope - Indefinite delivery - indefinite quantity; Provide rail transportation via unit trains of DOE owned railcars via a tender with the Union Pacific Railroad and CSXT Railroad.

PBS-06: SOILS PROJECT

The soils project consists of soil remediation (soils project) and the Natural Resource Restoration Program (NRRP).

Soils Project:

The soils project includes the planning and execution of all aspects of soil and at/below grade debris remedial actions, including pre-design characterization, design, in-situ treatment, construction, excavation control monitoring to ensure regulatory compliance, Title III engineering, and certification to final remediation levels.

Construction activities include such tasks as site preparation, at/below grade soil excavation, material segregation, transport to either OSDF or above-Waste Acceptance Criteria storage pile, equipment washing, facility operation, regrading, seeding, dust control, and storm water management. It is estimated that approximately 2.6 million cubic yards of soil will be excavated with approximately 1.1 million cubic yards coming from the former processing area. An estimated 290,000 bulked cubic yards of rubble will be generated during the removal of the at and below grade structures.

Characterization activities include management and operation of all real-time in-situ gamma ray instrumentation necessary to ensure compliance with WAC, hot spot and pre-certification requirements. Characterization activities also include providing direction to the appropriate group (currently Environmental Monitoring Department (PBS-04)) in the collection of physical samples to support pre-design, excavation control, pre-certification and certification efforts as needed. Similarly, the Soils Project ensures that all data collected supporting soil remedial actions is entered into the Sitewide Environmental Database.

The Natural Resource Restoration Program:

In April 1998, the Natural Resource Trustees (NRTs) negotiated a tentative settlement to resolve DOE liability for natural resource impacts under Section 107 of CERCLA. In doing so, a path forward was established for natural resource restoration of the Fernald site. This proposed restoration includes 884 acres of the 1,050 acres site, exclusive of the area occupied by the OSDF and the 23 acres being evaluated for economic development by the Fernald Community Reuse Organization. Proposed restored habitat types include upland forests, riparian forests, tall grass prairie/savanna, wetlands and open water. Factors such as existing habitat type, post-excavation topography and drainage were considered when determining the most appropriate habitat for each portion of the FEMP. The proposed natural resource restoration at Fernald has been documented in a conceptual plan, entitled the Natural Resource Restoration Plan. The Natural Resource Restoration Plan provides an overview of the natural resource restoration project designs.

Expected Status at Contract Award:Soils Project:

At contract award, more than 50% of the site will have been certified clean as specified by the contaminant-specific final remediation levels. More specifically the remediation status by area expected is as follows:

<u>AREA</u>	<u>REMEDATION STATUS</u>
Area 1, Phase I	Complete
Area 1, Phase II	Complete
Area 1, Phase III	Complete
Area 2, Phase I	Nearly complete. Excavation/remediation nearly complete. Waiting to perform final remediation work and certification activities coincident with Area 2, Phase II.
Area 2, Phase II	Ongoing. Excavation/remediation design being finalized. Waiting to perform certification activities.
Area 2, Phase III	Complete
Area 8, Phases I, II, and III	Complete (except A8PIII North)
Area 9, Phase I	Ongoing (not included in the above 50% estimate)
Area 3A/4A	Integrated Remedial Design Package (IRDP, submitted to EPA's on March 31, 2000); anticipated to be approved by U.S. EPA and Ohio EPA; IRDP approved. Work to begin in FY2001 construction season by self performance.
Area 3B/4B	Design phase
Areas 5, 6, and 7	Design phase

The Natural Resource Restoration Program:

<u>Restoration Project</u>	<u>Fiscal Year for Design</u>	<u>Fiscal Year for Implementation</u>
Aesthetic Barrier	1998	1998
Wetland Mitigation Phase I	1998	1999
Demonstration Forest	1999	2000
Area 2, Phase I Revegetation	2000	2001
Area 1, Phase I Pine Tree Enhancement	2000	2002

Area 1, Phase III Northern Woodlot	2001	2002
East Paddys Run Corridor	2002	2003
West Paddys Run Corridor	2003	2004
Area 1, Phase II Borrow Area/Area 2, Phase III	2004	2005
Former Production Area	2005	2006
Waste Storage Area	2006	2007
OSDF Buffer	2007	2008

Expected Status as of Paths to Closure Date:

Soils Project:

For Area 3B/4B, the IRDP will be submitted to EPA's by April 1, 2002; Area 5 IRDP to EPA's by July 1, 2002; Area 6 IRDP to EPA's by December 1, 2003; Area 7 IRDP to EPA's by March 31, 2008; and Area 10 IRDP to EPA's by March 30, 2007.

By September 30, 2006, all major excavation and remediation activities will be complete except for Area 7 (Silos) and Area 10 (roads, utilities, pipelines). Similarly, the majority of the site (except Areas 7 and 10) will have been certified clean.

The Natural Resource Restoration Program:

Implementation ongoing. See schedule above for specific activities. It is anticipated that this program will be complete by the end of FY-2008.

Regulatory and Stakeholder Commitments/deliverables:

Soils Project:

See Sitewide Excavation Plan (July 1998) for listing of specific deliverables. Generally, for each soil remediation area, the following must be submitted to U.S. EPA and Ohio EPA and approved prior to their respective field implementation:

- 1) All Integrated Remedial Design Packages.
- 2) All necessary Project Specific Plans needed to conduct pre-design, design, excavation control, hot spot identification and removal, Pre-Certification and Certification.
- 3) All Certification Design Letters (CDL).
- 4) All Certification Reports.

- 5) All area-specific Natural Resource Restoration Design Packages. Please see the discussion and schedule provided for the Natural Resource Restoration Program. The design dates provided in the table would correspond to the submittal of the area-specific NRRP design package.

The Natural Resource Restoration Program:

The regulatory and stakeholder commitments and deliverables are outlined in the draft final Natural Resource Restoration Plan (July 1998). The activities and dates provided are based on year-end completion.

Principal Contaminants:

Uranium is the primary contaminant. See OU-5 ROD (January 1996) or the Sitewide Excavation Plan (July 1998) for a listing of other contaminants.

Significant and Anticipated Subcontract Efforts:

None.

PBS-07: SILOS PROJECT

The overall scope of work for PBS-07 covers the remediation of the material in Silos 1, 2, and 3 consistent with the ROD and the Explanation of Significant Differences (ESD).

The ROD for OU-4 was signed in 1994. However, due to increased cost and a schedule delay in implementing the Remedial Design/Remedial Action (RD/RA), the U.S. EPA and U.S. DOE entered into Dispute Resolution. As a result of the dispute resolution, as required by the ACA, U.S. EPA required U.S. DOE to Amend the ROD and new enforceable regulatory milestones were established.

The Silos Project is organized with three (3) major subprojects as follows:

- 1) Silos 1 and 2 Full-Scale Remediation Project - The scope of the project will be to design, construct, test, train, and remediate consistent with the ROD Amendment.
- 2) Silos 1 and 2 Accelerated Waste Retrieval (AWR) Project - The scope of this project is to design, construct, test, and retrieve the material in Silos 1 and 2 into transfer tanks to be able to move to the future full-scale remediation facility. All other necessary work to support the project will be performed by the prime Contractor. The training of the on-site labor work force will be performed by the AWR subcontractor. The waste retrieval operations are performed by the on-site labor force with technical oversight by the AWR subcontractor. There are approximately 8,000 to 10,000 cubic yards of material to be retrieved from Silos 1 and 2.
- 3) Silo 3 Project - The scope of this project is to design, construct, test, retrieve, treat, and dispose offsite the material in Silo 3 (estimated to be 5,100 cubic yards) consistent with the ESD. Other work necessary to support the project will be performed by the prime Contractor.

Expected Status at Contract Award:

- 1) Silos 1 and 2 Full Scale Remediation Project ROD Amendment - Final ROD Amendment approved by US EPA July 2000.
- 2) Silos 1 and 2 Accelerated Waste Retrieval Project - Construction and installation of Phase I Radon Control System (RCS) continuing. Construction of the Transfer Tank Area, full scale mock-up system, and waste retrieval system continuing. Start-up activities of Phase I RCS ongoing.
- 3) Silo 3 Project:
Ongoing construction of the remediation facility.

Expected Status as of Paths to Closure Date:

- 1) Silos 1 and 2 Full-Scale Remediation Project
 For the status of this project, refer to "Legacy Facility Completion" as defined in Section C-4.2.1 of this Statement of Work
 Post-ROD scope to be determined at a later date.

- 2) Silos 1 and 2 Accelerated Waste Retrieval Project:
 July 2001 - Start Phase I RCS Operation
 December 2002 - Start Waste Retrieval Operation
 October 2003 - Complete Waste Retrieval and Demobilize

- 3) Silo 3 Project:
 December 2001 - Operational Readiness Review
 December 2002 - Complete off-site shipment
 April 30, 2003 - Complete treatment and demobilize

Expected Status by December 31, 2010:

Silos 1 and 2 Full-Scale Remediation Project:

For the status of this project, refer to "Site Completion" as defined in Section C-4.2.2 of this Statement of Work.

Regulatory and Stakeholder Commitments/deliverables:

- 1) Silos 1 and 2 Full-Scale Remediation Project
 Final ROD approved July 2000

- 2) Silos 1 and 2 Accelerated Waste Retrieval Project
 Submit Remedial Design Package to EPAs March 15, 2000 (Completed 2/27/00)
 Submit RCS Phase I Remedial Action Work
 Plan to EPAs March 2, 2001
 Submit Waste Retrieval Operation Remedial
 Action Work Plan to EPAs August 30, 2002

- 3) Silo 3 Project
 Submit Remedial Design Package to EPAs June 1, 2000 (Completed 5/19/00)
 Submit Remedial Action Work Plans to
 EPAs May 2, 2001

Principal Contaminants:

Principal contaminants for the Silos Project are Radium-226, Thorium-230, Lead-210, Lead, Selenium, Chromium, Arsenic, and Cadmium. Please refer to OU-4 Remedial Investigation/Feasibility Study data for additional contaminants of concern.

Significant and Anticipated Subcontract Efforts:

Foster Wheeler Environmental Company - \$51 Million - incrementally funded project

Contract Period of Performance - February 22, 1999 to September 30, 2003

Scope - Design, Construct, Test, and Start of the Radon Control System to support the Accelerated Waste Retrieval activities and future full-scale remediation. Design, Construct, Install, and Test Waste Retrieval and support systems. Retrieve waste from Silos 1 and 2 and provide technical support of waste retrieval operations.

Rocky Mountain Remediation Services (RMRS) - \$17 Million - funding is task based

Period of Performance - December 18, 1998 to April 15, 2003

Scope - Design, Construct, Test, Dismantle the remediation facility and its support systems associated with Silo 3.

PBS-08: NUCLEAR MATERIALS DISPOSITION

Nuclear Materials Disposition (NMD) is responsible for the final disposition of all remaining Nuclear Materials. The approach for dispositioning the Nuclear Materials includes relocation to other DOE sites for storage/programmatic use and/or sale to the private sector. The scope of work includes warehousing, surveillance, planning, packaging, consolidation, preparation, and shipping of the inventory of depleted, normal and enriched Nuclear Materials.

Expected Status at Contract Award:

Much of the inventory will have been repackaged and ready for shipment. Some of the materials (e.g. UF_4 and U_3O_8) will be in the process of being packaged for shipment. Approximately 570 metric tons uranium (MTU) will remain on site as of November 30, 2000.

Expected Status as of Paths to Closure Date:

All NMD will be complete.

Regulatory & Stakeholder Commitments/deliverables:

FEMP committed to the shipment of a minimum of 1,890 MTU of Nuclear Materials to the DOE Portsmouth, Ohio Facility and completed shipment of 1,928.41 MTUs during FY-2000 (October 1, 1999 through September 30, 2000). Also, DOE has committed to U.S. EPA and Ohio EPA that all Nuclear Materials will be off-site by June 1, 2002.

Principal Contaminants:

The Nuclear Materials inventory consists of depleted, normal, and enriched uranium metal (in the form of ingots, cores, and derbies) and uranium compounds (UF_4 , UO_3 , U_3O_8).

Significant and Anticipated Subcontract Efforts:

Tenders with Motor Carriers - Approximately \$420,000 (for shipments to Nevada Test Site) and approximately \$268,000 (for shipments to DOE - Portsmouth, Ohio Site).

Contract Period of Performance - Fiscal Year - 2001

Scope - Provide motor carrier service for various materials and waste shipments to either the Nevada Test Site or DOE - Portsmouth, Ohio Site.

PBS-09: THORIUM OVERPACK

This PBS is complete.

PBS-10: WASTE TREATMENT (MIXED WASTE)

Waste Treatment (WT) encompasses the planning, characterization, packaging, treatment, shipping, and disposal of hazardous, mixed, Toxic Substance Control Act (TSCA) medical, thorium and certain low level waste. The scope of work for PBS-10 is divided into seven sub-groupings:

- 1) Organic Treatment: treatment and disposal of a variety of organically contaminated wastes including PCB's, debris, soils, sludge and stabilized water.
- 2) Inorganic Treatment: treatment and disposal of inorganic wastes including lead, mercury and smaller quantities of miscellaneous inorganics.
- 3) Thorium: preparation and disposal of low level thorium residues, and treatment and disposal of low level mixed thorium wastes.
- 4) TSCA Liquids: disposition of aqueous/liquid mixed, TSCA or combustible wastes at the DOE TSCA incinerator at Oak Ridge, TN.
- 5) Aqueous/Liquids Wastes: disposition of aqueous mixed waste through to FEMP Advanced Wastewater Treatment Facility.
- 6) Hazardous Wastes: disposition, including treatment and recycling of a variety of waste types such as batteries, medical wastes, photography waste, light ballast, and miscellaneous chemicals.
- 7) Waste Treatment Administration: project support activities including maintenance of the FFCA Site Treatment Plan.

Expected Status at Contract Award:

Liquid waste bulking and shipments to the TSCA incinerator and hazardous waste dispositioning will be on-going operations. Aqueous liquid disposition to the AWWT and thorium waste treatment began in FY 2000 and will be on-going operations. First Article Testing of the Organic Treatment Project is projected to be completed by the spring of 2001. Inorganic waste treatment and Campaign 2 of Organic Treatment are expected to begin in FY 2001.

Expected Status as of Paths to Closure Date:

All waste currently in inventory will have been treated by September 30, 2003. It is possible that there may be some small volumes of wastes generated by site remediation projects after that date which may require treatment.

Regulatory & Stakeholder Commitments/deliverables:

- Directors Findings and Orders/Site Treatment Plan, October 1995
 - Complete Phase II Wastewater Treatment by September 30, 2001
 - Complete Phase II TSCA Incinerator Project by December 31, 2000
 - Complete Organic Treatment Project by December 30, 2001
 - Complete Inorganic Treatment Project by September 30, 2000
 - Complete Thorium Mixed Waste Project by September 30, 2001
- Annual Updates to the FEMP Site Treatment Plan

Principal Contaminants:

Uranium, Thorium, RCRA hazardous constituents, and PCB's.

Significant and Anticipated Subcontract Efforts:

Materials and Energy Corp. (M&EC) (Broad Spectrum Contract) - Approximately \$316,000

Contract Period of Performance - March 1999 through FY-2001

Scope - Broad Spectrum is a contract awarded by the Oak Ridge, TN Operations Office to address the need for a mechanism to treat and/or dispose of a wide range of mixed waste. It is a basic ordering agreement which allows all DOE users the opportunity to utilize multiple waste treatment and disposal options on a task order basis.

PBS-11: WASTE MANAGEMENT

Waste Management encompasses the planning, characterization, packaging, treatment, shipping, and disposal of Low Level Waste (LLW) inventories. LLW included in the scope of this project is grouped according to waste type, processing requirements, and disposition alternatives. The waste groups are: trash, asbestos, residues, soil, and uranium wastes. LLW within the scope of PBS-11 is generally "containerized" wastes. Other PBS's have provided budget and schedule for disposition of LLW generated or managed by those projects.

In addition to LLW disposition, PBS-11 includes program management activities to assure and plan for effective implementation of the overall waste management mission of the FEMP, including administration, waste and materials consolidation, inventory management, work forecasting, pollution prevention and waste minimization, warehousing, field operations support, and support of DOE waste management initiatives. In addition, the Contractor will also be required to manage the Department's waste transportation tenders. The Contractor will support the disposal of waste by the Department whether by subcontract, under agreement with another Federal Government site, or by DOE prime contract, including that with Envirocare of Utah.

Expected Status at Contract Award:

Many of the activities within the scope of this PBS are on-going support activities, such as inventory management, warehousing, and operation support. These activities are expected to be ongoing and extend well beyond November 30, 2000 but will be completed by September 30, 2006.

Shipping of wastes will also be ongoing, for example*:

- Approximately 500,000 ft³ of LLW is projected to be shipped to Nevada Test Site Disposal Facility (NTS) FY01-FY06
- ~ 175,000 ft³ of miscellaneous wastes/materials will be shipped to commercial treatment, storage, and disposal facilities (TSDF) FY01-FY06
- Sanitary waste volumes will be ~1,000,000 ft³.

* (Estimates include waste volumes included in PBS-11 scope and other projects. PBS-11 will provide operation support for all shipments).

Expected Status as of Paths to Closure Date:

This PBS will be completed by September 30, 2006. There will be similar waste management activities that will continue as part of other project/PBS's.

Regulatory & Stakeholder Commitments/deliverables:

- Other commitments affecting the management of LLW include the Ohio Consent Decree and the Stipulated Amendments to Consent Decree.
- DOE has committed to U.S. EPA and Ohio EPA to complete legacy LLW disposition by May 29, 2003 and to complete uranium waste treatment and disposition by December 31, 2005.

Principal Contaminants:

Principal contaminants include uranium and thorium as well as all other Constituents of Concern found in other projects.

Significant and Anticipated Subcontract Efforts:

TBD - \$ - TBD

Period of Performance - One year base with two, one year options.

Scope - Provide containers for waste storage and transportation.

PBS-12: PROGRAM SUPPORT AND OVERSIGHT

Program Support and Oversight are activities and functions that crosscut all the activities at the FEMP. When a specific activity is directly attributable to a specific PBS, and when the costs can be collected easily, then the cost of that activity is charged to that specific PBS. Otherwise, the costs are collected and reported to PBS-12.

Support and Oversight is the summary WBS level which provides Administrative and Technical Oversight to ensure conformance with all applicable federal and state laws and regulations. In addition, although this contract will not include post-closure Long Term Stewardship activities, the Contractor is to develop the necessary plans that establish the specific Long Term Stewardship activities required for the Fernald site in accordance with DOE policy and guidance. These plans will be submitted to DOE for approval prior to submittal to appropriate regulatory authority. The Contractor will also aid in the transition of the site to LTS.

The scope is further defined as Administrative Support, and Technical Oversight and Integration.

Administrative Support:

- Contracts and Asset Management
- Finance
- Human Resources
- Industrial Relations
- Information Management
- Internal Audit
- Lease Administration
- Legal
- Office Services
- Program Services
- Property Management
- Public Affairs
- Records Management
- Space Management
- Stores Holding Accounts
- Stores Administration
- Total Quality Management

Technical Oversight & Integration:

- Audits
- Dosimetry
- Emergency Services
- Environmental Compliance
- Medical
- Operations Assurance
- Program Services within Technical Oversight & Integration

Program Planning & Integration
Project Controls
Quality Assurance
Safety & Health
Security

The systems and processes discussed above are currently in use at the FEMP. It is not envisioned that there will be significant replacement of these systems; however, the DOE is receptive to new and innovative approaches which will reduce the administrative burden and increase the effectiveness of this project.

Expected Status at Contract Award:

The components of PBS-12 on the above date will be essentially the same as it is presently defined.

Expected Status as of Paths to Closure Date:

The components of PBS-12 on the above date should be drastically changed as compared to today. By the above date, the PBS efforts should be centered around documenting final reports, preparing final funding numbers and contract closeout/reduction reports, and dispositioning excess government property. The number of prime Contractor FTE's should be greatly reduced in 2006 as compared to FY-00.

Regulatory and Stakeholder Commitments/deliverables:

Monthly and Quarterly Consent Agreement Progress Reports.

Principal Contaminants:

None.

Significant and Anticipated Subcontract Efforts:

See attached.

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SUBCONTRACTOR NAME	DESCRIPTION OF SCOPE OF WORK	START DATE	END DATE	PERIOD OF PERFORMANCE OPTIONS	CONTRACT VALUE (includes options)
PITNEY-BOWES, INC.	Copier Services - This subcontractor supplies all the copiers, maintenance of all copiers, and replacement of all copiers. The cost to the government is set at 2 cents per copy.	10/1/98	9/30/03	None	\$311,080
HILTON AUCTIONEERS	Auctioneering Services - This subcontractor is the auctioneer for the public sale of excess property.	1/8/99	12/31/99	2 -1 year options	\$0
OKD THREE, LTD.	Lease of 175 Tri-Co Parkway Office Center - This subcontractor is the building owner of the subject office center. This building can house 334 personnel and also houses the computer facilities for the project.	8/11/97	10/31/02	11/01/02 to 11/30/05	\$4,975,284
TOM RATTERMAN	Lease of UNO/DOS Building - This subcontractor is the building owner of the subject building. This building can house 68 personnel.	1/01/97	9/30/00	10/01/00 to 9/30/02	\$601,774
PLANE MOVING AND STORAGE	Lease of Records Center - This subcontractor is the building owner and is the building where all official records are housed.	5/15/96	7/31/01	8/01/01 to 7/31/03	\$1,684,977
RUSSELL J. WESMAN	Lease of Harrison Lab - This subcontract is the building owner and is where the laboratory samples are housed.	4/26/94	4/25/95	4/26/95 to 4/25/01	\$484,435
TOM RATTERMAN	Lease of Delta Building - This subcontract is the building owner and the office is used to house PEIC and IR.	12/01/96	2/28/00	3/01/00 to 2/28/02	\$184,187
1 ST INDUSTRIAL REALTY TRUST	Lease of Northstar Warehouse - This subcontract is the building owner and is where some of the excess property is stored before disposal and is where some supplies for the project is housed.	11/31/94	11/13/99	2 years	\$1,448,385
CINCINNATI BELL TELEPHONE	Telephone Services - This subcontractor supplies and maintains the telephone services for the project.	1/1/98	12/31/99	None	\$905,000
SAFETY AND ECOLOGY CORP.	Rad Techs (Charged Out to Projects) - This subcontractor supplies personnel to perform radiation safety surveys for the project.	11/1/98	8/31/00	2 - 1 year options	\$24,904,138
HONEYWELL, INC.	Honeywell Fire Alarm System Maintenance - This subcontractor supplies and maintains the fire alarm system at the site.	11/7/98	6/6/00	3 - 1 year options	\$1,042,351

PBS-13: OUTYEAR

The information provided on this PBS is for Information Only. This PBS is not in the Scope of Work for this Contract.

The Post Source Term Removal project attempts to capture all of the Long Term Stewardship activities not part of the existing baseline that need to occur in order to place the FEMP in a final closure configuration. This PBS describes the activities at the FEMP that are to occur after meeting the requirements of the ROD's and the Statement of Work.

C-5 ENVIRONMENTAL SAFETY, HEALTH, AND QUALITY ASSURANCE**C-5.1 FEMP Programs:**

The Contractor is fully accountable for an integrated safety management program that accomplishes all work (either performed directly or by subcontract) in a manner that meets technical quality objectives and is protective of workers, the public and the environment. The Contractor shall implement a single, site-wide Integrated Safety Management System (ISMS), building on the ongoing systems and programs at the FEMP which include the existing FEMP ISMS, the Enhanced Work Planning (EWP) system, and the Safety First initiative. The Contractor shall implement the existing FEMP Quality Assurance (QA) Program and continue the Central Safety Committee and the Tri-Partite Committee. These existing programs can be improved through innovations, but shall not be replaced. All Contractor ES&H programs shall support the ISMS.

The Contractor will not be required to develop a new Safety Management System Description under the provisions of the Section I clause entitled DEAR 970-5204-2, INTEGRATION OF ENVIRONMENT, SAFETY, AND HEALTH INTO WORK PLANNING AND EXECUTION. The Contractor shall update the Safety Management Systems Description Document that is in effect at the start of the contract, and the safety performance objectives, performance measures, and commitments discussed in DEAR 970-5204-2, paragraph (d) and (e) as soon as practical during the contract performance period but no later than January 31, 2001.

The Contractor shall complete in a timely manner any open corrective actions identified by prior ISMS Verifications. Within one year of contract award the ISMS shall be subject to a verification review (Phase I & II) by an Ohio Field Office chartered ISMS Verification Team.

C-5.2 Protection of Workers, the Public, and the Environment:

Protection of workers, the public, and the environment are fundamental responsibilities of the Contractor. The Contractor's ES&H program shall be operated as an integral, but visible, part of how the Contractor conducts business. This includes prioritizing work planning and execution, establishing clear ES&H priorities, allocating resources to address programmatic and operational considerations, and addressing all hazards for all FEMP facilities, operations, and work, both nuclear and non-nuclear. The Contractor shall ensure that cost reduction efforts and efficiency efforts are fully compatible with ES&H performance.

The Contractor shall:

- a) Along with its subcontractors, perform all activities in compliance with applicable health, safety and environmental laws, orders, regulations, governing agreements and permits executed with regulatory and oversight government organizations.

- b) Take necessary actions to preclude serious injuries and fatalities, keep worker exposures and environmental releases as low as reasonably achievable below established limits, minimize the generations of waste, and maintain or increase protection to the environment, public and worker safety and health.
- c) Continue implementation of the single, site-wide FEMP ISMS at all organizational levels, conforming to DEAR 970.5204-2, "Integration of Environment, Safety, and Health into Work Planning and Execution," and DOE P 450.4, "Safety Management System Policy," to include implementation of the five core functions and seven guiding principles.
- d) Establish clear ES&H roles, responsibilities, and authorities of line managers. The senior Contractor management official shall hold line managers, including direct reports, accountable for implementing necessary controls for safe performance of work in their area of responsibility.
- e) Include in the ISMS systems: (a) performance measures and indicators, (b) line and independent evaluations, (c) compliance with applicable requirements, (d) data collection, analysis and corrective action implementation and (e) continuous feedback and performance improvement.
- f) Ensure that the systems address ES&H and other compliance issues (e.g. permitting, environmental reporting, National Environmental Policy Act, safety deficiencies, compliance findings and so forth). These systems shall include lessons learned and additional relevant information from other DOE sites and related industries.
- g) Assure that employees are trained and equipped to perform work safely.
- h) Include ES&H performance as an evaluation factor in the selection of subcontractors performing site related work and flow ES&H requirements into subcontracts. Ensure subcontractors demonstrate a commitment to ES&H by an established superior safety performance record. Additionally, consider as an evaluation factor in the selection of subcontract(ors) that they demonstrate an ability to perform work in an acceptable manner with performance-based oversight.
- i) Promptly evaluate, report to DOE and external regulators, and resolve any non-compliance with applicable ES&H requirements and the ISMS.
- j) Maintain the operational controls as defined in the current Basis for Interim Operations (BIOs) originally approved by EM-1 in 1996 and subsequently updated and approved by the Ohio Field Office Manager (July 1999) until such time as the facility/operational classification can be officially downgraded.

- k) Maintain cooperation with external oversight groups including the DOE, the U.S. Environmental Protection Agency, the State of Ohio, and others. Contractor will be responsible for obtaining and maintaining necessary permits or licenses. DOE does not intend to be an operator for any permits. DOE in conjunction with the Contractor will be directly responsible for day-to-day interactions with regulatory agencies regarding permit and environmental compliance related issues, including negotiating of fines and penalties. The Contractor will be solely responsible for paying fines and penalties assessed against DOE which are the result of Contractor actions. The Contracting Officer reserves the right to unilaterally determine if the Contractor was responsible for the fine(s) levied against DOE.
- l) Continue the effective FEMP stakeholder involvement programs in accordance with CERCLA, NEPA, and DOE guidance to support DOE's Environmental Management activities.
- m) At contract award, adopt existing regulatory required implementation plans (e.g., 10CFR835 Radiation Protection Plan (RPP) and 10CFR830.120 Quality Assurance Implementation Plan) until such time as updated implementation plans are developed and submitted for DOE approval.

C-5.3 Quality Assurance:

Perform all work at the FEMP to the requirements of the existing FEMP Quality Assurance Program, which is based on DOE O 414.1 "Quality Assurance," and 10 CFR 830.120 "Nuclear Safety Management Quality Assurance Requirements." The Contractor's QA Program shall be operated as an integral, but visible, part of how the Contractor conducts business, including allocating resources to address programmatic and operational considerations. The Contractor shall ensure that cost reduction and efficiency efforts are fully compatible with quality performance.

C-6 TECHNOLOGY DEVELOPMENT/DEPLOYMENT

The Contractor shall integrate those elements of DOE's technology program, as directed by the Contracting Officer, into its environmental restoration activities and other programs.

Those elements include, but are not limited to, the following:

- 1) Support the DOE's Site Technology Coordination Group, which provides a link between the national technology program, regulators, stakeholders, focus areas and the FEMP.
- 2) Investigate and manage the use of innovative technologies, approaches and processes in environmental restoration, waste management projects and safety. The Contractor shall draw upon all available sources including the Office of Science and Technology, commercial industry, other governmental agencies, and universities.

- 3) Conduct technology demonstrations and deployments as directed by the Contracting Officer, in coordination with the DOE Technology Programs Officer, when it is determined to be advantageous to the Department.

C-7 TRANSITION

C-7.1 Prime Contractor Transition:

The transition period for the Contractor is the period of time from contract award to the date the Contractor assumes full responsibility for the Statement of Work. During this period, the Contractor will bring on board its management team and other staff necessary to plan and conduct those activities that provide for an orderly transfer of responsibilities and accountability. Any necessary agreements between the Contractor and site subcontractors for continuity and provision of services will be put in place.

C-7.2 Subcontract Transition:

The Contractor will be responsible for assuming all subcontracts assigned by the Contracting Officer to ensure continuity of work to be performed. Replacement by the Contractor of any of the following subcontractors will require prior approval by DOE. An example of the major subcontracts currently in place is provided below:

- Waste Pit Remedial Project - PBS-5 (IT Corp.)
- On-Site Disposal Facility Title I, II, and III - PBS-3 (Geosyntec Consultants)
- Silo 3 Project - PBS-7 (Rocky Mountain Remedial Services)
- Accelerated Waste Retrieval System for Silos 1 and 2 - PBS-7 (Foster Wheeler Environmental Corp.)
- Plant 5 Complex D&D Project - PBS-2 (MACTEC, Inc.)
- Plant 6 Complex D&D Project - PBS-2 (MACTEC, Inc.)
- Lease of Northstar Warehouse, Princeton-Glendale Rd. - PBS-12 (First Industrial Realty Trust)
- Lease of Records Center, Crescentville Rd. - PBS-12 (Planes Moving and Storage, Inc.)
- Lease of Springdale Office, Tri-County Parkway - PBS-12 (OKD Three, Limited)
- Permanent Leachate System - PBS-3 (TBD)

For a complete listing of existing subcontracts refer to Attachment 5 of Section J.

C-7.3 Other Agreements and Permits:

In addition to managing the subcontracts listed above, the Contractor will also be responsible for the execution of other site specific agreements and permits that are currently in place. The agreements and permits are listed in Attachment 2 of Section J.

C-8 PUBLIC INVOLVEMENT AND STAKEHOLDER INTERACTION

It is the policy of the DOE to be a constructive partner in the geographic region in which DOE conducts its business. The basic elements of this policy include: (1) recognizing the interests of the region and its stakeholders, (2) engaging regional stakeholders in issues and concerns of mutual interest, and (3) recognizing that giving back to the community is a worthwhile business practice. Accordingly, the Contractor is encouraged to conduct its business operations and performance under the contract consistent with the intent of this policy and in accordance with the language below.

In coordination with DOE, the Contractor shall be responsible for maintaining and building upon FEMP relationships and programs regarding public involvement and stakeholder interaction, as well as internal communications. These activities have been, and will continue to be, critical elements in the success of FEMP remediation activities. Fundamental values of these programs will include: candor, consistency, open communication, and proactive solicitation of stakeholder input to and participation in the decision-making process. Mechanisms to accomplish the goal of public involvement and stakeholder interaction will include: public meetings, project status briefings, separate committee meetings, tours, workshops, presentations, the Fernald Envoy program, and other forums for discussions. The frequency of these interactions will be as needed to foster clear understanding and agreement concerning site activities.

In addition to its own employees, key stakeholder organizations and groups with which the Contractor will maintain and build upon effective interactions and relationships include:

- The U.S. EPA, Region V
- The State of Ohio Environmental Protection Agency
- The Fernald Citizens Advisory Board (CAB)
- The Fernald Community Reuse Organization (CRO)
- The Natural Resources Trustees
- The Fernald Residents for Environmental Safety and Health (FRESH)
- The Fernald Atomic Trades and Labor Council (FAT&LC)
- The International Guards Union of America (IGUA)
- The Greater Cincinnati Building and Construction Trades Council (GCBCTC)
- Crosby, Morgan, and Ross Township Trustees
- Fernald Living History, Inc.
- Local media and trade press

The Contractor shall engage in cooperative interactions through and with these organizations in performance under this contract. All interactions and costs occasioned thereby with these organizations, the media, and other interested parties, will be coordinated with DOE prior to implementation through the cognizant Contracting Officer, FEMP Project Office Director, and Ohio Field Office Public Affairs Director.