

**FLUOR FERNALD CLOSURE PLAN
BASIS OF ESTIMATE**

NON-DEFENSE CLOSURE

SEPTEMBER 2001

**2500-PL-0013
REVISION 1**

**Part 1: PADD/PAMM/PAQF/PAST/PASW/PATP/PLTS/PMMB/PMND/PPCS/PUDP –
Technology Programs
Section 1: Technology Development**

1.0 Narrative

1.1 Overview

1.2 Assumptions/Exclusions

1.2.1 Assumptions

1.2.2 Exclusions

1.2.3 Government-Furnished Equipment/Services

1.3 Drivers

1.3.1 Priority Fernald Projects

1.3.2 DOE Drivers

1.4 Project Physical Description

1.5 Scope of Work

1.5.1 Task #1 - PATP – TTP No. OH17PS01, TPO Support

1.5.1)1 Plan/Scope

1.5.1)2 Quantification

1.5.2 Task #2 - PAMM – TTP No. OH10DD31, Improved Monitoring and Measurement System

1.5.2)1 Plan/Scope

1.5.2)2 Quantification

1.5.3 Task #3 - PMMB – TTP No. OH00MW21, Microchip Memory Button (Large Scale)

1.5.3)1 Scope

1.5.3)2 Quantification

1.5.4 Task #4 - PADD – TTP No. OH16DD21, Large Scale Technology Demonstration and Deployment

1.5.4)1 Plan/Scope

1.5.4)2 Quantification

1.5.5 Task #5 - PAQF – TTP No. OH18SS40, Aquifer Flushing and Support

1.5.5)1 Plan/Scope

1.5.5)2 Quantification

1.5.6 Task #6 - PAST – TTP No. OH19DD61, Mobile Work Platform/TTP No. OH11DD31, Integrated Excavation Control System (CA To Be Determined)

1.5.6)1 Plan/Scope

1.5.6)2 Quantification

1.5.7 Task #7 – TTP No. OH11SS31, Integrated Excavation Control System (CA To Be Determined)

1.5.7)1 Plan/Scope

1.5.7)2 Quantification

1.5.8 Task #8 – PASW – TTP No. OH08SD10, Mobile Radiation Tracking System

1.5.8)1 Plan/Scope

1.5.8)2 Quantification

**Part 1: PADD/PAMM/PAQF/PAST/PASW/PATP/PLTS/PMMB/PMND/PPCS/PUDP –
Technology Programs**

Section 1: Technology Development

- 1.5.9 Task #9 – PLTS – TTP No. OH10SS20, Fernald Post Closure
Stewardship Technology Project
 - 1.5.9)1 Plan/Scope
 - 1.5.9)2 Quantification
 - 1.5.10 Task #10 – PPCS – TTP No. OH19DD62, Fernald Technology Transfer
Project
 - 1.5.10)1 Plan/Scope
 - 1.5.10)2 Quantification
 - 1.5.11 Task #11 – PUDP – TTP No. OH10DD21, Universal Demolition Processor
 - 1.5.11)1 Plan/Scope
 - 1.5.11)2 Quantification
 - 1.5.12 Task #12 – TTP To Be Determined, Future New Project(s) To Be Defined
 - 1.5.12)1 Plan/Scope
 - 1.5.12)2 Quantification
- 2.0 Manpower Plans
 - 2.1 Technology Development Programs
 - 3.0 Estimate
 - 4.0 Risk Plan

Part 2: PCAA/PCAB/PCYB/PWVA/PVTS – Miscellaneous Programs
Section 1: Miscellaneous Programs

- 1.0 Narrative
 - 1.1 Overview
 - 1.2 Assumptions/Exclusions
 - 1.2.1 Assumptions
 - 1.2.2 Exclusions
 - 1.2.3 Government-Furnished Equipment/Services
 - 1.3 Drivers
 - 1.4 Scope of Work
 - 1.4.1 Task #1 - PCAA1 – Health Surveillance Activities
 - 1.4.1)1 Plan/Scope
 - 1.4.1)2 Quantification
 - 1.4.2 Task #2 - PCYB1 – Cyber Security Fire Wall
 - 1.4.2)1 Plan/Scope
 - 1.4.2)2 Quantification
 - 1.4.3 Task #3 - PCAB2/PWVA/PVTS1 – Other Miscellaneous Programs
 - 1.4.3)1 Plan/Scope
 - 1.4.3)2 Quantification
 - 1.4.4 Task #4 – PCPA Energy Employees Occupational Illness Compensation Program Act (EEOICPA) Activities
 - 1.4.4)1 Plan/Scope
 - 1.4.4)2 Quantification
 - 1.4.5 Task #5 – PTSD Integrated Technology Suite Deployment at Oak Ridge (OR001SS2)
 - 1.4.5)1 Plan/Scope
 - 1.4.5)2 Quantification
- 2.0 Manpower Plans
 - 2.1 Miscellaneous Programs
- 3.0 Estimate
- 4.0 Risk Plan

Part 3: PSEC – Safeguards and Security

Section 1: PSEC1 – Protective Forces

- 1.0 Narrative
 - 1.1 Overview
 - 1.2 Assumptions/Exclusions
 - 1.2.1 Assumptions
 - 1.2.2 Exclusions
 - 1.2.3 Government-Furnished Equipment/Services
 - 1.3 Drivers
 - 1.4 Scope of Work
 - 1.4.1 Task #1 – Protective Forces
 - 1.4.2 Task #2 – Access Administration
 - 1.4.3 Task #3 – Security Investigations
 - 1.4.4 Task #4 – Lock and Key
 - 1.4.5 Task #5 – Security Management/Supervision/Clerical Support
 - 1.4.6 Plan/Scope
 - 1.4.7 Quantification
- 2.0 Manpower Plans
 - 2.1 Safeguards and Securities Protective Forces
- 3.0 Estimate
- 4.0 Risk Plan

Part 3: PSEC – Safeguards and Security

Section 2: PSEC2 – Materials Control and Accountability (MC&A) Programmatic

- 1.0 Narrative
 - 1.1 Overview
 - 1.2 Assumptions/Exclusions
 - 1.2.1 Assumptions
 - 1.2.2 Exclusions
 - 1.2.3 Government-Furnished Equipment/Services
 - 1.3 Drivers
 - 1.4 Scope of Work
 - 1.4.1 Task #1 – PSEC2 – Materials Control and Accountability
 - 1.4.1)1 Plan/Scope
 - 1.4.1)2 Quantification
- 2.0 Manpower Plans
 - 2.1 Safeguards and Securities MC&A Programmatic
- 3.0 Estimate
- 4.0 Risk Plan

Part 3: PSEC – Safeguards and Security
Section 3: PSEC3 – Cyber Security

- 1.0 Narrative
 - 1.1 Overview
 - 1.2 Assumptions/Exclusions
 - 1.2.1 Assumptions
 - 1.2.2 Exclusions
 - 1.2.3 Government-Furnished Equipment/Services
 - 1.3 Drivers
 - 1.4 Scope of Work
 - 1.4.1 Task #1 – Computer Security Administration
 - 1.4.2 Task #2 – Computer Audits and Assessments
 - 1.4.3 Task #3 – Daily Operations
 - 1.4.4 Plan/Scope
 - 1.4.5 Quantification
- 2.0 Manpower Plans
 - 2.1 Safeguards and Securities Cyber Security
- 3.0 Estimate
- 4.0 Risk Plan

**WBS DICTIONARY
CONTROL ACCOUNT/CHARGE NUMBER**

U.S. DEPARTMENT OF ENERGY
WORK BREAKDOWN STRUCTURE DICTIONARY
PART II - ELEMENT DEFINITION

1. PROJECT TITLE FEMP (NON-DEFENSE)	2. DATE OF CONTRACT 12/01/2000
3. IDENTIFICATION NUMBER DE-AC24-01OH20115	4. INDEX LINE NO. 77
5. WBS ELEMENT CODE 1.2	6. WBS ELEMENT TITLE NON-DEFENSE CLOSURE
7. APPROVED CP NO. CHANGE PER CP# FY01-0115-0000-01	8. DATE OF CHANGES 12/01/2000
9. SYSTEM DESIGN DESCRIPTION CERCLA/ACA	10. BUDGET AND REPORTING NUMBER Various
<p>11. ELEMENT TASK DESCRIPTION</p> <p><u>a. ELEMENTS OF COST:</u></p> <p>Labor Materials Subcontracts ODCs</p> <p><u>b. TECHNICAL CONTENT:</u></p> <p>This element provides for:</p> <ul style="list-style-type: none"> - Integration of those elements of DOE's technology program into the Fernald Environmental Restoration Project environmental restoration activities and other programs in accordance with funding and direction provided by the DOE Office of Science and Technology and other Non-Defense sources through Program Execution Guidance and Technical Task Plans. <p>The scope is further defined in these subordinate WBS Elements listed below:</p> <ul style="list-style-type: none"> 1.2.A Technology Development Programs 1.2.B Miscellaneous Programs 1.2.C Safeguards and Security <p><u>c. SCOPE OF WORK:</u></p> <p>Technology Demonstrations Programs:</p> <ul style="list-style-type: none"> - Support the DOE's Site Technology Coordination Group and provide a link between the national technology program, regulators, stakeholders, Focus Areas, and the FEMP. - Investigate and manage the use of innovative technologies, approaches and processes in environmental restoration, waste management projects and technology 	

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9. SYSTEM DESIGN DESCRIPTION CERCLA/ACA	10. BUDGET AND REPORTING NUMBER Various
<p>11. ELEMENT TASK DESCRIPTION</p> <p>support for long-term stewardship and safety of the FEMP, and draw upon all available sources including the DOE Offices of Science and Technology, commercial industry, other governmental agencies and universities.</p> <ul style="list-style-type: none"> - Conduct Non-Defense funded technology demonstrations and deployments. <p>Epidemiological Activities:</p> <ul style="list-style-type: none"> - Provide a morbidity study of the site population to the Occupational Health Surveillance Program - Provide a monthly health events report - Administer an annual occupational census <p>Fernald Citizens Advisory Board:</p> <ul style="list-style-type: none"> - Provide assistance as needed for the Site Specific Advisory Board. <p>Cyber Security:</p> <ul style="list-style-type: none"> - Provides for the purchase, installation, and technical oversight of an Intrusion Detection Server. <p>Integrated Technology Suite Deployment at Oak Ridge:</p> <ul style="list-style-type: none"> - Provides for the transfer of scope from the Oak Ridge Reservation (ORR) to Fernald for the purpose of the Integrated Technology Suite (ITS) deployment at ORR. <p>Vacuum Transfer System:</p> <ul style="list-style-type: none"> - Provides for a repackaging system for removing >1% U-235 enriched uranium compounds with various particle sizes and other varying physical characteristics (i.e., density, moisture content) from multiple sizes of storage containers to approved transportation packages. <p>West Valley Audit:</p> <ul style="list-style-type: none"> - Provides for the performance of an informal (non-documented) review of the West Valley Nuclear Project's preparation for an initial audit of their waste certification program by Nevada Test Site (NTS) Radioactive Waste Acceptance Program. <p>Safeguards and Security:</p> <ul style="list-style-type: none"> - Provides for security department management, access administration, computer security and criminal investigations, physical security, protective forces, MC&A and cyber security for visitors, tour groups, subcontracts, DOE-Fernald and 	

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9. SYSTEM DESIGN DESCRIPTION CERCLA/ACA	10. BUDGET AND REPORTING NUMBER Various		
11. ELEMENT TASK DESCRIPTION Fluor Fernald employees.			

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7. APPROVED CP NO. CHANGE PER CP# FY01-0115-0000-01	8. DATE OF CHANGES 12/01/2000
9. SYSTEM DESIGN DESCRIPTION CERCLA/ACA	10. BUDGET AND REPORTING NUMBER Various
11. ELEMENT TASK DESCRIPTION <p><u>a. ELEMENTS OF COST:</u></p> <p>Labor Materials Subcontracts ODCs</p> <p><u>b. TECHNICAL CONTENT:</u></p> <p>Non-Defense Technology Development Programs consist of multiple programs. See scope of work below.</p> <p><u>c. SCOPE OF WORK:</u></p> <p>TECHNOLOGY DEVELOPMENT PROGRAMS;</p> <p>TECHNOLOGY DEMONSTRATIONS provides LSTD - reporting on project status, project closeout activities, answering OST questions on project results, and transferring of funds at project closeout. Mound ICT - Attend and participate in project meetings.</p> <p>IMPROVE MEASUREMENT AND MONITORING ASTD PROJECT - involves execution of the OST improved measurement and monitoring ASTD project as it relates to the mission of technology deployment. The scope involves the deployment of three separate measuring and monitoring technologies at Fernald.</p> <p>AQUIFER FLUSHING - provided for technical oversight and coordination of an Office of Science and Technology (OST) sponsored activity at Fernald for the development of a new technology application of in-situ leaching techniques, for use in environmental remediation at Fernald.</p> <p>INTEGRATED EXCAVATION CONTROL SYSTEM - Provide management and oversight of this Office of Science and Technology (OST) sponsored activity at Fernald to</p>	

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9. SYSTEM DESIGN DESCRIPTION CERCLA/ACA	10. BUDGET AND REPORTING NUMBER Various
11. ELEMENT TASK DESCRIPTION <p>implement the Integrated Excavation Control System (IECS) project. A portion of this Deactivation and Decommissioning focus area (DDFA) ASTD funding is being directed to three partners (EML, ANL, & INEEL) to provide technical support. Technology Program cost management for this account will continue through FY 2003.</p> <p>SOILS PROJECT TDI REAL-TIME SYSTEM DEVELOPMENT - performed as identified in the plan "Deployment of an Integrated Technology Suite for Cost Effectively Delineating Contamination in Soils in Support of Soil Remedial Actions", by DOE, Rev. 0.0, dated 10/31/97. (Name of DOE HQ program changed from Technology Deployment Initiative (TDI) to Accelerated Site Technology Deployment (ASTD)).</p> <p>TPO SUPPORT - involves support of OST programs at Fernald and in the field and STCG activities to serve as contact for OST management of tasks and for interfacing with site operations groups and with regional institutions.</p> <p>DRUM HANDLING SYSTEM PROJECT - provides for successful implementation of an Automated Inspection Station and Automated Materials Preparation Station. The scope of work also includes deployment of a pilot plant for recycling uranium into the nuclear fuel cycle.</p> <p>FERNALD POST CLOSURE STEWARDSHIP TECHNOLOGY (PCSTP) - involves support of the OST Post Closure Stewardship Technology Project, as it relates to their mission of technology demonstration and deployment. The scope involves the conduct of investigations, demonstrations, and deployments of Post Closure Stewardship technologies at Fernald and includes project controls and scheduling. This involves identifying, selecting, coordinating, and implementing improved Post Closure Stewardship technology into the active Fernald site remediation, and facilities and areas such as OSDF and restored areas. This includes all OST required reporting, travel and information transfer.</p> <p>MICROCHIP MEMORY BUTTON (MMB) PROJECT - involves the deployment of the Microchip Memory Button technologies at Fernald and other DOE facilities.</p> <p>DOE-OH FUNDED TECHNOLOGY WORK - provide technology projects to DOE-OH and to Fernald through the Office of Science and Technology funding resources for projects or investigations that will be materially executed by Fernald's Technology Programs organization. Primarily, for projects small in nature or short duration. The oversight scope for the project will be at Fernald and includes those site costs associated with performing work related to those</p>	

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9. SYSTEM DESIGN DESCRIPTION CERCLA/ACA	10. BUDGET AND REPORTING NUMBER Various
<p>11. ELEMENT TASK DESCRIPTION</p> <p>support services by Fernald necessary to execute the technology investigations, demonstrations and deployments or those costs associated with arranging technical investigations for other OH sites. These include project execution and support costs, project controls costs, and all other project administrative and support costs for the approved scopes of work.</p> <p>FERNALD ASTD TECHNOLOGY DEPLOYMENT PROJECT - through the Department of Energy's Office of Science and Technology's Accelerated Site Technology Deployment (ASTD) to Deploy the Personal Ice Cooling System (PICS) and Oxygasoline torch to Fernald and the DOE Complex.</p> <p>SOIL & WASTE ENGINEERING STUDY - perform project management, a literature search, treatability study development, and some treatability study execution. The objective of the project is to select, test, and compare innovative treatment technologies that can effectively treat organically contaminated soil as well as a waste inventory of organic soil/sludge/debris. Technologies that may be included in the treatability test are vacuum-assisted thermal desorption, in-situ chemical oxidation, ex-situ chemical oxidation, and other non-incineration thermal treatment technologies. The work scope to be performed expands the treatment alternative studies to include additional technologies for treating material which is contaminated with organic/inorganic constituents. Treatment and disposition alternatives for soil and waste inventory that are contaminated with organic/inorganic constituents.</p> <p>UNIVERSAL DEMOLITION PROCESSOR (UDP) - provide for the management, oversight and coordination of procuring and deploying the ASTD Project for the Universal Demolition Processor (UDP). This includes preparing, obtain authorization and issuing an RFP.</p>	

**WORK SCOPE DEFINITION
(Control Account)**

1. PROJECT TITLE FEMP (NON-DEFENSE)		2. DATE 12/01/2000	Page 1
3. WBS ELEMENT CODE 1.2.A	4. WBS ELEMENT TITLE/NAME TECHNOLOGY DEVELOPMENT PROGRAM		
5. PERFORMING DIV/DEPARTMENT CODE 45	6. ORIGINATOR NAME/PHONE MARK PETERS / 648-6325	7. WBS ELEMENT MANAGER PAUL PETTIT	
8. BUDGET AND REPORTING NUMBER EW4010000	9. BUDGET TITLE TREATMENT & REMEDIATION TECHNOLOGY SYSTEM		
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE? NEW PER CP# FY01-0115-0000-01		11. ESTIMATED START / COMPLETION DATE 12/01/00 - 6/30/02	
12. TASK IDENTIFICATION (CONTROL ACCOUNT) PADD	13. TASK DESCRIPTION (ONE LINE) TECHNOLOGY DEMONSTRATIONS		
14. ELEMENT TASK DESCRIPTION a. ELEMENTS OF COST: Labor Materials ODCs b. TECHNICAL CONTENT: This control account includes closeout of the Large Scale Technology Demonstration (LSTD) Project and Fernald's participation in the Mound Tritium Large Scale Demonstration & Deployment Project Integrated Contractor Team (ICT) Meetings. c. SCOPE OF WORK: The scope of work includes: LSTD - reporting on project status, project closeout activities, answering OST questions on project results, and transferring of funds at project closeout as appropriate (OH16DD21). Mound ICT - Attend and participate in project meetings (OH08DD21). d. WORK SPECIFICALLY EXCLUDED: None.			
Project Manager 	Control Account Manager 	Control Team Manager 	

WORK SCOPE DEFINITION
(Work Package)

1. PROJECT TITLE FEMP (NON-DEFENSE)	2. DATE 12/01/2000	Page 1
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3. WBS ELEMENT CODE 1.2.A	4. WBS ELEMENT TITLE/NAME TECHNOLOGY DEVELOPMENT PROGRAM
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5. PERFORMING DIV/DEPARTMENT CODE 45	6. ORIGINATOR NAME/PHONE MARK PETERS / 648-6325	7. WBS ELEMENT MANAGER PAUL PETTIT
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8. BUDGET AND REPORTING NUMBER EW4010000	9. BUDGET TITLE TREATMENT & REMEDIATION TECHNOLOGY SYSTEM
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10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE? NEW PER CP# FY01-0115-0000-01	11. ESTIMATED START / COMPLETION DATE 12/01/00 - 12/30/01
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12. TASK IDENTIFICATION (WORK PACKAGE) PADD1	13. TASK DESCRIPTION (ONE LINE) LARGE SCALE DEMOS
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14. ELEMENT TASK DESCRIPTION

a. ELEMENTS OF COST:

Labor
Materials

b. TECHNICAL CONTENT:

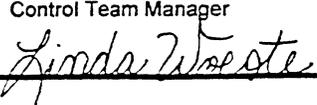
This charge account is specific to the closeout of the Large Scale Technology Demonstration (LSTD) Project and to answer questions pertaining to project results.

c. SCOPE OF WORK:

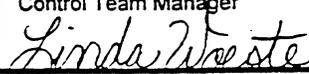
This scope of work includes reporting on project status, project close out activities, answering questions on project results, and transferring of remaining funds at project closeout as appropriate.

d. WORK SPECIFICALLY EXCLUDED:

All work activities not included in TTP # OH16DD21.

Project Manager 	Control Account Manager 	Control Team Manager 
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10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE? NEW PER CP# FY01-0115-0000-01		11. ESTIMATED START / COMPLETION DATE 12/01/00 - 6/30/02	
12. TASK IDENTIFICATION (WORK PACKAGE) PADD2	13. TASK DESCRIPTION (ONE LINE) MOUND TRITIUM LSDDP ICT SUPPORT		
14. ELEMENT TASK DESCRIPTION			
<p><u>a. ELEMENTS OF COST:</u></p> <p>Labor ODC's</p> <p><u>b. TECHNICAL CONTENT:</u></p> <p>This element provides for Fernald participation in the Mound Tritium D&D Large Scale Demonstration Deployment Project (LSDDP) to share lessons learned, to seek out mutually beneficial technologies for deployment at Ohio sites.</p> <p><u>c. SCOPE OF WORK:</u></p> <p>Travel and attendance at Mound LSDDP Integrating Contractor Team (ICT) meetings to share FEMP lessons learned, and to share in the benefits of the D&D technologies demonstrated in the Mound LSDDP.</p> <p><u>d. WORK SPECIFICALLY EXCLUDED:</u></p> <p>All work activities not included in TTP # OH08DD21.</p>			
Project Manager 	Control Account Manager 	Control Team Manager 	

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3. WBS ELEMENT CODE 1.2.A	4. WBS ELEMENT TITLE/NAME TECHNOLOGY DEVELOPMENT PROGRAM		
5. PERFORMING DIV/DEPARTMENT CODE 45	6. ORIGINATOR NAME/PHONE TIM MILLER / 648-6369	7. WBS ELEMENT MANAGER PAUL PETTIT	
8. BUDGET AND REPORTING NUMBER EW4010000	9. BUDGET TITLE TREATMENT & REMEDIATION TECHNOLOGY SYSTEM		
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE? NEW PER CP# FY01-0115-0000-01		11. ESTIMATED START / COMPLETION DATE 12/01/00 - 12/31/01	
12. TASK IDENTIFICATION (CONTROL ACCOUNT) PAMM	13. TASK DESCRIPTION (ONE LINE) IMPROVE MEASUREMENT AND MONITORING ASTD PROJECT		

14. ELEMENT TASK DESCRIPTION

a. ELEMENTS OF COST:

Labor
Materials
Subcontracts
ODC's (Travel)

b. TECHNICAL CONTENT:

This element provides for technical oversight, project execution and coordination of all Office of Science and Technology (OST) sponsored improved measurement and monitoring ASTD project. This package shall provide for the necessary procurement, project execution, report writing, tracking and data collection required by the ASTD project Technical Task Plan (TTP) OH10DD31.

c. SCOPE OF WORK:

This work scope involves execution of the OST improved measurement and monitoring ASTD project as it relates to the mission of technology deployment. The scope involves the deployment of three separate measuring and monitoring technologies at Fernald. This will involve the deployment of the following measurement related technologies:

- Remote Prismless Total Station Surveying Instrument;
- Real Time Physiological Monitoring System;
- Integrated Wireless Radon Monitoring System.

d. WORK SPECIFICALLY EXCLUDED:

Project Manager <i>[Signature]</i> FOR PAUL PETTIT TIM MILLER	Control Account Manager <i>[Signature]</i>	Control Team Manager <i>[Signature]</i>
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WORK SCOPE DEFINITION
(Control Account)

1. PROJECT TITLE FEMP (NON-DEFENSE)		2. DATE 12/01/2000	Page 2
3. WBS ELEMENT CODE 1.2.A	4. WBS ELEMENT TITLE/NAME TECHNOLOGY DEVELOPMENT PROGRAM		
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8. BUDGET AND REPORTING NUMBER EW4010000	9. BUDGET TITLE TREATMENT & REMEDIATION TECHNOLOGY SYSTEM		
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12. TASK IDENTIFICATION (CONTROL ACCOUNT) PAMM	13. TASK DESCRIPTION (ONE LINE) IMPROVE MEASUREMENT AND MONITORING ASTD PROJECT		

14. ELEMENT TASK DESCRIPTION

This work scope does not include capital expenditures.

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12. TASK IDENTIFICATION (WORK PACKAGE) PAMM1		13. TASK DESCRIPTION (ONE LINE) REMOTE PRISMLESS SURVEY SYSTEM	

14. ELEMENT TASK DESCRIPTION

a. ELEMENTS OF COST:

Labor
Materials
ODC's (Travel)

b. TECHNICAL CONTENT:

This element provides for technical oversight, project execution and coordination of all Office of Science and Technology (OST) sponsored improved measurement and monitoring ASTD project. This package shall provide for the necessary procurement, project execution, report writing, tracking, and data collection required by the ASTD project Technical Task Plan (TTP) OH10DD31.

c. SCOPE OF WORK:

This work scope involves support of the remote prismless total station surveying instrument. Provides management, oversight and report preparation associated with this project. Provide for travel as necessary for investigation or training for a successful deployment. Provide for purchasing materials. Compile feedback (photos, video, booths, etc.) from the survey group and issue a summary report on the deployment.

d. WORK SPECIFICALLY EXCLUDED:

This work scope does not include capital expenditures or any work activities not included in TTP # OH10DD31.

Project Manager <i>[Signature]</i> FOR PAUL PETTIT TIM MILLER	Control Account Manager <i>[Signature]</i>	Control Team Manager <i>[Signature]</i>
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WORK SCOPE DEFINITION
(Work Package)

1. PROJECT TITLE FEMP (NON-DEFENSE)		2. DATE 12/01/2000	Page 1
3. WBS ELEMENT CODE 1.2.A		4. WBS ELEMENT TITLE/NAME TECHNOLOGY DEVELOPMENT PROGRAM	
5. PERFORMING DIV/DEPARTMENT CODE 45	6. ORIGINATOR NAME/PHONE TIM MILLER / 648-6369	7. WBS ELEMENT MANAGER PAUL PETTIT	
8. BUDGET AND REPORTING NUMBER EW4010000		9. BUDGET TITLE TREATMENT & REMEDIATION TECHNOLOGY SYSTEM	
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE? NEW PER CP# FY01-0115-0000-01		11. ESTIMATED START / COMPLETION DATE 12/01/00 - 12/31/01	
12. TASK IDENTIFICATION (WORK PACKAGE) PAMM2	13. TASK DESCRIPTION (ONE LINE) REAL TIME PHYSIOLOGICAL MONITORING SYSTEM		

14. ELEMENT TASK DESCRIPTION

a. ELEMENTS OF COST:

Labor
Materials
Subcontractors
ODC's

b. TECHNICAL CONTENT:

This element provides for technical oversight, project execution and coordination of all Office of Science and Technology (OST) sponsored improved measurement and monitoring ASTD project. This package shall provide for the necessary procurement, project execution, report writing, tracking, and data collection required by the ASTD project Technical Task Plan (TTP) OH10DD31.

c. SCOPE OF WORK:

This work scope involves support of the Real Time Physiological Monitoring System. Provide management, oversight and report preparation associated with this project. Prepare, obtain authorization and issue requisition to procure Physiological Monitoring System. Provide for travel as necessary for investigation and training for a successful deployment. Provide for obtaining services from subcontractors and purchasing materials. Compile feedback (photos, video, booths, etc.) from the end users (Silos Project) and issue a summary report on the deployment.

d. WORK SPECIFICALLY EXCLUDED:

Project Manager <i>Tim Miller</i> FOR TIM MILLER	Control Account Manager <i>Paul J. Pettit</i>	Control Team Manager <i>Linda W. Weste</i>
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WORK SCOPE DEFINITION
(Work Package)

1. PROJECT TITLE FEMP (NON-DEFENSE)		2. DATE 12/01/2000	Page 2
3. WBS ELEMENT CODE 1.2.A	4. WBS ELEMENT TITLE/NAME TECHNOLOGY DEVELOPMENT PROGRAM		
5. PERFORMING DIV/DEPARTMENT CODE 45	6. ORIGINATOR NAME/PHONE TIM MILLER / 648-6369	7. WBS ELEMENT MANAGER PAUL PETTIT	
8. BUDGET AND REPORTING NUMBER EW4010000	9. BUDGET TITLE TREATMENT & REMEDIATION TECHNOLOGY SYSTEM		
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE? NEW PER CP# FY01-0115-0000-01		11. ESTIMATED START / COMPLETION DATE 12/01/00 - 12/31/01	
12. TASK IDENTIFICATION (WORK PACKAGE) PAMM2	13. TASK DESCRIPTION (ONE LINE) REAL TIME PHYSIOLOGICAL MONITORING SYSTEM		

14. ELEMENT TASK DESCRIPTION
This work scope does not include capital expenditures or any work activities not included in TTP # OH10DD31.

WORK SCOPE DEFINITION
(Work Package)

1. PROJECT TITLE FEMP (NON-DEFENSE)		2. DATE 12/01/2000	Page 1
3. WBS ELEMENT CODE 1.2.A	4. WBS ELEMENT TITLE/NAME TECHNOLOGY DEVELOPMENT PROGRAM		
5. PERFORMING DIV/DEPARTMENT CODE 45	6. ORIGINATOR NAME/PHONE TIM MILLER / 648-6369	7. WBS ELEMENT MANAGER PAUL PETTIT	
8. BUDGET AND REPORTING NUMBER EW4010000	9. BUDGET TITLE TREATMENT & REMEDIATION TECHNOLOGY SYSTEM		
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE? NEW PER CP# FY01-0115-0000-01		11. ESTIMATED START / COMPLETION DATE 12/01/00 - 12/31/01	
12. TASK IDENTIFICATION (WORK PACKAGE) PAMM3	13. TASK DESCRIPTION (ONE LINE) INTEGRATED WIRELESS RADON MONITORING SYSTEM		
14. ELEMENT TASK DESCRIPTION			
<p><u>a. ELEMENTS OF COST:</u></p> <p>Labor Materials Subcontractors ODC's</p> <p><u>b. TECHNICAL CONTENT:</u></p> <p>This element provides for technical oversight, project execution and coordination of all Office of Science and Technology (OST) sponsored improved Measurement and Monitoring ASTD project. This package shall provide for the necessary procurement, project execution, report writing, tracking, and data collection required by the ASTD project Technical Task Plan (TTP) OH10DD31.</p> <p><u>c. SCOPE OF WORK:</u></p> <p>This work scope involves support of the Integrated Wireless Radon Monitoring System. Provide management, oversight, and report preparation associated with this project. Prepare, obtain authorization to award a contract in response to the Request for Proposal. Provide for travel as necessary for investigation, procurement and training for a successful deployment. Compile feedback (photos, video, booths, etc) from the Environmental Monitoring group and issue a summary report on the initial deployment.</p> <p><u>d. WORK SPECIFICALLY EXCLUDED:</u></p> <p>This work scope does not include capital expenditures or any work activities not</p>			
Project Manager <i>Paul J. Pettit</i>	Control Account Manager <i>Paul J. Pettit</i>	Control Team Manager <i>Cheryl Brown for Teresa Wofford</i>	

WORK SCOPE DEFINITION
(Work Package)

1. PROJECT TITLE FEMP (NON-DEFENSE)		2. DATE 12/01/2000	Page 2
3. WBS ELEMENT CODE 1.2.A	4. WBS ELEMENT TITLE/NAME TECHNOLOGY DEVELOPMENT PROGRAM		
5. PERFORMING DIV/DEPARTMENT CODE 45	6. ORIGINATOR NAME/PHONE TIM MILLER / 648-6369	7. WBS ELEMENT MANAGER PAUL PETTIT	
8. BUDGET AND REPORTING NUMBER EW4010000	9. BUDGET TITLE TREATMENT & REMEDIATION TECHNOLOGY SYSTEM		
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE? NEW PER CP# FY01-0115-0000-01		11. ESTIMATED START / COMPLETION DATE 12/01/00 - 12/31/01	
12. TASK IDENTIFICATION (WORK PACKAGE) PAMM3	13. TASK DESCRIPTION (ONE LINE) INTEGRATED WIRELESS RADON MONITORING SYSTEM		
14. ELEMENT TASK DESCRIPTION included in TTP # OH10DD31.			

**WORK SCOPE DEFINITION
(Control Account)**

1. PROJECT TITLE FEMP (NON-DEFENSE)		2. DATE 12/01/2000	Page 1
3. WBS ELEMENT CODE 1.2.A	4. WBS ELEMENT TITLE/NAME TECHNOLOGY DEVELOPMENT PROGRAM		
5. PERFORMING DIV/DEPARTMENT CODE 45	6. ORIGINATOR NAME/PHONE TIM MILLER / 648-6369	7. WBS ELEMENT MANAGER PAUL PETTIT	
8. BUDGET AND REPORTING NUMBER EW4010000	9. BUDGET TITLE TREATMENT & REMEDIATION TECHNOLOGY SYSTEM		
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE? NEW PER CP# FY01-0115-0000-01		11. ESTIMATED START / COMPLETION DATE 12/01/00 - 09/30/01	
12. TASK IDENTIFICATION (CONTROL ACCOUNT) PAQF	13. TASK DESCRIPTION (ONE LINE) AQUIFER FLUSHING		
14. ELEMENT TASK DESCRIPTION a. ELEMENTS OF COST: Labor Subcontracts ODCs b. TECHNICAL CONTENT: This element provided for technical oversight and coordination of an Office of Science and Technology (OST) sponsored activity at Fernald for the development of a new technology application of in situ leaching techniques, for use in environmental remediation at Fernald. c. SCOPE OF WORK: The work scope involves activities that will bring this project to an end and then redirect the remaining funds to another ASTD project. Provide management and typical CAM duties of this account. d. WORK SPECIFICALLY EXCLUDED: None.			

Project Manager

T. Miller FOR

TIM MILLER

Control Account Manager

Paul G. Pettit

Control Team Manager

Linda W. Waste

WORK SCOPE DEFINITION
(Work Package)

1. PROJECT TITLE FEMP (NON-DEFENSE)		2. DATE 12/01/2000	Page 1
3. WBS ELEMENT CODE 1.2.A	4. WBS ELEMENT TITLE/NAME TECHNOLOGY DEVELOPMENT PROGRAM		
5. PERFORMING DIV/DEPARTMENT CODE 45	6. ORIGINATOR NAME/PHONE TIM MILLER / 648-6369	7. WBS ELEMENT MANAGER PAUL PETTIT	
8. BUDGET AND REPORTING NUMBER EW4010000	9. BUDGET TITLE TREATMENT & REMEDIATION TECHNOLOGY SYSTEM		
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE? NEW PER CP# FY01-0115-0000-01		11. ESTIMATED START / COMPLETION DATE 12/01/00 - 09/30/01	
12. TASK IDENTIFICATION (WORK PACKAGE) PAQF1	13. TASK DESCRIPTION (ONE LINE) AQUIFER FLUSHING		

14. ELEMENT TASK DESCRIPTION

a. ELEMENTS OF COST:

Labor
Subcontracts
ODC's

b. TECHNICAL CONTENT:

Provide management and oversight as necessary to close out and redirect funds and efforts to another ASTD project yet to be decided. Work with Fluor Fernald Cost Control Department to officially close the account.

c. SCOPE OF WORK:

This scope of work includes contacting the subcontractor developing the IISR, and distributing the report to involved parties.

Issuing a close out letter for this project and closing all open charge numbers associated with it.

Final investigations related to plugging of injection wells and summary of those findings.

Other tasks include submitting monthly updates and budget/variance reports and providing typical CAM duties until official termination of project.

Provide project update (if requested) to DOE Focus Area.

Project Manager <i>D. J. Hill</i> FOR TIM MILLER	Control Account Manager <i>Paul Pettit</i>	Control Team Manager <i>Linda Weeste</i>
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WORK SCOPE DEFINITION
(Work Package)

1. PROJECT TITLE FEMP (NON-DEFENSE)		2. DATE 12/01/2000	Page 2
3. WBS ELEMENT CODE 1.2.A	4. WBS ELEMENT TITLE/NAME TECHNOLOGY DEVELOPMENT PROGRAM		
5. PERFORMING DIV/DEPARTMENT CODE 45	6. ORIGINATOR NAME/PHONE TIM MILLER / 648-6369	7. WBS ELEMENT MANAGER PAUL PETTIT	
8. BUDGET AND REPORTING NUMBER EW4010000	9. BUDGET TITLE TREATMENT & REMEDIATION TECHNOLOGY SYSTEM		
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE? NEW PER CP# FY01-0115-0000-01		11. ESTIMATED START / COMPLETION DATE 12/01/00 - 09/30/01	
12. TASK IDENTIFICATION (WORK PACKAGE) PAQF1	13. TASK DESCRIPTION (ONE LINE) AQUIFER FLUSHING		

14. ELEMENT TASK DESCRIPTION

d. WORK SPECIFICALLY EXCLUDED:

All work activities not included in TTP # OH18SS40.

**WORK SCOPE DEFINITION
(Control Account)**

1. PROJECT TITLE FEMP (NON-DEFENSE)		2. DATE 12/01/2000	Page 1
3. WBS ELEMENT CODE 1.2.A	4. WBS ELEMENT TITLE/NAME TECHNOLOGY DEVELOPMENT PROGRAM		
5. PERFORMING DIV/DEPARTMENT CODE 45	6. ORIGINATOR NAME/PHONE JOAN WHITE / 648-5026	7. WBS ELEMENT MANAGER PAUL PETTIT	
8. BUDGET AND REPORTING NUMBER EW4010000	9. BUDGET TITLE TREATMENT & REMEDIATION TECHNOLOGY SYSTEM		
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE? CHANGE PER CP# FY01-0115-0000-01		11. ESTIMATED START / COMPLETION DATE 12/01/00 - 09/30/03	
12. TASK IDENTIFICATION (CONTROL ACCOUNT) PAST	13. TASK DESCRIPTION (ONE LINE) D&D INTEGRATED EXCAVATION CONTROL SYSTEM		

14. ELEMENT TASK DESCRIPTION

a. ELEMENTS OF COST:

Labor
Materials
Subcontracts
ODCs

b. TECHNICAL CONTENT:

Provide management and oversight of this Office of Science and Technology (OST) sponsored activity at Fernald to implement the Integrated Excavation Control System (IECS) project. A portion of this Deactivation and Decommissioning focus area (DDFA) ASTD funding is being directed to three partners (EML, ANL, & INEEL) to provide technical support. Technology Program cost management for this account will continue through FY 2003.

For further detail, refer to Technical Task Plans OH11DD31 and OH19DD61.

c. SCOPE OF WORK:

Support the work elements as defined in Technical Task Plan OH19DD61 and OH11DD31 which includes providing successful implementation and subsequent redeployment of an Integrated Excavation Control System (IECS).

FY01 work includes reviewing design and fabrication documents, attending periodic project meeting, and resolving technical issues related to the IECS.

Track and report monthly activities and spending for Fernald as well as Partners as required by this ASTD project.

Project Manager <i>Joan White</i>	Control Account Manager <i>Paul J. Pettit</i>	Control Team Manager <i>Linda Weste</i>
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WORK SCOPE DEFINITION
(Control Account)

1. PROJECT TITLE FEMP (NON-DEFENSE)		2. DATE 12/01/2000	Page 2
3. WBS ELEMENT CODE 1.2.A	4. WBS ELEMENT TITLE/NAME TECHNOLOGY DEVELOPMENT PROGRAM		
5. PERFORMING DIV/DEPARTMENT CODE 45	6. ORIGINATOR NAME/PHONE JOAN WHITE / 648-5026	7. WBS ELEMENT MANAGER PAUL PETTIT	
8. BUDGET AND REPORTING NUMBER EW4010000	9. BUDGET TITLE TREATMENT & REMEDIATION TECHNOLOGY SYSTEM		
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE? CHANGE PER CP# FY01-0115-0000-01		11. ESTIMATED START / COMPLETION DATE 12/01/00 - 09/30/03	
12. TASK IDENTIFICATION (CONTROL ACCOUNT) PAST	13. TASK DESCRIPTION (ONE LINE) D&D INTEGRATED EXCAVATION CONTROL SYSTEM		

14. ELEMENT TASK DESCRIPTION

d. WORK SPECIFICALLY EXCLUDED:

Work that directly supports the Mobile Work Platform scope of work as defined in TTP OH19DD61.

WORK SCOPE DEFINITION
(Work Package)

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3. WBS ELEMENT CODE 1.2.A	4. WBS ELEMENT TITLE/NAME TECHNOLOGY DEVELOPMENT PROGRAM		
5. PERFORMING DIV/DEPARTMENT CODE 45	6. ORIGINATOR NAME/PHONE TIM MILLER / 648-6369	7. WBS ELEMENT MANAGER PAUL PETTIT	
8. BUDGET AND REPORTING NUMBER EW4010000	9. BUDGET TITLE TREATMENT & REMEDIATION TECHNOLOGY SYSTEM		
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE? NEW PER CP# FY01-0115-0000-01		11. ESTIMATED START / COMPLETION DATE 12/01/00 - 09/30/01	
12. TASK IDENTIFICATION (WORK PACKAGE) PAST1	13. TASK DESCRIPTION (ONE LINE) MOBILE WORK PLATFORM		

14. ELEMENT TASK DESCRIPTION

a. ELEMENTS OF COST:

Labor
Subcontracts
ODC's (Travel)

b. TECHNICAL CONTENT:

Provide cost account management and project support as necessary to implement the IECS. Provide any miscellaneous support as needed to ensure success of this ASTD project.

c. SCOPE OF WORK:

Review and comment on the design and fabrication plans for the Excavator Monitoring System (EMS) which is a component of the Integrated Excavator Control System (IECS).

Attend periodic planning meetings and provide miscellaneous support to the IECS project.

Other tasks include providing typical CAM duties.

d. WORK SPECIFICALLY EXCLUDED:

Work that directly supports the Mobile Work Platform scope of work as defined in TTP OH19DD61.

Project Manager <i>L. J. Gillin FOR TIM MILLER</i>	Control Account Manager <i>Paul G. Pettit</i>	Control Team Manager <i>Linda Weste</i>
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**WORK SCOPE DEFINITION
(Control Account)**

1. PROJECT TITLE FEMP (NON-DEFENSE)		2. DATE 12/01/2000	Page 1
3. WBS ELEMENT CODE 1.2.A		4. WBS ELEMENT TITLE/NAME TECHNOLOGY DEVELOPMENT PROGRAM	
5. PERFORMING DIV/DEPARTMENT CODE 45		6. ORIGINATOR NAME/PHONE JOAN WHITE / 648-5026	7. WBS ELEMENT MANAGER PAUL PETTIT
8. BUDGET AND REPORTING NUMBER EW4010000		9. BUDGET TITLE TREATMENT & REMEDIATION TECHNOLOGY SYSTEM	
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE? NEW PER CP# FY01-0115-0000-01			11. ESTIMATED START / COMPLETION DATE 12/01/00 - 09/30/01
12. TASK IDENTIFICATION (CONTROL ACCOUNT) PASW		13. TASK DESCRIPTION (ONE LINE) SOILS PROJECT TDI REAL-TIME SYSTEM DEVELOPMENT	
14. ELEMENT TASK DESCRIPTION			
<p><u>a. ELEMENTS OF COST:</u></p> <p>Labor Material Subcontracts Travel ODCs</p> <p><u>b. TECHNICAL CONTENT:</u></p> <p>This Control Account authorizes work to be performed as identified in the plan "Deployment of an Integrated Technology Suite for Cost Effectively Delineating Contamination in Soils in Support of Soil Remedial Actions", by DOE, Rev. 0.0, dated 10/31/97. (Name of DOE HQ program changed from Technology Deployment Initiative (TDI) to Accelerated Site Technology Deployment (ASTD)).</p> <p>Field deployable and real-time gamma spectrometry equipment is currently in use in the FEMP Soil Characterization and Excavation Project (SCEP) to identify and quantify radio nuclide contaminants in conjunction with the following categories of remediation decisions:</p> <ul style="list-style-type: none"> - Pre-Excavation Engineering Design- Soils identified as above Waste Acceptance Criteria (WAC) or above Final Remediation Level (FRL) are delineated so that detailed excavation engineering designs can be developed. - Excavation Monitoring- Soils are identified as not-contaminated, contaminated and acceptable for placement in the On-Site Disposal Facility, or contaminated and requiring segregation for possible offsite shipment. - Pre-Certification- Soils are identified as non-contaminated and ready for certification or as containing "hot spots" requiring additional excavation prior to certification. - A 4th possible category of decision involves certification of remediated soils. Work to answer specific gamma spectrometry questions associated with 			
Project Manager <i>Joan White</i>		Control Account Manager <i>Paul Pettit</i>	
		Control Team Manager <i>Linda Weste</i>	

**WORK SCOPE DEFINITION
(Control Account)**

1. PROJECT TITLE FEMP (NON-DEFENSE)		2. DATE 12/01/2000	Page 2
3. WBS ELEMENT CODE 1.2.A	4. WBS ELEMENT TITLE/NAME TECHNOLOGY DEVELOPMENT PROGRAM		
5. PERFORMING DIV/DEPARTMENT CODE 45	6. ORIGINATOR NAME/PHONE JOAN WHITE / 648-5026	7. WBS ELEMENT MANAGER PAUL PETTIT	
8. BUDGET AND REPORTING NUMBER EW4010000	9. BUDGET TITLE TREATMENT & REMEDIATION TECHNOLOGY SYSTEM		
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE? NEW PER CP# FY01-0115-0000-01		11. ESTIMATED START / COMPLETION DATE 12/01/00 - 09/30/01	
12. TASK IDENTIFICATION (CONTROL ACCOUNT) PASW	13. TASK DESCRIPTION (ONE LINE) SOILS PROJECT TDI REAL-TIME SYSTEM DEVELOPMENT		

14. ELEMENT TASK DESCRIPTION

certification issues will be studied and documented for regulatory agencies with the desire to use spectrometry for soil certification in the near future.

In FY98, Phase II of the ASTD initiative was successfully completed. In Phase I, software and hardware packages were developed and tested to provide instant data analysis and linkage between gamma spectrometry software, positioning software, quality control software, and mapping software for rapid and accurate decision making in the field.

In FY99, Phase II of the ASTD initiative will be implemented and the following activities will take place:

- Additional improvements in software will be made to the Radiation Tracking/Radiation Scanning Systems (RTRAK/RSS) and High-Purity Germanium (HPGe) systems to further automate quality control parameters.
- A Gator mounted NaI scanning tool will be outfitted for hardware and software and tested for field readiness.
- Studies will be carried out to determine the best method to deploy in-situ gamma spectrometry in situations involving unusual geometries of radio nuclide contaminated soil or debris.
- A telescoping HPGe mount will be engineered, constructed, field tested, reported on, and implemented to allow for scanning of steep slopes and narrow ditches.
- Calibration sources will be procured, tests will be performed and reported on for calibration of the HPGe and NaI systems.

Savings to DOE will be specifically realized by:

- reducing high-cost, off-site lab analysis and delays
- reducing the number of physical samples required with resulting costs and time delays
- reducing field operations delays and stand-by expenses while awaiting laboratory analysis results
- enabling the accelerated remediation plan to be met.

Following implementation of the TDI funded technologies, deployment is proposed at all the remaining Fernald remediation areas. Redeployment will also be pursued at partner sites.

**WORK SCOPE DEFINITION
(Control Account)**

1. PROJECT TITLE FEMP (NON-DEFENSE)		2. DATE 12/01/2000	Page 3
3. WBS ELEMENT CODE 1.2.A		4. WBS ELEMENT TITLE/NAME TECHNOLOGY DEVELOPMENT PROGRAM	
5. PERFORMING DIV/DEPARTMENT CODE 45	6. ORIGINATOR NAME/PHONE JOAN WHITE / 648-5026	7. WBS ELEMENT MANAGER PAUL PETTIT	
8. BUDGET AND REPORTING NUMBER EW4010000		9. BUDGET TITLE TREATMENT & REMEDIATION TECHNOLOGY SYSTEM	
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE? NEW PER CP# FY01-0115-0000-01			11. ESTIMATED START / COMPLETION DATE 12/01/00 - 09/30/01
12. TASK IDENTIFICATION (CONTROL ACCOUNT) PASW		13. TASK DESCRIPTION (ONE LINE) SOILS PROJECT TDI REAL-TIME SYSTEM DEVELOPMENT	

c. SCOPE OF WORK:

The following individual work scopes comprise this control account:

- Real-time system development
- Procedure development/modification and training
- Real-time equipment hardware and software procurement
- Field testing of equipment hardware and software
- Technical development reporting
- Cost, schedule, and work scope tracking and reporting identified in the ASTD Deployment Plan
- Presentations to regulators and stakeholders

This work scope also includes all activities that adapt, limit, improve, modify, and optimize the performance of real-time technologies in order to ensure their routine deployment in all FEMP soil remediation areas.

d. WORK SPECIFICALLY EXCLUDED:

Work not related to the Deployment Plan.

WORK SCOPE DEFINITION
(Work Package)

1. PROJECT TITLE FEMP (NON-DEFENSE)		2. DATE 12/01/2000	Page 1
3. WBS ELEMENT CODE 1.2.A	4. WBS ELEMENT TITLE/NAME TECHNOLOGY DEVELOPMENT PROGRAM		
5. PERFORMING DIV/DEPARTMENT CODE 45	6. ORIGINATOR NAME/PHONE JOAN WHITE / 648-5026	7. WBS ELEMENT MANAGER PAUL PETTIT	
8. BUDGET AND REPORTING NUMBER EW4010000	9. BUDGET TITLE TREATMENT & REMEDIATION TECHNOLOGY SYSTEM		
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE? NEW PER CP# FY01-0115-0000-01		11. ESTIMATED START / COMPLETION DATE 12/01/00 - 09/30/01	
12. TASK IDENTIFICATION (WORK PACKAGE) PASW1	13. TASK DESCRIPTION (ONE LINE) TECHNOLOGY DEVELOPMENT (TDI) REAL-TIME SYSTEM DEVELOPMENT		

14. ELEMENT TASK DESCRIPTION

a. ELEMENTS OF COST:

Labor
Subcontracts
Material
ODCs
Travel

b. TECHNICAL CONTENT:

This Work package provides for hours for FEMP personnel to work with INEEL to ensure a successful deployment of the real time soil radiation detection system improvements identified in the Deployment Plan and in the 9ASW Control Account Work Scope Definition. Through this account the ASTD initiative will be managed.

c. SCOPE OF WORK:

The following work scope through FY99 includes tasks that will be performed for the development of real-time radiation detection equipment in support of the site wide soil characterization effort at the FEMP as identified in the TDI Deployment Plan:

- Engineer, construct, and test a more versatile mount for the HPGe detector system which would allow tilting the detectors at various angles to the ground surface and/or lowering the detectors into depressions in the soil, such as ditches.
- Test Gator NaI system for comparability with Radiation Tracking (RTRAK) and Radiation Scanning (RSS) systems.
- Erect a pre-fab building to protect sensitive ASTD crystals and equipment (including all site prep, materials and labor).

Project Manager <i>Joan White</i>	Control Account Manager <i>Paul Pettit</i>	Control Team Manager <i>Linda Wroste</i>
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WORK SCOPE DEFINITION
(Work Package)

1. PROJECT TITLE FEMP (NON-DEFENSE)		2. DATE 12/01/2000	Page 2
3. WBS ELEMENT CODE 1.2.A	4. WBS ELEMENT TITLE/NAME TECHNOLOGY DEVELOPMENT PROGRAM		
5. PERFORMING DIV/DEPARTMENT CODE 45	6. ORIGINATOR NAME/PHONE JOAN WHITE / 648-5026	7. WBS ELEMENT MANAGER PAUL PETTIT	
8. BUDGET AND REPORTING NUMBER EW4010000	9. BUDGET TITLE TREATMENT & REMEDIATION TECHNOLOGY SYSTEM		
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE? NEW PER CP# FY01-0115-0000-01		11. ESTIMATED START / COMPLETION DATE 12/01/00 - 09/30/01	
12. TASK IDENTIFICATION (WORK PACKAGE) PASW1	13. TASK DESCRIPTION (ONE LINE) TECHNOLOGY DEVELOPMENT (TDI) REAL-TIME SYSTEM DEVELOPMENT		

14. ELEMENT TASK DESCRIPTION

- Perform additional qualification work for use of RTRAK and HPGe detectors in the certification process in order to gain regulatory approval.
- Perform studies to implement direct calibration methods for RTRAK and HPGe systems.
- Identify and develop software improvements made to existing and new real time systems.
- Procedure generation/revision/training for equipment and work processes associated with ASTD improvements.
- Management of FEMP ASTD work scope.
- Perform presentations to regulators and stockholders.
- Develop a Lessons Learned document based upon A2P1 deployment experience.
- Travel to make status update presentation to regulators, as needed.

This work scope also includes all activities that adapt, link, improve, modify, and optimize the improvement of real-time technologies in order to ensure their routine deployment in all FEMP soil remediation areas.

The following work scope in FY00 includes the following:

- Software service support for FDF Interface/Testing, including on-going NaI and HPGe system process improvements, automation of core counter (sequential core interval measurements), and automation of Radon monitor.
- Direct calibration planning and direct calibration of equipment, including issuance of plans, testing for source strength/specify source, procurement of Bi and Cs sources, testing of source layouts, and calibration of each NaI system on the pad.
- Labview software management training, including Interactive training course and labview school for two FDF employees.
- Documentation of the direct calibration, including data management, issuance of draft calibration report, comment resolution, and issuance of the final report.
- Administration related to above.

d. WORK SPECIFICALLY EXCLUDED:

Non ASTD related work, Equipment hardware and software procurement or all work

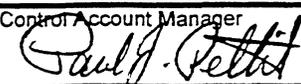
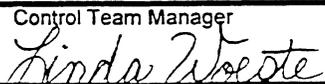
WORK SCOPE DEFINITION
(Work Package)

1. PROJECT TITLE FEMP (NON-DEFENSE)		2. DATE 12/01/2000	Page 3
3. WBS ELEMENT CODE 1.2.A	4. WBS ELEMENT TITLE/NAME TECHNOLOGY DEVELOPMENT PROGRAM		
5. PERFORMING DIV/DEPARTMENT CODE 45	6. ORIGINATOR NAME/PHONE JOAN WHITE / 648-5026	7. WBS ELEMENT MANAGER PAUL PETTIT	
8. BUDGET AND REPORTING NUMBER EW4010000	9. BUDGET TITLE TREATMENT & REMEDIATION TECHNOLOGY SYSTEM		
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE? NEW PER CP# FY01-0115-0000-01		11. ESTIMATED START / COMPLETION DATE 12/01/00 - 09/30/01	
12. TASK IDENTIFICATION (WORK PACKAGE) PASW1	13. TASK DESCRIPTION (ONE LINE) TECHNOLOGY DEVELOPMENT (TDI) REAL-TIME SYSTEM DEVELOPMENT		

14. ELEMENT TASK DESCRIPTION

activities not included in TTP # OH08SD10.

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8. BUDGET AND REPORTING NUMBER EW4040000	9. BUDGET TITLE TECHNOLOGY ACCEPTANCE & SUPPORT		
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE? NEW PER CP# FY01-0115-0000-01		11. ESTIMATED START / COMPLETION DATE 12/01/00 - 12/30/06	
12. TASK IDENTIFICATION (CONTROL ACCOUNT) PATP	13. TASK DESCRIPTION (ONE LINE) TPO SUPPORT		
14. ELEMENT TASK DESCRIPTION			
<p><u>a. ELEMENTS OF COST:</u></p> <p>Labor Materials Subcontracts ODCs</p> <p><u>b. TECHNICAL CONTENT:</u></p> <p>This element provides for technical oversight and coordination of all Office of Science and Technology (OST) sponsored activities at Fernald. It also provides for the identification and facilitation of opportunities and requirements to develop new technology, transfer OST-developed technology from other sites to Fernald, and for the dissemination of technology developed at Fernald. Activities of the Site Technology Coordination Group (STCG) will focus on these objectives.</p> <p><u>c. SCOPE OF WORK:</u></p> <p>The work scope involves support of OST programs at Fernald and in the field and STCG activities to serve as contact for OST management of tasks and for interfacing with site operations groups and with regional institutions. Specific tasks are outlined below:</p> <p>Provide for the single point of contact for each field office contractor for preparation, review, and approval of Technical Task Plans, proposals, monthly reports (specifically, input to the Progress Tracking System), and other administrative documents submitted by principle investigators.</p> <p>Coordinate development and control of scope, budget, and schedule for program</p>			
Project Manager 	Control Account Manager 	Control Team Manager 	

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14. ELEMENT TASK DESCRIPTION			
<p>areas funded by OST. Review all internal management plans. Provide final Fluor Fernald or contractor approvals within the change control system established by OST tasks. Provide ongoing monthly analysis of budget and schedule performance for programs.</p> <p>Act as the single point of contact between other OST components and Fluor Fernald for resolution of quality, budget, scope, or schedule issues for technical tasks.</p> <p>Provide briefings to the TPO and other field office staff and to OST to report progress and identify problems requiring resolution. Briefings could include Quarterly Reviews, Mid-Year Reviews, and various one-time briefings and other reports, such as carry-over summaries as requested by the TPO. This involves an estimated six documents.</p> <p>Provide Programmatic reviews and approve all OST deliverables and technical reports in conjunction with normal line management approvals and distribute all deliverables appropriately.</p> <p>Provide support for unanticipated tasks that are requested by DOE. Provide training to PIs for IPABS, Technical Task Plan preparation, cost/budget analysis, and budgetary reporting. Develop agendas and presentation material and make other arrangements.</p> <p>Using established site procedures, work with off-site contractors, other Federal agencies, or private industry on demonstrations within individual OST technology tasks. This may include technical direction, status reporting, or coordination of joint technical teams.</p> <p>Provide interface between individual Principle Investigators, local field office staff, and OST staff to ensure timely preparation and approval of test plans, health and safety plans, QA plans, sampling and analysis plans, and other documentation. Ensure that required permits for OST tasks are submitted through proper channels to local regulators.</p> <p>Coordinate OST effort in such a way as to enable the PIs to devote a maximum amount of time to the technical work and to minimize tasks of an administrative</p>			

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14. ELEMENT TASK DESCRIPTION			
<p>nature. Screen unanticipated requests, coordinate the IPABS reporting, handle routine communications with HQ.</p> <p>The STCG will maintain frequent interactions with the Fluor Fernald projects, DOE-FEMP, WM, and ER programs to help them identify technology needs. Communicate those needs and timing. Conduct this function within focus areas formal needs identification initiatives and through direct communication to the Focus Area and DOE-HQ, as appropriate. The STCG coordinator will conduct a yearly Focus Area needs review meeting for Fernald, and other OA sites if desired by the DOE TPO.</p> <p>Support briefings by OST and field office staff or conduct briefings at their requests on Fernald's needs and technology development activities to outside organizations such as universities, industry, or other Federal agencies. Disseminate appropriate technical information and reports to other sites, through STCG contacts.</p> <p>Ensure that OST Program Guidance and direction and needs are effectively communicated throughout the Fluor Fernald organization. Ensure coordination with other contractor work that is closely related to OST program activities.</p> <p>Participate as requested by OST and TPO in beneficial meetings, conference calls, or workshops to communicate field experience in management in implementation areas; serve on OST committees.</p> <p>Serve as the single point of contact with Focus Areas to ensure work is completed and reported within requirements, fund some of the networking support to the Focus Areas operations, and identify new technologies that meet site and Focus Areas needs.</p> <p>Provide information and technical experts as requested to support FDF and DOE field office briefings to state and local regulators on the OST activities.</p> <p>Act as resource for identifying and managing work scope of qualified technical staff requested for participation in OST planning activities, development of operational and technology road maps, technology working groups, and other OST efforts conducted within contractor-specific procedures.</p>			

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12. TASK IDENTIFICATION (CONTROL ACCOUNT) PATP	13. TASK DESCRIPTION (ONE LINE) TPO SUPPORT		

14. ELEMENT TASK DESCRIPTION

Support the technical programmatic review of OST planning documents, guidance, and other documentation at the request of the TPO.

Assist in the identification of technical staff needed by OST tasks and approve the assignment of Task Managers and other key technical staff.

Provide project controls and scheduling for the above activities.

This account will cover costs incurred by engineering services subcontractor while performing support needed to accomplish technical work tasks within Non-MSA Technology Programs.

- Project Management
- Administrative Services
- Financial Services
- Technical Services
- Mobilization
- Bench Time
- Other Expense

d. WORK SPECIFICALLY EXCLUDED:

This effort does not include Capital expenses.

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12. TASK IDENTIFICATION (WORK PACKAGE) PATP1	13. TASK DESCRIPTION (ONE LINE) TPO SUPPORT		

14. ELEMENT TASK DESCRIPTION

a. ELEMENTS OF COST:

Labor
Materials
ODCs
Subcontractors

b. TECHNICAL CONTENT:

This element provides for technical oversight and coordination of all Office of Science and Technology (OST) sponsored activities at Fernald and for the identification and facilitation of opportunities to develop new technology, transfer OST-developed technology from other sites to Fernald, and for dissemination of technology developed at Fernald. Activities of the Site Technology Coordination Group (STCG) will focus on these objectives.

c. SCOPE OF WORK:

The work scope involves support of OST programs at Fernald and in the field and STCG will serve as contact for OST management of tasks and for interfacing with site operations groups and with regional institutions. Specific tasks are outlined below:

Provide the single point of contact for each field office contractor for preparation, review, and approval of Technical Task Plans, proposals, monthly reports (specifically, input to the Integrated Planning and Budgeting System), and other administrative documents submitted by principle investigators.

Coordinate development and control of scope, budget, and schedule for program areas funded by OST. Review all internal management plans. Provide final Fluor

Project Manager <i>L. J. Gilbr</i>	Control Account Manager <i>Paul M. Pettit</i>	Control Team Manager <i>Linda W. Weste</i>
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14. ELEMENT TASK DESCRIPTION			
<p>Fernald approvals within the change control system established by OST tasks. Provide ongoing monthly analysis of budget and schedule performance for the programs.</p> <p>Act as the single point of contact between other OST components and Fluor Fernald for resolution of quality, budget, scope, or schedule issues for technical tasks.</p> <p>Provide briefings to the TPO and other field office staff and to OST to report progress and identify problems requiring resolution. Briefings could include Quarterly Reviews, Mid-Year Reviews, and various one-time briefings and other reports, such as carry-over summaries as requested by the TPO. This involves an estimated six documents.</p> <p>Provide Programmatic reviews and approve all OST deliverables and technical reports in conjunction with normal line management approvals and distribute all deliverables appropriately.</p> <p>Provide support for unanticipated tasks that are requested by DOE. This could include initial field work to support any new technology demonstrations, deployments or investigations. Provide training to PIs for IPABS, Technical Tasks Plan preparation, cost/budget analysis, and budgetary reporting. Develop agendas and presentation material and make other arrangements.</p> <p>Using established site procedures, work with off-site contractors, other Federal agencies, or private industry on demonstrations within individual OST technology tasks. This may include technical direction, status reporting, or coordination of joint technical teams.</p> <p>Provide interface between individual Principle Investigators, local field office staff, Focus Area Contacts, and OST staff to ensure timely preparation and approval of test plans, health and safety plans, QA plans, sampling and analysis plans, and other documentation. Ensure that required permits for OST tasks are submitted through proper channels to local regulators.</p> <p>Coordinate the OST effort in such a way as to enable the PIs to devote a maximum amount of time to the technical work and to minimize tasks of an administrative</p>			

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12. TASK IDENTIFICATION (WORK PACKAGE) PATP1	13. TASK DESCRIPTION (ONE LINE) TPO SUPPORT		
14. ELEMENT TASK DESCRIPTION			
<p>nature. Screen unanticipated requests, coordinate the PTS reporting, handle routine communications with HQ.</p> <p>The STCG will maintain frequent interactions with the Fluor Fernald projects, DOE-FEMP, WM, and ER programs to help them identify technology needs. Communicate those needs and timing. Conduct this function within focus areas formal needs identification initiatives and through direct communication to the Focus Area and DOE-HQ, as appropriate.</p> <p>Support briefings by OST and field office staff or conduct briefings at their requests on Fernald's needs and technology development activities to outside organizations such as universities, industry, or other Federal agencies. Disseminate appropriate technical information and reports to other sites; especially through STCG contacts.</p> <p>Ensure that OST Program guidance and direction and needs are effectively communicated throughout the FDF organization. Ensure coordination with other contractor work that is closely related to OST program activities.</p> <p>Participate as requested by OST and TPO in beneficial meetings, conference calls, or workshops to communicate field experience in management and implementation areas; serve on OST committees.</p> <p>Serve as the single point of contact with Focus Areas to ensure work is completed and reported within requirements, fund some of the networking to support Focus Areas operations, and identify new technologies that meet site and Focus Areas needs.</p> <p>Provide information and technical experts as requested to support Fluor Fernald and DOE field office briefings to state and local regulators on the OST activities.</p> <p>Act as resource for identifying and managing work scope of qualified technical staff requested for participation in OST Ten Year Plan activities, development of operational and technology road maps, technology working groups, and other OST efforts conducted within contractor-specific procedures.</p>			

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12. TASK IDENTIFICATION (WORK PACKAGE) PATP1	13. TASK DESCRIPTION (ONE LINE) TPO SUPPORT		

14. ELEMENT TASK DESCRIPTION

Support the technical and programmatic review of OST planning documents, guidance, and other documentation at the request of the TPO.

Assist in the identification of technical staff needed by OST tasks and approve the assignment of Task Managers and other key technical staff.

- This account will cover costs incurred by engineering services subcontractor while performing support needed to accomplish technical work tasks within Non-MSA Technology Programs.

- Project Management
- Administrative Services
- Financial Services
- Technical Services
- Mobilization
- Bench Time
- Other Expense

d. WORK SPECIFICALLY EXCLUDED:

This effort does not include Capital expenses.

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8. BUDGET AND REPORTING NUMBER EW4010000	9. BUDGET TITLE TREATMENT & REMEDIATION TECHNOLOGY SYSTEM
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10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE? NEW PER CP# FY01-0115-0000-01	11. ESTIMATED START / COMPLETION DATE 07/01/01 - 09/30/04
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12. TASK IDENTIFICATION (CONTROL ACCOUNT) PDHS	13. TASK DESCRIPTION (ONE LINE) DRUM HANDLING SYSTEM PROGRAM
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14. ELEMENT TASK DESCRIPTION

a. ELEMENTS OF COST:

Labor
Materials
Subcontracts
ODCs

b. TECHNICAL CONTENT:

This project has three modules of activities that are described in the Technical Task Plan OH11NM21. The overall project plan is to remove Uranium Waste Disposition (UWD) containers from pads and storage locations at Fernald. To achieve this goal improved technology for the inspection, preparation, and processing of FEMP nuclear materials will be deployed. Additionally, the material will be shipped to an off-site facility for recycling into the nuclear fuel cycle.

For Modules 1 and 2, activities for FY2001 relate to design of the equipment and systems for the Automated Inspection Station and Automated Materials Preparation Station. For Module 3, activities for FY2001 relate to defining (characterizing) the feed stream for the Materials Processing Station (pilot facility). Activities in FY2002 through FY2004 relate to design, construction, and operations of the equipment/units in Modules 1, 2, and 3. A separate work scope and charge number for additional deployments will be addressed in a subsequent Change Proposal for FY2002 and FY2003.

A portion of the total FY01 Nuclear Materials Focus Area (NMFA) funding has been directed to two partners (Sandia National Laboratories [SNL] and Los Alamos National Laboratory [LANL]) to provide technical expertise in specific areas. Nuclear Fuel Services, Inc. (NFS) is supporting the project and providing extensive experience processing materials for the Nuclear Navy. This Technical content for Fernald's portion (\$300K) involves the design of Modules 1, 2 and 3

Project Manager <i>Mary L Morse</i>	Control Account Manager <i>Paul J Pettit</i>	Control Team Manager <i>Kinda W. Trestle</i>
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14. ELEMENT TASK DESCRIPTION

and the development of the processing formula. The work scope costs related to design, construction, installation and operation of Modules 1, 2 and 3 will be addressed by Cost Account PDHS (proposed).

For further detail, refer to Technical Task Plan OH11NM21.

c. SCOPE OF WORK:

Complete the work elements as defined in the "new" Technical Task Plan OH11NM21, which provides for successful implementation of an Automated Inspection Station and Automated Materials Preparation Station. The scope of work also includes deployment of a pilot plant for recycling uranium into the nuclear fuel cycle.

FY01 Activities

- Technology Modules 1 & 2 Automated Inspection Station and Automated Materials Preparation Station
- Review Fernald project needs and develop conceptual systems approach to the disposition of nuclear materials in conjunction with the SNL PI for the Automated Packaging of Nuclear Materials project.
 - With SNL and LANL develop a detailed plan for the design of the engineered systems which meet Fernald needs.
 - Investigate thermal sensing capabilities with SNL.
 - Investigate vision system capabilities with SNL
 - Develop the Systems Specifications Package (SSP) for the initial automation blocks, an automated materials inspection station and material preparation station for deployment at Fernald that will serve as the RFP specifications for the equipment materials in conjunction with the SNL PI for the Automated Packaging of Nuclear Materials project.
 - The SNL PI for the Automated Packaging of Nuclear Materials project will coordinate LANL and SNL efforts to provide detailed information for visual systems to document the Fernald materials processed.
 - Incorporation of any relevant sensor based controls developed as a result of the Automated Packaging of Nuclear Materials project will be provided by the SNL PI and will be reviewed by the Fernald project managers, suggestions for

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14. ELEMENT TASK DESCRIPTION

improvements for later deployment will be made

Technology Development for Module 3 Pilot Plant Fissile Materials Processing and Blending Station

- Establish an Industry Partnership between Fluor Fernald Inc. and Nuclear Fuel Services
- Particle analysis and characterization of Fernald materials for development of process knowledge for the third automation block, the materials processing station (pilot facility) for development of the pilot scale treatment process.
- Analytical Methods Development necessary for materials processing at NFS.
- Develop conceptual design for the materials processing station (pilot facility) for deployment at NFS that will serve as the RFP specification for the equipment.

Provide cost account management and project support as necessary to implement the Drum Handling System project. Provide any miscellaneous support as needed to ensure success of this joint project between Fernald, SNL, and LANL.

For further detail, refer to Technical Task Plan OH11NM21.

d. WORK SPECIFICALLY EXCLUDED:

Work not covered under TTP OH11NM21.

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14. ELEMENT TASK DESCRIPTION

a. ELEMENTS OF COST:

Labor
Materials
Subcontracts
ODC

b. TECHNICAL CONTENT:

Provide management and oversight of this DOE OST-sponsored project for nuclear materials stored at Fernald. This technical content for Fernald's portion of work involves the implementation of the Modules 1, 2, and 3. This includes all work scope performed by Fernald personnel relating to the design, testing, modifying and improving the technologies to be used in the Automated Inspection Station, the Automated Materials Preparation Station, and in the Enriched Uranium Metal Material Processing Pilot Plant. This includes any task associated with design and project management activities performed by personnel in Technology Programs, Nuclear Materials, and other Fernald organizations in support of this project.

This technical content also includes all activities, materials, travel associated with the subcontract with NFS for the design of the Enrich Uranium Metal Material Processing Pilot Plant. Technology Program cost management for this account will continue through FY2004.

For further detail, refer to Technical Task Plan OH11NM21.

c. SCOPE OF WORK:

All activities that support the implementation of the DHS.

Project Manager <i>Mary Morse</i>	Control Account Manager <i>Paul Pettit</i>	Control Team Manager <i>Linda Weate</i>
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14. ELEMENT TASK DESCRIPTION

Any support services needed to implement Modules 1, 2, and 3.

Review and comment on the design and fabrication packages for Modules 1, 2, and 3.

Resolution of any technical issues associated with use of Modules 1, and 2.

Acceptance testing of Modules 1,2 and 3 and any supporting materials used in the testing. Travel and miscellaneous support necessary to accomplish the testing and determine the operational effectiveness.

Prepare and issue progress status reports and a report that will summarize the first year's efforts to the focus area.

Work with Control team to set up charge numbers and financially track the project.

Other task includes submitting monthly update and budget/variance reports and providing typical CAM duties.

Work defined in the subcontract with NFS.

Project management activities related to managing and documenting the activities associated with the design of the pilot plan.

Any travel necessary to research equipment or observe demonstrations of equipment or technologies for the DHS.

scope2...

scope3...

d. WORK SPECIFICALLY EXCLUDED:

WORK SCOPE DEFINITION
(Work Package)

1. PROJECT TITLE FEMP (NON-DEFENSE)		2. DATE 06/28/2001	Page 3
3. WBS ELEMENT CODE 1.2.A	4. WBS ELEMENT TITLE/NAME TECHNOLOGY DEVELOPMENT PROGRAM		
5. PERFORMING DIV/DEPARTMENT CODE 45	6. ORIGINATOR NAME/PHONE MARY MORSE / 648-6245	7. WBS ELEMENT MANAGER PAUL PETTIT	
8. BUDGET AND REPORTING NUMBER EW4010000	9. BUDGET TITLE TREATMENT & REMEDIATION TECHNOLOGY SYSTEM		
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE? NEW PER CP# FY01-0115-0000-01		11. ESTIMATED START / COMPLETION DATE 07/01/01 - 09/30/04	
12. TASK IDENTIFICATION (WORK PACKAGE) PDHS1	13. TASK DESCRIPTION (ONE LINE) DRUM HANDLING SYSTEM		

14. ELEMENT TASK DESCRIPTION

Work not covered under TTP OH11NM21.

**WORK SCOPE DEFINITION
(Control Account)**

1. PROJECT TITLE FEMP (NON-DEFENSE)		2. DATE 08/23/2001	Page 1
3. WBS ELEMENT CODE 1.2.A		4. WBS ELEMENT TITLE/NAME TECHNOLOGY DEVELOPMENT PROGRAM	
5. PERFORMING DIV/DEPARTMENT CODE 45	6. ORIGINATOR NAME/PHONE JOAN WHITE / 648-5026	7. WBS ELEMENT MANAGER PAUL PETTIT	
8. BUDGET AND REPORTING NUMBER EW4010000		9. BUDGET TITLE TREATMENT & REMEDIATION TECHNOLOGY SYSTEM	
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE? NEW PER CP FY01-0115-0000-01		11. ESTIMATED START / COMPLETION DATE 8/01 - 9/30/2004	
12. TASK IDENTIFICATION (CONTROL ACCOUNT) PECS	13. TASK DESCRIPTION (ONE LINE) INTEGRATED EXCAVATION CONTROL SYSTEM OH11SS31		
14. ELEMENT TASK DESCRIPTION			
<p><u>a. ELEMENTS OF COST:</u></p> <p>Labor Materials Subcontracts ODCs</p> <p><u>b. TECHNICAL CONTENT:</u></p> <p>This project has several different phases of activities that are described in the Technical Task Plan OH11SS31. Activities for FY2001 relate to design of the Excavator Monitoring System (EMS) and the implementation of the Integrated Excavation Control System (IECS) in a portion of the FEMP's former production area. Activities in FY2002 and FY2003 relate to additional deployments.</p> <p>A portion of the total FY2001 Subsurface Contaminants Focus Area (SCEA) ASTD funding has been directed to two partners (ANL & INEEL) to provide technical support. The technical content for Fernald's portion (\$250K) involves conducting acceptance tests of the EMS platform and implementation of the IECS, which includes all work scope related to acquisition, design, modifying and improving the technologies to be used in support of the IECS.</p> <p>For further detail, refer to Technical Task Plans OH11SS31.</p> <p><u>c. SCOPE OF WORK:</u></p> <p>Complete the work elements as defined in the "new" Technical Task Plan OH11SS31 which provides for acceptance testing of the EMS and successful implementation of an Integrated Excavation Control System in a portion of FEMP's former production area that contains soil contaminated above the waste acceptance</p>			
Project Manager <i>Joan White</i>	Control Account Manager <i>Paul J. Pettit</i>	Control Team Manager <i>Linda Weste</i>	

**WORK SCOPE DEFINITION
(Control Account)**

1. PROJECT TITLE FEMP (NON-DEFENSE)		2. DATE 08/23/2001	Page
3. WBS ELEMENT CODE 1.2.A	4. WBS ELEMENT TITLE/NAME TECHNOLOGY DEVELOPMENT PROGRAM		
5. PERFORMING DIV/DEPARTMENT CODE 45	6. ORIGINATOR NAME/PHONE JOAN WHITE / 648-5026	7. WBS ELEMENT MANAGER PAUL PETTIT	
8. BUDGET AND REPORTING NUMBER EW4010000	9. BUDGET TITLE TREATMENT & REMEDIATION TECHNOLOGY SYSTEM		
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE? NEW PER CP FY01-0115-0000-01		11. ESTIMATED START / COMPLETION DATE 8/01 - 9/30/2004	
12. TASK IDENTIFICATION (CONTROL ACCOUNT) PECS	13. TASK DESCRIPTION (ONE LINE) INTEGRATED EXCAVATION CONTROL SYSTEM OH11SS31		

14. ELEMENT TASK DESCRIPTION

criteria (WAC) of the On-Site Disposal Facility.

Review and comment on the design and fabrication of the Excavator Monitoring System (EMS),

Procure necessary equipment for implementation of the EMS.

Provide cost account management and project support as necessary to implement the IECS project. Provide any miscellaneous support as needed to ensure success of this ASTD project.

For further detail, refer to Technical Task Plan (TTP) OH11SS31.

d. WORK SPECIFICALLY EXCLUDED:

Work not identified in TTP OH11SS31.

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(Work Package)

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5. PERFORMING DIV/DEPARTMENT CODE 45	6. ORIGINATOR NAME/PHONE JOAN WHITE / 648-5026	7. WBS ELEMENT MANAGER PAUL PETTIT	
8. BUDGET AND REPORTING NUMBER EW4010000	9. BUDGET TITLE TREATMENT & REMEDIATION TECHNOLOGY SYSTEM		
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE? NEW PER CP FY01-0115-0000-01		11. ESTIMATED START / COMPLETION DATE 8/01 - 9/30/2004	
12. TASK IDENTIFICATION (WORK PACKAGE) PECS1	13. TASK DESCRIPTION (ONE LINE) INTEGRATED EXCAVATION CONTROL SYSTEM OH11SS31		

14. ELEMENT TASK DESCRIPTION

a. ELEMENTS OF COST:

Labor
Materials
Subcontracts
ODCs

b. TECHNICAL CONTENT:

Provide management and oversight of this Office of Science and Technology (OST) sponsored ASTD project at Fernald. This Technical content for Fernald's portion of work involves the implementation of the IECS, which includes all work scope performed at Fernald relating to the design, fabrication, modifying and improving the technologies to be used in support of the EMS and IECS. Cost management for this account will continue through FY2004.

Provide funds for the acquisition of all equipment and efforts to procure needed materials in support of the Integrated Excavation Control System. Activities can include any labor and travel necessary to properly research equipment and materials. The primary piece of equipment is an excavator for mounting the EMS and to conduct field work. Other work may include efforts to review/comment on procuring a Global Positioning System (GPS).

For further detail, refer to Technical Task Plan OH11SS31.

c. SCOPE OF WORK:

All activities that support the implementation of the IECS.

Any support services needed to implement above-WAC soil scanning or

Project Manager <i>Joan White</i>	Control Account Manager <i>Paul J. Pettit</i>	Control Team Manager <i>Linda W. Weste</i>
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FEMP (NON-DEFENSE)		08/23/2001	
3. WBS ELEMENT CODE	4. WBS ELEMENT TITLE/NAME		
1.2.A	TECHNOLOGY DEVELOPMENT PROGRAM		
5. PERFORMING DIV/DEPARTMENT CODE	6. ORIGINATOR NAME/PHONE	7. WBS ELEMENT MANAGER	
45	JOAN WHITE / 648-5026	PAUL PETTIT	
8. BUDGET AND REPORTING NUMBER	9. BUDGET TITLE		
EW4010000	TREATMENT & REMEDIATION TECHNOLOGY SYSTEM		
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE?		11. ESTIMATED START / COMPLETION DATE	
NEW PER CP FY01-0115-0000-01		8/01 - 9/30/2004	
12. TASK IDENTIFICATION (WORK PACKAGE)	13. TASK DESCRIPTION (ONE LINE)		
PECS1	INTEGRATED EXCAVATION CONTROL SYSTEM OH11SS31		
14. ELEMENT TASK DESCRIPTION			
<p>determination of soil excavation volumes.</p> <p>Review and comment on the EMS design and fabrication.</p> <p>Resolution of any technical issues associated with use of in-situ detectors in excavated areas, with waste minimization, the application of survey-grade GPS units and the software for the new technologies.</p> <p>Acceptance testing of the EMS and GPS and any supporting materials used in the testing. Travel and miscellaneous support necessary to accomplish the testing and determine the operational effectiveness.</p> <p>Prepare and issue a report that will summarize the first years efforts.</p> <p>Work with control team to set up charge numbers and financially track the project.</p> <p>Other tasks include submitting monthly update and budget/variance reports and providing typical CAM duties.</p> <p>The acquisition of all equipment and efforts to procure needed materials in support of the Integrated Excavation Control System. The primary piece of equipment is an excavator for mounting the EMS and to conduct field work. Other work may include efforts to review/comment on procuring a Global Positioning System (GPS).</p> <p>Acquisition of all equipment necessary to deploy IECS.</p> <p>Work with the Procurement Group to research (as needed) and purchase an excavator to mount the EMS.</p> <p>Perform support work as needed to write, review and/or comment on RFP packages or Sole Source determinatino of equipment purchases.</p> <p>Provide for rental of any support equipment or materials needed to accomplish testing of instruments or equipment.</p>			

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5. PERFORMING DIV/DEPARTMENT CODE 45	6. ORIGINATOR NAME/PHONE JOAN WHITE / 648-5026	7. WBS ELEMENT MANAGER PAUL PETTIT	
8. BUDGET AND REPORTING NUMBER EW4010000	9. BUDGET TITLE TREATMENT & REMEDIATION TECHNOLOGY SYSTEM		
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE? NEW PER CP FY01-0115-0000-01		11. ESTIMATED START / COMPLETION DATE 8/01 - 9/30/2004	
12. TASK IDENTIFICATION (WORK PACKAGE) PECS1	13. TASK DESCRIPTION (ONE LINE) INTEGRATED EXCAVATION CONTROL SYSTEM OH11SS31		

14. ELEMENT TASK DESCRIPTION

Any travel necessary to research equipment and materials or observe demonstrations of equipment or technologies for the IECS.

For further detail, refer to Technical Task Plan OH11SS31.

d. WORK SPECIFICALLY EXCLUDED:

Work not included in TTP OH11SS31.

**WORK SCOPE DEFINITION
(Control Account)**

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5. PERFORMING DIV/DEPARTMENT CODE 45	6. ORIGINATOR NAME/PHONE MARTY PROCHASKA / 648-6555	7. WBS ELEMENT MANAGER PAUL PETTIT	
8. BUDGET AND REPORTING NUMBER EW4010000		9. BUDGET TITLE TREATMENT & REMEDIATION TECHNOLOGY SYSTEM	
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE? NEW PER CP# FY01-0115-0000-01		11. ESTIMATED START / COMPLETION DATE 12/01/00 - 09/30/02	
12. TASK IDENTIFICATION (CONTROL ACCOUNT) PLTS		13. TASK DESCRIPTION (ONE LINE) FERNALD POST CLOSURE STEWARDSHIP TECHNOLOGY (PCSTP)	

a. ELEMENTS OF COST:

Labor
Materials
Subcontracts
ODC's

b. TECHNICAL CONTENT:

This element provides for technical oversight and coordination of all Office of Science and Technology (OST) sponsored Post Closure Stewardship demonstration activities at Fernald. These include, but are not limited to, the identification of and facilitation of opportunities to demonstrate and deploy new technology, transfer of OST developed or commercially available technology to Fernald, investigations of technology, demonstrations of technology, deployments of technology and dissemination of the information and lessons learned as a result of this project.

c. SCOPE OF WORK:

This work scope involves support of the OST Post Closure Stewardship Technology Project, as it relates to their mission of technology demonstration and deployment. The scope involves the conduct of investigations, demonstrations, and deployments of Post Closure Stewardship technologies at Fernald and includes project controls and scheduling. This involves identifying, selecting, coordinating, and implementing improved Post Closure Stewardship technology into the active Fernald site remediation, and facilities and areas such as OSDF and restored areas. This includes all OST required reporting, travel and information transfer.

Project Manager <i>Marty Prochaska</i> MARTY PROCHASKA	Control Account Manager <i>Paul Pettit</i>	Control Team Manager <i>Linda Wroste</i>
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(Control Account)**

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3. WBS ELEMENT CODE 1.2.A	4. WBS ELEMENT TITLE/NAME TECHNOLOGY DEVELOPMENT PROGRAM		
5. PERFORMING DIV/DEPARTMENT CODE 45	6. ORIGINATOR NAME/PHONE MARTY PROCHASKA / 648-6555	7. WBS ELEMENT MANAGER PAUL PETTIT	
8. BUDGET AND REPORTING NUMBER EW4010000	9. BUDGET TITLE TREATMENT & REMEDIATION TECHNOLOGY SYSTEM		
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE? NEW PER CP# FY01-0115-0000-01		11. ESTIMATED START / COMPLETION DATE 12/01/00 - 09/30/02	
12. TASK IDENTIFICATION (CONTROL ACCOUNT) PLTS	13. TASK DESCRIPTION (ONE LINE) FERNALD POST CLOSURE STEWARDSHIP TECHNOLOGY (PCSTP)		

14. ELEMENT TASK DESCRIPTION

d. WORK SPECIFICALLY EXCLUDED:

None.

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5. PERFORMING DIV/DEPARTMENT CODE 45	6. ORIGINATOR NAME/PHONE MARTY PROCHASKA / 648-6555	7. WBS ELEMENT MANAGER PAUL PETTIT	
8. BUDGET AND REPORTING NUMBER EW4010000	9. BUDGET TITLE TREATMENT & REMEDIATION TECHNOLOGY SYSTEM		
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE? NEW PER CP# FY01-0115-0000-01		11. ESTIMATED START / COMPLETION DATE 12/01/00 - 09/30/02	
12. TASK IDENTIFICATION (WORK PACKAGE) PLTSA	13. TASK DESCRIPTION (ONE LINE) POST CLOSURE STEWARDSHIP TECHNOLOGY PROJECT TECHNICAL UNIVER		

14. ELEMENT TASK DESCRIPTION

a. ELEMENTS OF COST:

Labor
Materials
Subcontracts
ODC's

b. TECHNICAL CONTENT:

This work scope shall provide for technical university support only to the Office of Technology (OST) sponsored Post Closure Stewardship Technology Demonstration project at Fernald. This support may include, but is not limited to, the following activities:

- Performing technology searches, evaluations, demonstrations and deployments with respect to Post Closure Stewardship Technology (PCS) needs
- Searching for and capturing data and lessons learned on PCS technologies, technology needs, and activities within the DOE complex and outside the complex
- Assist in disseminating information and lessons learned on PCS technologies, needs, processes, demonstrations, deployments, etc.
- Providing technical expertise and consulting to the Fernald PCS technology project
- Assisting Fernald with organizing, conducting, and hosting a meeting on PCS and technology
- Additional tasks as defined by the Fernald Department of Energy (DOE) Technical Program Officer.

c. SCOPE OF WORK:

Project Manager <i>[Signature]</i> FOR MARTY PROCHASKA	Control Account Manager <i>[Signature]</i>	Control Team Manager <i>[Signature]</i>
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(Work Package)

1. PROJECT TITLE FEMP (NON-DEFENSE)		2. DATE 12/01/2000	Page 2
3. WBS ELEMENT CODE 1.2.A	4. WBS ELEMENT TITLE/NAME TECHNOLOGY DEVELOPMENT PROGRAM		
5. PERFORMING DIV/DEPARTMENT CODE 45	6. ORIGINATOR NAME/PHONE MARTY PROCHASKA / 648-6555	7. WBS ELEMENT MANAGER PAUL PETTIT	
8. BUDGET AND REPORTING NUMBER EW4010000	9. BUDGET TITLE TREATMENT & REMEDIATION TECHNOLOGY SYSTEM		
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE? NEW PER CP# FY01-0115-0000-01		11. ESTIMATED START / COMPLETION DATE 12/01/00 - 09/30/02	
12. TASK IDENTIFICATION (WORK PACKAGE) PLTSA	13. TASK DESCRIPTION (ONE LINE) POST CLOSURE STEWARDSHIP TECHNOLOGY PROJECT TECHNICAL UP		

14. ELEMENT TASK DESCRIPTION

The scope of this work package includes the following activities:

- Conducting PCS technology needs assessments, technology screenings, technology evaluations, technology demonstration plans, technology demonstrations, technology deployments, technology integrations.
- Conducting/assisting in the searching/collection/publishing and dissemination of information on PCS technology needs, challenges, demonstrations, lessons learned, successes, failures, etc. both within and outside of the DOE complex.
- Assisting/conducting technology development activities.
- Coordinating with other DOE labs and departments and with other government and private entities on PCS technology issues.
- Conduct/assist with technology transfer efforts.
- Assist with organizing, conducting, holding a meeting on PCS and Technology for Fernald, Ohio Field office, and the DOE complex.
- Provide for travel necessary to execute above scope of work.
- Provide for additional support, consulting, expertise etc., to support this project as determined by the DOE Fernald Technical Program Officer.

d. WORK SPECIFICALLY EXCLUDED:

All work activities not included in TTP # OH10SS20.

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3. WBS ELEMENT CODE 1.2.A		4. WBS ELEMENT TITLE/NAME TECHNOLOGY DEVELOPMENT PROGRAM	
5. PERFORMING DIV/DEPARTMENT CODE 45	6. ORIGINATOR NAME/PHONE MARTY PROCHASKA / 648-6555	7. WBS ELEMENT MANAGER PAUL PETTIT	
8. BUDGET AND REPORTING NUMBER EW4010000		9. BUDGET TITLE TREATMENT & REMEDIATION TECHNOLOGY SYSTEM	
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE? NEW PER_CP# FY01-0115-0000-01			11. ESTIMATED START / COMPLETION DATE 12/01/00 - 09/30/02
12. TASK IDENTIFICATION (WORK PACKAGE) PLTS1		13. TASK DESCRIPTION (ONE LINE) FERNALD POST CLOSURE STEWARDSHIP TECHNOLOGY PROJECT (PCS	

14. ELEMENT TASK DESCRIPTION

a. ELEMENTS OF COST:

Labor
Materials
Subcontracts
ODC's

b. TECHNICAL CONTENT:

This element provides for technical oversight, project management and coordination of all Office of Science and technology (OST) sponsored Post Closure Stewardship demonstration/deployment activities at Fernald. These include, but are not limited to, the identification and facilitation of opportunities to demonstrate and deploy OST-developed or commercially available technology to Fernald, investigations of technology, demonstrations of technology, deployments of technology and dissemination of the information and lessons learned as a result of this project.

c. SCOPE OF WORK:

This work scope involves support of the OST Post Closure Stewardship Technology Project as it relates to their mission of technology demonstration and deployment. The scope involves the conduct of investigations, demonstrations and deployments of Post Closure Stewardship technologies at Fernald and includes project controls and scheduling. This involves identifying, selecting, coordinating, and implementing improved Post Closure Stewardship technology into the active Fernald site remediation. This includes all OST required reporting, travel and information transfer. This also includes support for unanticipated Post Closure Stewardship tasks that are requested by the DOE.

Project Manager <i>M. Prochaska</i> MARTY PROCHASKA	Control Account Manager <i>Paul J. Pettit</i>	Control Team Manager <i>Linda Wreese</i>
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3. WBS ELEMENT CODE 1.2.A	4. WBS ELEMENT TITLE/NAME TECHNOLOGY DEVELOPMENT PROGRAM		
5. PERFORMING DIV/DEPARTMENT CODE 45	6. ORIGINATOR NAME/PHONE MARTY PROCHASKA / 648-6555	7. WBS ELEMENT MANAGER PAUL PETTIT	
8. BUDGET AND REPORTING NUMBER EW4010000	9. BUDGET TITLE TREATMENT & REMEDIATION TECHNOLOGY SYSTEM		
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE? NEW PER CP# FY01-0115-0000-01		11. ESTIMATED START / COMPLETION DATE 12/01/00 - 09/30/02	
12. TASK IDENTIFICATION (WORK PACKAGE) PLTS1	13. TASK DESCRIPTION (ONE LINE) FERNALD POST CLOSURE STEWARDSHIP TECHNOLOGY PROJECT (I		
14. ELEMENT TASK DESCRIPTION			

d. WORK SPECIFICALLY EXCLUDED:

All work activities not included in TTP # OH10SS20.

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(Control Account)**

1. PROJECT TITLE FEMP (NON-DEFENSE)		2. DATE 12/01/2000	Page 1
3. WBS ELEMENT CODE 1.2.A	4. WBS ELEMENT TITLE/NAME TECHNOLOGY DEVELOPMENT PROGRAM		
5. PERFORMING DIV/DEPARTMENT CODE 45	6. ORIGINATOR NAME/PHONE TIM MILLER / 648-6369	7. WBS ELEMENT MANAGER PAUL PETTIT	
8. BUDGET AND REPORTING NUMBER EW4010000	9. BUDGET TITLE TREATMENT & REMEDIATION TECHNOLOGY SYSTEM		
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE? NEW PER CP # FY01-0115-0000-01		11. ESTIMATED START / COMPLETION DATE 12/01/00 - 12/30/01	
12. TASK IDENTIFICATION (CONTROL ACCOUNT) PMMB	13. TASK DESCRIPTION (ONE LINE) MICROCHIP MEMORY BUTTON (MMB) PROJECT		
14. ELEMENT TASK DESCRIPTION			
<p><u>a. ELEMENTS OF COST:</u></p> <p>Labor Materials Subcontracts ODCs</p> <p><u>b. TECHNICAL CONTENT:</u></p> <p>This project provides for technical oversight, project execution and coordination of deploying Microchip Memory Buttons onto drums and other waste containers at Fernald, and other DOE sites. Other possible applications include data management and Long Term Stewardship Projects. This package shall provide for the necessary procurement, project execution, report writing, tracking and data collection required by the Technical Task Plan (TTP) OH00MW21.</p> <p><u>c. SCOPE OF WORK:</u></p> <p>This work scope involves support of the Office of Science and Technology (OST) as it relates to the mission of technology deployment. The scope involves the deployment of the Microchip Memory Button technologies at Fernald and other DOE facilities. Two different charge numbers will be employed to complete the work scope.</p> <p><u>d. WORK SPECIFICALLY EXCLUDED:</u></p> <p>This work scope does not include capital expenditures.</p>			
Project Manager <i>T. J. Miller</i> TIM MILLER	Control Account Manager <i>Paul H. Pettit</i>	Control Team Manager <i>Linda W. Toste</i>	

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3. WBS ELEMENT CODE 1.2.A	4. WBS ELEMENT TITLE/NAME TECHNOLOGY DEVELOPMENT PROGRAM		
5. PERFORMING DIV/DEPARTMENT CODE 45	6. ORIGINATOR NAME/PHONE TIM MILLER / 648-6369	7. WBS ELEMENT MANAGER PAUL PETTIT	
8. BUDGET AND REPORTING NUMBER EW4010000	9. BUDGET TITLE TREATMENT & REMEDIATION TECHNOLOGY SYSTEM		
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE? NEW PER CP# FY01-0115-0000-01		11. ESTIMATED START / COMPLETION DATE 12/01/00 - 12/30/01	
12. TASK IDENTIFICATION (WORK PACKAGE) PMMB1	13. TASK DESCRIPTION (ONE LINE) MICROCHIP MEMORY BUTTON (MMB) ADMINISTRATION		

14. ELEMENT TASK DESCRIPTION

a. ELEMENTS OF COST:

Labor
Materials
ODC's (Travel)

b. TECHNICAL CONTENT:

This project provides for technical oversight and coordination of deploying Microchip Memory Buttons onto drums and other waste containers at Fernald, and other DOE sites. Other possible applications include data management and Long Term Stewardship Projects. This package shall provide for the necessary report writing, tracking and data collection required by the Technical Task Plan (TTP) OH00MW21.

c. SCOPE OF WORK:

The scope of work includes, but is not limited to:

- Generation of all project documentation;
- Generation of plans and work scopes;
- Project control support,
- Generation of monthly reports, variance reports (if needed), and summary report;
- Procurement of required project materials;
- Travel to attend meetings and conferences, and
- All other activities related to this scope as directed by the FEMP TPO.

d. WORK SPECIFICALLY EXCLUDED:

Project Manager <i>L. L. Gilvin FOR</i> TIM MILLER	Control Account Manager <i>Paul J. Pettit</i>	Control Team Manager <i>Linda W. Foote</i>
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1. PROJECT TITLE FEMP (NON-DEFENSE)		2. DATE 12/01/2000	Page 2
3. WBS ELEMENT CODE 1.2.A	4. WBS ELEMENT TITLE/NAME TECHNOLOGY DEVELOPMENT PROGRAM		
5. PERFORMING DIV/DEPARTMENT CODE 45	6. ORIGINATOR NAME/PHONE TIM MILLER / 648-6369	7. WBS ELEMENT MANAGER PAUL PETTIT	
8. BUDGET AND REPORTING NUMBER EW4010000	9. BUDGET TITLE TREATMENT & REMEDIATION TECHNOLOGY SYSTEM		
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE? NEW PER CP# FY01-0115-0000-01		11. ESTIMATED START / COMPLETION DATE 12/01/00 - 12/30/01	
12. TASK IDENTIFICATION (WORK PACKAGE) PMMB1	13. TASK DESCRIPTION (ONE LINE) MICROCHIP MEMORY BUTTON (MMB) ADMINISTRATION		
14. ELEMENT TASK DESCRIPTION			

This work scope does not include capital expenditures or any work activities not included in TTP # OH00MW21.

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3. WBS ELEMENT CODE 1.2.A	4. WBS ELEMENT TITLE/NAME TECHNOLOGY DEVELOPMENT PROGRAM
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5. PERFORMING DIV/DEPARTMENT CODE 45	6. ORIGINATOR NAME/PHONE TIM MILLER / 648-6369	7. WBS ELEMENT MANAGER PAUL PETTIT
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8. BUDGET AND REPORTING NUMBER EW4010000	9. BUDGET TITLE TREATMENT & REMEDIATION TECHNOLOGY SYSTEM
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10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE? NEW PER CP# FY01-0115-0000-01	11. ESTIMATED START / COMPLETION DATE 12/01/00 - 09/30/01
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12. TASK IDENTIFICATION (WORK PACKAGE) PMMB2	13. TASK DESCRIPTION (ONE LINE) MICROCHIP MEMORY BUTTONS TECHNOLOGY DEPLOYMENT
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14. ELEMENT TASK DESCRIPTION

a. ELEMENTS OF COST:

Labor
Materials
Subcontractors
ODC's

b. TECHNICAL CONTENT:

This project provides for technical oversight and coordination of deploying Microchip Memory Buttons onto drums and other waste containers at Fernald. Other possible applications include data management and Long Term Stewardship Projects. This package shall provide for the necessary report writing, tracking and data collection required by the Technical Task Plan (TTP) OH00MW21.

c. SCOPE OF WORK:

The scope of work includes, but is not limited to:

- Write procedures;
- Training of personnel to install and upload/download buttons;
- Procurement of technology;
- Subcontractor support;
- Procurement of software and other software/hardware related services to assist deployment at the FEMP and other sites;
- Travel to assist in deployments, and
- All other activities related to this scope as directed by the FEMP TPO.

d. WORK SPECIFICALLY EXCLUDED:

Project Manager <i>T. J. Miller FOR</i> TIM MILLER	Control Account Manager <i>Paul J. Pettit</i>	Control Team Manager <i>Linda Wroste</i>
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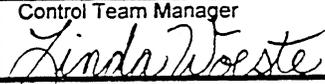
WORK SCOPE DEFINITION
(Work Package)

1. PROJECT TITLE FEMP (NON-DEFENSE)		2. DATE 12/01/2000	Page 2
3. WBS ELEMENT CODE 1.2.A	4. WBS ELEMENT TITLE/NAME TECHNOLOGY DEVELOPMENT PROGRAM		
5. PERFORMING DIV/DEPARTMENT CODE 45	6. ORIGINATOR NAME/PHONE TIM MILLER / 648-6369	7. WBS ELEMENT MANAGER PAUL PETTIT	
8. BUDGET AND REPORTING NUMBER EW4010000	9. BUDGET TITLE TREATMENT & REMEDIATION TECHNOLOGY SYSTEM		
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE? NEW PER CP# FY01-0115-0000-01		11. ESTIMATED START / COMPLETION DATE 12/01/00 - 09/30/01	
12. TASK IDENTIFICATION (WORK PACKAGE) PMMB2	13. TASK DESCRIPTION (ONE LINE) MICROCHIP MEMORY BUTTONS TECHNOLOGY DEPLOYMENT		

14. ELEMENT TASK DESCRIPTION

This work scope does not include capital expenditures or all work activities not included in TTP # OH00MW21.

**WORK SCOPE DEFINITION
(Control Account)**

1. PROJECT TITLE FEMP (NON-DEFENSE)		2. DATE 12/01/2000	Page 1
3. WBS ELEMENT CODE 1.2.A		4. WBS ELEMENT TITLE/NAME TECHNOLOGY DEVELOPMENT PROGRAM	
5. PERFORMING DIV/DEPARTMENT CODE 45		6. ORIGINATOR NAME/PHONE LARRY STEBBINS / 648-6218	7. WBS ELEMENT MANAGER PAUL PETTIT
8. BUDGET AND REPORTING NUMBER EW4010000		9. BUDGET TITLE TREATMENT & REMEDIATION TECHNOLOGY SYSTEM	
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE? NEW PER CP# FY01-0115-0000-01			11. ESTIMATED START / COMPLETION DATE 12/01/00 - 09/30/02
12. TASK IDENTIFICATION (CONTROL ACCOUNT) PMND		13. TASK DESCRIPTION (ONE LINE) DOE-OH FUNDED TECHNOLOGY WORK	
14. ELEMENT TASK DESCRIPTION			
<p><u>a. ELEMENTS OF COST:</u></p> <p>Labor Material ODC's Subcontract</p> <p><u>b. TECHNICAL CONTENT:</u></p> <p>This element provides for technical oversight, programmatic oversight, execution, coordination and reporting for Office of Science and Technology-funded scopes of work for which funds are provided through the DOE-OH and other DOE Field Offices, or OST services. These scopes of work include any work deemed beneficial to DOE-OH or to Fernald by the DOE OH-TPO, or by the DOE FEMP TPO, or Fluor Fernald Inc. Such scopes include all technology and technical investigations, including, but not limited to, investigations and support work conducted by Fluor Fernald technical staff, subcontractors, and university partners; developments; demonstrations; and deployments of technology that will benefit FEMP or another OH site, provided the DOE-OH funds the work.</p> <p><u>c. SCOPE OF WORK:</u></p> <p>The scope of this work is to provide technology projects to DOE-OH and to Fernald through the Office of Science and Technology funding resources for projects or investigations that will be materially executed by Fernald's Technology Programs organization. Primarily, for projects small in nature or short duration. The oversight scope for the project will be at Fernald and includes those site costs associated with performing work related to those support services by Fernald necessary to execute the technology investigations, demonstrations and deployments or those costs associated with arranging</p>			
Project Manager 		Control Account Manager 	Control Team Manager 

**WORK SCOPE DEFINITION
(Control Account)**

1. PROJECT TITLE FEMP (NON-DEFENSE)		2. DATE 12/01/2000	Page 2
3. WBS ELEMENT CODE 1.2.A	4. WBS ELEMENT TITLE/NAME TECHNOLOGY DEVELOPMENT PROGRAM		
5. PERFORMING DIV/DEPARTMENT CODE 45	6. ORIGINATOR NAME/PHONE LARRY STEBBINS / 648-6218	7. WBS ELEMENT MANAGER PAUL PETTIT	
8. BUDGET AND REPORTING NUMBER EW4010000	9. BUDGET TITLE TREATMENT & REMEDIATION TECHNOLOGY SYSTEM		
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE? NEW PER CP# FY01-0115-0000-01		11. ESTIMATED START / COMPLETION DATE 12/01/00 - 09/30/02	
12. TASK IDENTIFICATION (CONTROL ACCOUNT) PMND	13. TASK DESCRIPTION (ONE LINE) DOE-OH FUNDED TECHNOLOGY WORK		

14. ELEMENT TASK DESCRIPTION

technical investigations for other OH sites. These include project execution and support costs, project controls costs, and all other project administrative and support costs for the approved scopes of work.

d. WORK SPECIFICALLY EXCLUDED:

Work funded through the resources of the approved FEMP Office of Science and Technology funding.

WORK SCOPE DEFINITION
(Work Package)

1. PROJECT TITLE FEMP (NON-DEFENSE)		2. DATE 12/01/2000	Page 1
3. WBS ELEMENT CODE 1.2.A	4. WBS ELEMENT TITLE/NAME TECHNOLOGY DEVELOPMENT PROGRAM		
5. PERFORMING DIV/DEPARTMENT CODE 45	6. ORIGINATOR NAME/PHONE LARRY STEBBINS / 648-6218	7. WBS ELEMENT MANAGER PAUL PETTIT	
8. BUDGET AND REPORTING NUMBER EW4010000	9. BUDGET TITLE TREATMENT & REMEDIATION TECHNOLOGY SYSTEM		
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE? NEW PER CP# FY01-0115-0000-01		11. ESTIMATED START / COMPLETION DATE 12/01/00 - 01/31/02	
12. TASK IDENTIFICATION (WORK PACKAGE) PMND2	13. TASK DESCRIPTION (ONE LINE) INTRUSIVE AND NONINTRUSIVE CHARACTERIZATION TTP OH08SD12		
14. ELEMENT TASK DESCRIPTION			

a. ELEMENTS OF COST:

Material
Subcontract

b. TECHNICAL CONTENT:

The DOE-OH TPO has requested support to procure the services of Florida International University to execute scope for the Mound Environmental Management Project; intrusive and non-intrusive characterization through walls and floors ASTD project. Funding is provided through the DOE-OH TPO on TTP OH08SD12.

c. SCOPE OF WORK:

FIU-HCET will bring gamma spectroscopy instrumentation to Mound for use in this project as needed and will assist BWXTO in the overall management of the characterization data collection and analysis.

FIU-HCET will support the documentation of results for reports to DOE sites and for DOE conferences.

d. WORK SPECIFICALLY EXCLUDED:

None.

Project Manager



Control Account Manager



Control Team Manager



WORK SCOPE DEFINITION
(Work Package)

1. PROJECT TITLE FEMP (NON-DEFENSE)		2. DATE 12/01/2000	Page 1
3. WBS ELEMENT CODE 1.2.A	4. WBS ELEMENT TITLE/NAME TECHNOLOGY DEVELOPMENT PROGRAM		
5. PERFORMING DIV/DEPARTMENT CODE 45	6. ORIGINATOR NAME/PHONE LARRY STEBBINS / 648-6218	7. WBS ELEMENT MANAGER PAUL PETTIT	
8. BUDGET AND REPORTING NUMBER EW4010000	9. BUDGET TITLE TREATMENT & REMEDIATION TECHNOLOGY SYSTEM		
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE? NEW PER CP# FY01-0115-0000-01		11. ESTIMATED START / COMPLETION DATE 12/01/00 - 09/30/01	
12. TASK IDENTIFICATION (WORK PACKAGE) PMND3	13. TASK DESCRIPTION (ONE LINE) INTRUSIVE AND NONINTRUSIVE CHARACTERIZATION TTP OH00DD31		

14. ELEMENT TASK DESCRIPTION

a. ELEMENTS OF COST:

Subcontract

b. TECHNICAL CONTENT:

The DOE-OH TPO has requested support to procure the services of Florida International University to execute scope for the Mound Environmental Management Project intrusive and non-intrusive characterization through walls and floors ASTD project. Funding is provided through the DOE-OH TPO on TTP OH00DD31.

c. SCOPE OF WORK:

FIU-HCET will provide support to DOE-Ohio and BWXTO on the development of a proposal for the ASTD referenced above.

FIU-HCET will provide weekly support to the project through ongoing phone conversations, emails and conference calls throughout the entire project.

FIU-HCET will provide lead technical expertise in the development of a statement of work for the use of gamma spectrometry for assaying the contamination under the Cave area in the building.

FIU-HCET will provide lead technical expertise in the development of a statement of work for the deployment of non-intrusive and minimally intrusive technology for under the Cave area in the building.

FIU-HCET will travel to meetings when necessary at DOE Mound site with technology vendors, program managers of BWXTO and its subcontractors for successful execution of characterization and analysis of data for this project

Project Manager <i>[Signature]</i>	Control Account Manager <i>[Signature]</i>	Control Team Manager <i>[Signature]</i>
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WORK SCOPE DEFINITION
(Work Package)

1. PROJECT TITLE FEMP (NON-DEFENSE)		2. DATE 12/01/2000	Page 2
3. WBS ELEMENT CODE 1.2.A	4. WBS ELEMENT TITLE/NAME TECHNOLOGY DEVELOPMENT PROGRAM		
5. PERFORMING DIV/DEPARTMENT CODE 45	6. ORIGINATOR NAME/PHONE LARRY STEBBINS / 648-6218	7. WBS ELEMENT MANAGER PAUL PETTIT	
8. BUDGET AND REPORTING NUMBER EW4010000	9. BUDGET TITLE TREATMENT & REMEDIATION TECHNOLOGY SYSTEM		
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE? NEW PER CP# FY01-0115-0000-01		11. ESTIMATED START / COMPLETION DATE 12/01/00 - 09/30/01	
12. TASK IDENTIFICATION (WORK PACKAGE) PMND3	13. TASK DESCRIPTION (ONE LINE) INTRUSIVE AND NONINTRUSIVE CHARACTERIZATION TTP OH00DD31		

14. ELEMENT TASK DESCRIPTION

FIU-HCET will support the documentation of results for reports to DOE sites and for DOE conferences.

d. WORK SPECIFICALLY EXCLUDED:

All work activities not included in TTP # OH00DD31.

WORK SCOPE DEFINITION
(Work Package)

1. PROJECT TITLE FEMP (NON-DEFENSE)	2. DATE 12/01/2000	Page 1
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3. WBS ELEMENT CODE 1.2.A	4. WBS ELEMENT TITLE/NAME TECHNOLOGY DEVELOPMENT PROGRAM
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5. PERFORMING DIV/DEPARTMENT CODE 45	6. ORIGINATOR NAME/PHONE LARRY STEBBINS / 648-6218	7. WBS ELEMENT MANAGER PAUL PETTIT
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8. BUDGET AND REPORTING NUMBER EW4010000	9. BUDGET TITLE TREATMENT & REMEDIATION TECHNOLOGY SYSTEM
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10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE? NEW PER CP# FY01-0115-0000-01	11. ESTIMATED START / COMPLETION DATE 10/01/01 - 09/30/02
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12. TASK IDENTIFICATION (WORK PACKAGE) PMND4	13. TASK DESCRIPTION (ONE LINE) TPM SUPPORT
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14. ELEMENT TASK DESCRIPTION

a. ELEMENTS OF COST:

Labor
ODCs

b. TECHNICAL CONTENT:

This element provides for technical oversight and coordination of Office of Science and Technology (OST) sponsored activities at Fernald, involving specific support for technology activities associated with the Ohio Field Office Site Technology Coordination Group (STCG) and support of the Ohio STCG (OH06PS01).

c. SCOPE OF WORK:

Provide support to the Ohio Field Office Technical Program Officer (OHO-TPO) as needed to promote interaction of STCGs and transfer of technology to and among DOE-OH sites (OH06PS01).

This work scope involves support of Office of Science and Technology (OST) programs at Fernald and in the field and serving as the single point of contact for OST management of tasks and for interfacing with the FDF operations groups and with regional institutions. Limited funding from OST sources may preclude full completion of each function described. Specific tasks are outlined below:

Provide the single point of contact for each field office contractor preparation, review, and approval of Technical Task plans, proposals, monthly reported (specifically, input to the Progress Tracking System), and other administrative documents submitted by principle investigators.

This includes:

Project Manager <i>[Signature]</i>	Control Account Manager <i>[Signature]</i>	Control Team Manager <i>[Signature]</i>
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WORK SCOPE DEFINITION
(Work Package)

1. PROJECT TITLE FEMP (NON-DEFENSE)	2. DATE 12/01/2000	Page 2
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3. WBS ELEMENT CODE 1.2.A	4. WBS ELEMENT TITLE/NAME TECHNOLOGY DEVELOPMENT PROGRAM
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5. PERFORMING DIV/DEPARTMENT CODE 45	6. ORIGINATOR NAME/PHONE LARRY STEBBINS / 648-6218	7. WBS ELEMENT MANAGER PAUL PETTIT
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8. BUDGET AND REPORTING NUMBER EW4010000	9. BUDGET TITLE TREATMENT & REMEDIATION TECHNOLOGY SYSTEM
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10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE? NEW PER CP# FY01-0115-0000-01	11. ESTIMATED START / COMPLETION DATE 10/01/01 - 09/30/02
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12. TASK IDENTIFICATION (WORK PACKAGE) PMND4	13. TASK DESCRIPTION (ONE LINE) TPM SUPPORT
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14. ELEMENT TASK DESCRIPTION

- Preparation of TTPs
- Coordination of meetings
- Attendance at DOE-OH meetings
- Travel to meetings
- Preparation of data for the DOE-OH TPO related DOE-OH TPO initiatives.

d. WORK SPECIFICALLY EXCLUDED:

Work not covered under TTP # OH06PS01.

**WORK SCOPE DEFINITION
(Control Account)**

1. PROJECT TITLE FEMP (NON-DEFENSE)		2. DATE 12/01/2000	Page 1
3. WBS ELEMENT CODE 1.2.A		4. WBS ELEMENT TITLE/NAME TECHNOLOGY DEVELOPMENT PROGRAM	
5. PERFORMING DIV/DEPARTMENT CODE 45		6. ORIGINATOR NAME/PHONE MARTY PROCHASKA / 648-6555.	7. WBS ELEMENT MANAGER PAUL PETTIT
8. BUDGET AND REPORTING NUMBER EW4010000		9. BUDGET TITLE TREATMENT & REMEDIATION TECHNOLOGY SYSTEM	
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE? NEW PER CP# FY01-0115-0000-01			11. ESTIMATED START / COMPLETION DATE 12/01/00 - 02/28/02
12. TASK IDENTIFICATION (CONTROL ACCOUNT) PPCS		13. TASK DESCRIPTION (ONE LINE) FERNALD ASTD TECHNOLOGY DEPLOYMENT PROJECT	
14. ELEMENT TASK DESCRIPTION			
<p><u>a. ELEMENTS OF COST:</u></p> <p>Labor Materials ODC's Subcontracts</p> <p><u>b. TECHNICAL CONTENT:</u></p> <p>Through the Department of Energy's Office of Science and Technology's Accelerated Site Technology Deployment (ASTD) Project to Deploy the Personal Ice Cooling System (PICS) and Oxygasoline torch to Fernald and the DOE Complex, this control account shall provide for the following activities as described in the approved ASTD Deployment plan;</p> <ul style="list-style-type: none"> - Prepare, procure and disseminate information in the PICS and other technologies; - Procure starter sets of technologies as directed by the Office of Science and Technology; - Travel to deploy technologies, conduct training sessions, and attend meetings; - Set up a system to provide the PICS at Fernald including revisiting the procedure for working in warm temperatures; - Management, reporting, data collection, oversight, and final project financial closeout. <p><u>c. SCOPE OF WORK:</u></p> <p>The scope of this account includes the following activities;</p>			

Project Manager
[Signature] FOR
MARTY PROCHASKA

Control Account Manager
[Signature]

Control Team Manager
[Signature]

WORK SCOPE DEFINITION
(Control Account)

1. PROJECT TITLE FEMP (NON-DEFENSE)		2. DATE 12/01/2000	Page 2
3. WBS ELEMENT CODE 1.2.A	4. WBS ELEMENT TITLE/NAME TECHNOLOGY DEVELOPMENT PROGRAM		
5. PERFORMING DIV/DEPARTMENT CODE 45	6. ORIGINATOR NAME/PHONE MARTY PROCHASKA / 648-6555	7. WBS ELEMENT MANAGER PAUL PETTIT	
8. BUDGET AND REPORTING NUMBER EW4010000	9. BUDGET TITLE TREATMENT & REMEDIATION TECHNOLOGY SYSTEM		
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE? NEW PER CP# FY01-0115-0000-01		11. ESTIMATED START / COMPLETION DATE 12/01/00 - 02/28/02	
12. TASK IDENTIFICATION (CONTROL ACCOUNT) PPCS	13. TASK DESCRIPTION (ONE LINE) FERNALD ASTD TECHNOLOGY DEPLOYMENT PROJECT		

14. ELEMENT TASK DESCRIPTION

- Management, oversight, and data collection of the Fernald ASTD project;
- Deploy at least 70 PICS systems across the DOE Complex;
- Produce, procure, and disseminate information on the PICS and other successful technologies;
- Procurement of technologies (i.e., PICS, oxy-gasoline torches) as starter sets for additional deployment (i.e., other DOE sites, training institutions, labor unions, ect) as directed by the Office of Science and Technology;
- Provide for the travel necessary to execute the deployments and conduct the training and information exchange meeting on technologies including the PICS and oxy-gasoline torches and other technologies identified by the Office of Science and Technology;
- Provide for any subcontractor labor if necessary;
- Provide for any miscellaneous materials and equipment necessary to execute the ASTD project;
- Provide for the revision of Fernald's procedure for working in warm temperatures in order to take advantage of the PICS ability to combat heat-stress;
- Deploy other technologies, and perform other duties as directed by the FEMP Technical Program Officer.

d. WORK SPECIFICALLY EXCLUDED:

None.

WORK SCOPE DEFINITION
(Work Package)

1. PROJECT TITLE FEMP (NON-DEFENSE)		2. DATE 12/01/2000	Page 1
3. WBS ELEMENT CODE 1.2.A	4. WBS ELEMENT TITLE/NAME TECHNOLOGY DEVELOPMENT PROGRAM		
5. PERFORMING DIV/DEPARTMENT CODE 45	6. ORIGINATOR NAME/PHONE MARTY PROCHASKA / 648-6555	7. WBS ELEMENT MANAGER PAUL PETTIT	
8. BUDGET AND REPORTING NUMBER EW4010000	9. BUDGET TITLE TREATMENT & REMEDIATION TECHNOLOGY SYSTEM		
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE? NEW PER CP# FY01-0115-0000-01		11. ESTIMATED START / COMPLETION DATE 12/01/00 - 02/28/02	
12. TASK IDENTIFICATION (WORK PACKAGE) PPCS1	13. TASK DESCRIPTION (ONE LINE) FERNALD ASTD TECHNOLOGY DEPLOYMENT PROJECT		
14. ELEMENT TASK DESCRIPTION			
<p><u>a. ELEMENTS OF COST:</u></p> <p>Labor Materials ODC's Subcontracts</p> <p><u>b. TECHNICAL CONTENT:</u></p> <p>Through the Department of Energy's Office of Science and Technology's Accelerated Site Technology Deployment (ASTD) Project to Deploy the Personal Ice Cooling System (PICS) and oxygasoline torch to Fernald and the DOE Complex, this control account shall provide for the following activities as described in the approved ASTD Deployment plan:</p> <ul style="list-style-type: none"> - Prepare, procure, and disseminate information in the PICS and other technologies; - Procure starter sites of technologies as directed by the Office of Science and Technology; - Travel to deploy technologies, conduct training sessions, and attend meetings; - Set up a system to provide the PICS at Fernald including revising the procedure for working in warm temperatures; - Management, reporting, data collection, oversight, and final project financial closeout. <p><u>c. SCOPE OF WORK:</u></p> <p>The scope of this account includes the following activities;</p>			
Project Manager <i>[Signature]</i> FOR MARTY PROCHASKA	Control Account Manager <i>[Signature]</i>	Control Team Manager <i>[Signature]</i>	

WORK SCOPE DEFINITION
(Work Package)

1. PROJECT TITLE FEMP (NON-DEFENSE)		2. DATE 12/01/2000	Page 2
3. WBS ELEMENT CODE 1.2.A		4. WBS ELEMENT TITLE/NAME TECHNOLOGY DEVELOPMENT PROGRAM	
5. PERFORMING DIV/DEPARTMENT CODE 45		6. ORIGINATOR NAME/PHONE MARTY PROCHASKA / 648-6555	7. WBS ELEMENT MANAGER PAUL PETTIT
8. BUDGET AND REPORTING NUMBER EW4010000		9. BUDGET TITLE TREATMENT & REMEDIATION TECHNOLOGY SYSTEM	
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE? NEW PER CP# FY01-0115-0000-01			11. ESTIMATED START / COMPLETION DATE 12/01/00 - 02/28/02

12. TASK IDENTIFICATION (WORK PACKAGE) PPCS1	13. TASK DESCRIPTION (ONE LINE) FERNALD ASTD TECHNOLOGY DEPLOYMENT PROJECT
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14. ELEMENT TASK DESCRIPTION

- Management, oversight, and data collection of the Fernald PICS ASTD project;
- Deploy at least 70 PICS systems across the DOE Complex;
- Produce, procure, and disseminate information on the PICS and other successful technologies;
- Procurement of technologies (i.e., PICS, oxy-gasoline torches) as starter sets for additional deployment (i.e., other DOE sites, training institutions, labor unions, etc) as directed by the Office of Science and Technology;
- Provide for the travel necessary to execute the deployments and conduct the training and information exchange meeting on technologies including the PICS and oxy-gasoline torches and other technologies identified by the Office of Science and Technology;
- Provide for any subcontractor labor if necessary;
- Provide for any miscellaneous materials and equipment necessary to execute the ASTD project;
- Provide for the revision of Fernald's procedure for working in warm temperatures in order to take advantage of the PICS ability to combat heat-stress;
- Deploy other technologies, and perform other duties as directed by the FEMP Technical Program Officer;
- Provide a final project report;
- Perform final project financial closeout.

d. WORK SPECIFICALLY EXCLUDED:

All work activities not included in TTP # OH19DD62.

**WORK SCOPE DEFINITION
(Control Account)**

1. PROJECT TITLE FEMP (NON-DEFENSE)	2. DATE 08/01/2001	Page 1
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3. WBS ELEMENT CODE 1.2.A	4. WBS ELEMENT TITLE/NAME TECHNOLOGY DEVELOPMENT PROGRAM
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5. PERFORMING DIV/DEPARTMENT CODE 45	6. ORIGINATOR NAME/PHONE MICHELE MILLER / 648-5167	7. WBS ELEMENT MANAGER PAUL PETTIT
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8. BUDGET AND REPORTING NUMBER EW4010000	9. BUDGET TITLE TREATMENT & REMEDIATION TECHNOLOGY SYSTEM
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10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE? NEW PER CP# FY01-0115-0000-01	11. ESTIMATED START / COMPLETION DATE 08/2001- 12/30/2001
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12. TASK IDENTIFICATION (CONTROL ACCOUNT) PSWE	13. TASK DESCRIPTION (ONE LINE) SOIL & WASTE ENGINEERING STUDY
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14. ELEMENT TASK DESCRIPTION

a. ELEMENTS OF COST:

- Labor
- Materials
- Subcontracts
- ODCs

b. TECHNICAL CONTENT:

Work performed under this cost account will include project management, a literature search, treatability study development, and some treatability study execution. The objective of the project is to select, test, and compare innovative treatment technologies that can effectively treat organically contaminated soil (8400 yd³) as well as a waste inventory of organic soil/sludge/debris (839 yd³). Technologies that may be included in the treatability test are vacuum-assisted thermal desorption, in-situ chemical oxidation, ex-situ chemical oxidation, and other non-incineration thermal treatment technologies. The work scope to be performed expands the treatment alternative studies to include additional technologies for treating material which is contaminated with organic/inorganic constituents. Treatment and disposition alternatives for soil and waste inventory that are contaminated with organic/inorganic constituents.

c. SCOPE OF WORK:

Perform an Engineering Study (inclusive of bench scale treatability studies) for soils and waste contaminated with organic/inorganic constituents.

Tasks include

Project Manager <i>[Signature]</i> for M. Miller	Control Account Manager <i>[Signature]</i> For Paul Pettit	Control Team Manager <i>[Signature]</i>
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WORK SCOPE DEFINITION
(Control Account)

1. PROJECT TITLE FEMP (NON-DEFENSE)		2. DATE 08/01/2001	Page 2
3. WBS ELEMENT CODE 1.2.A	4. WBS ELEMENT TITLE/NAME TECHNOLOGY DEVELOPMENT PROGRAM		
5. PERFORMING DIV/DEPARTMENT CODE 45	6. ORIGINATOR NAME/PHONE MICHELE MILLER / 648-5167	7. WBS ELEMENT MANAGER PAUL PETTIT	
8. BUDGET AND REPORTING NUMBER EW4010000	9. BUDGET TITLE TREATMENT & REMEDIATION TECHNOLOGY SYSTEM		
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE? NEW PER CP# FY01-0115-0000-01		11. ESTIMATED START / COMPLETION DATE 08/2001- 12/30/2001	
12. TASK IDENTIFICATION (CONTROL ACCOUNT) PSWE	13. TASK DESCRIPTION (ONE LINE) SOIL & WASTE ENGINEERING STUDY		

14. ELEMENT TASK DESCRIPTION

- Developing, finalizing, and authorizing a technical task plan for the project.
- Completing a CP for the project
- Subcontracting the statement of work development
- Generating brief progress reports for the project
- Supporting the preparation of the RFP for the treatment contract (if warranted)
- Developing necessary documentation to re-direct funds in FY01 and obtain additional funding for FY02 and FY03 (if warranted).

d. WORK SPECIFICALLY EXCLUDED:

None.

WORK SCOPE DEFINITION
(Work Package)

1. PROJECT TITLE FEMP (NON-DEFENSE)		2. DATE 07/12/2001	Page 1
3. WBS ELEMENT CODE 1.2.A	4. WBS ELEMENT TITLE/NAME TECHNOLOGY DEVELOPMENT PROGRAM		
5. PERFORMING DIV/DEPARTMENT CODE 45	6. ORIGINATOR NAME/PHONE MICHELE MILLER / 648-5167	7. WBS ELEMENT MANAGER PAUL PETTIT	
8. BUDGET AND REPORTING NUMBER EW4010000	9. BUDGET TITLE TREATMENT & REMEDIATION TECHNOLOGY SYSTEM		
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE? NEW PER CP# FY01-0115-0000-01		11. ESTIMATED START / COMPLETION DATE 08/2001 - 12/30/2001	
12. TASK IDENTIFICATION (WORK PACKAGE) PSWE1	13. TASK DESCRIPTION (ONE LINE) VACUUM THERMAL DESORPTION DEMONSTRATION		

14. ELEMENT TASK DESCRIPTION

a. ELEMENTS OF COST:

Labor
Materials
Subcontracts
ODCs

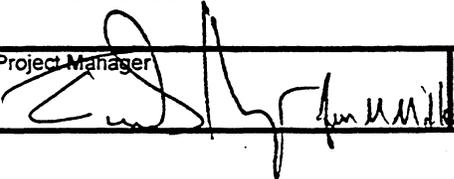
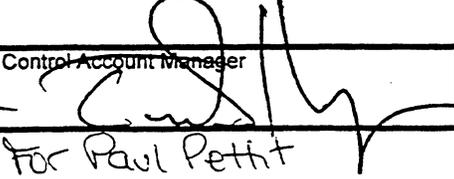
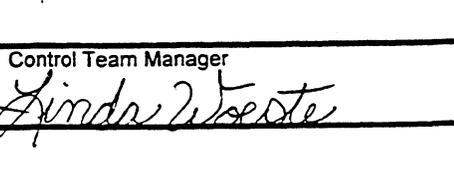
b. TECHNICAL CONTENT:

Work performed under this cost account will include project management, a literature search, treatability study development, and some treatability study execution. The objective of the project is to select, test, and compare innovative treatment technologies that can effectively treat organically contaminated soil (8400 yd3) as well as a waste inventory of organic soil/sludge/debris (839 yd3). Technologies that may be included in the treatability test are vacuum-assisted thermal desorption, in-situ chemical oxidation, ex-situ chemical oxidation, and other non-incineration thermal treatment technologies. The work scope to be performed expands the treatment alternative studies to include additional technologies for treating material which is contaminated with organic/inorganic constituents. The activities herein supplies the VTD bench scale study contained in the amended TTP OH00MW21 and will be continued under charge number FVTD1.

c. SCOPE OF WORK:

Perform an Engineering Study for organically contaminated soil by a vacuum-assisted thermal desorption technology.

Tasks include

Project Manager 	Control Account Manager  For Paul Pettit	Control Team Manager 
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**WORK SCOPE DEFINITION
(Work Package)**

1. PROJECT TITLE FEMP (NON-DEFENSE)		2. DATE 07/12/2001	Page :
3. WBS ELEMENT CODE 1.2.A	4. WBS ELEMENT TITLE/NAME TECHNOLOGY DEVELOPMENT PROGRAM		
5. PERFORMING DIV/DEPARTMENT CODE 45	6. ORIGINATOR NAME/PHONE MICHELE MILLER / 648-5167	7. WBS ELEMENT MANAGER PAUL PETTIT	
8. BUDGET AND REPORTING NUMBER EW4010000	9. BUDGET TITLE TREATMENT & REMEDIATION TECHNOLOGY SYSTEM		
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE? NEW PER CP# FY01-0115-0000-01		11. ESTIMATED START / COMPLETION DATE 08/2001 - 12/30/2001	
12. TASK IDENTIFICATION (WORK PACKAGE) PSWE1	13. TASK DESCRIPTION (ONE LINE) VACUUM THERMAL DESORPTION DEMONSTRATION		

14. ELEMENT TASK DESCRIPTION

- Developing, finalizing, and authorizing a technical task plan for the project;
- Develop, review and finalize a treatability study plan for bench scale demonstration of VTD;
- Bench scale testing and report submittal;

- Supporting the preparation of the RFP for the treatment contract (if warranted);

- Developing necessary documentation to re-direct funds in FY01 and obtain additional funding for FY02 and FY03 (if warranted).

d. WORK SPECIFICALLY EXCLUDED:

All work activities not covered under TTP # OH00MW21

**WORK SCOPE DEFINITION
(Control Account)**

1. PROJECT TITLE FEMP (NON-DEFENSE)		2. DATE 12/01/2000	Page 1
3. WBS ELEMENT CODE 1.2.A	4. WBS ELEMENT TITLE/NAME TECHNOLOGY DEVELOPMENT PROGRAM		
5. PERFORMING DIV/DEPARTMENT CODE 45	6. ORIGINATOR NAME/PHONE TIM MILLER / 648-6369	7. WBS ELEMENT MANAGER PAUL PETTIT	
8. BUDGET AND REPORTING NUMBER EW4010000	9. BUDGET TITLE TREATMENT & REMEDIATION TECHNOLOGY SYSTEM		
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE? NEW PER CP# FY01-0115-0000-01		11. ESTIMATED START / COMPLETION DATE 12/01/00 - 12/31/01	
12. TASK IDENTIFICATION (CONTROL ACCOUNT) PUDP	13. TASK DESCRIPTION (ONE LINE) UNIVERSAL DEMOLITION PROCESSOR (UDP)		

14. ELEMENT TASK DESCRIPTION

a. ELEMENTS OF COST:

Labor
Material
Subcontracts
ODC's

b. TECHNICAL CONTENT:

This control account shall provide for the management, oversight and coordination of procuring and deploying the ASTD Project for the Universal Demolition Processor (UDP). This includes preparing, obtain authorization and issuing an RFP. This task allows for project control support such as establishing charge accounts and tracking project funding and reporting as required by the ASTD project. Material, labor and travel are approved as listed and described in the work package's scope of work for this account.

c. SCOPE OF WORK:

The scope of work involves any support services associated with the deployment of the UDP. All materials needed to successfully execute this project including any subcontractor support, labor, training and travel for the support services will be procured through this control account. Other approved work to be performed under this account is reporting, data collection and tracking, and documentation as deemed appropriate. This may include fact sheets, video taping and photography as well as information exchanges as necessary. This project will require subcontractor labor as well as Fluor Fernald support labor.

Project Manager <i>T. J. Miller</i> TIM MILLER	Control Account Manager <i>Paul J. Pettit</i>	Control Team Manager <i>Linda Woeste</i>
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WORK SCOPE DEFINITION
(Control Account)

1. PROJECT TITLE FEMP (NON-DEFENSE)		2. DATE 12/01/2000	Page 2
3. WBS ELEMENT CODE 1.2.A	4. WBS ELEMENT TITLE/NAME TECHNOLOGY DEVELOPMENT PROGRAM		
5. PERFORMING DIV/DEPARTMENT CODE 45	6. ORIGINATOR NAME/PHONE TIM MILLER / 648-6369	7. WBS ELEMENT MANAGER PAUL PETTIT	
8. BUDGET AND REPORTING NUMBER EW4010000	9. BUDGET TITLE TREATMENT & REMEDIATION TECHNOLOGY SYSTEM		
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE? NEW PER CP# FY01-0115-0000-01		11. ESTIMATED START / COMPLETION DATE 12/01/00 - 12/31/01	
12. TASK IDENTIFICATION (CONTROL ACCOUNT) PUDP	13. TASK DESCRIPTION (ONE LINE) UNIVERSAL DEMOLITION PROCESSOR (UDP)		
14. ELEMENT TASK DESCRIPTION			

d. WORK SPECIFICALLY EXCLUDED:

None.

WORK SCOPE DEFINITION
(Work Package)

1. PROJECT TITLE FEMP (NON-DEFENSE)		2. DATE 12/01/2000	Page 1
3. WBS ELEMENT CODE 1.2.A		4. WBS ELEMENT TITLE/NAME TECHNOLOGY DEVELOPMENT PROGRAM	
5. PERFORMING DIV/DEPARTMENT CODE 45		6. ORIGINATOR NAME/PHONE TIM MILLER / 648-6369	7. WBS ELEMENT MANAGER PAUL PETTIT
8. BUDGET AND REPORTING NUMBER EW4010000		9. BUDGET TITLE TREATMENT & REMEDIATION TECHNOLOGY SYSTEM	
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE? NEW PER CP# FY01-0115-0000-01			11. ESTIMATED START / COMPLETION DATE 12/01/00 - 12/31/01
12. TASK IDENTIFICATION (WORK PACKAGE) PUDP1		13. TASK DESCRIPTION (ONE LINE) UNIVERSAL DEMOLITION PROCESSOR (UDP)	

14. ELEMENT TASK DESCRIPTION

a. ELEMENTS OF COST:

Labor
Subcontract
ODC (Travel)

b. TECHNICAL CONTENT:

This work package will provide for a transfer of commercially available technology to Fernald to accomplish cost savings for the removal/recycling of concrete pads and structures. This consists of Fluor Fernald management and oversight of the ASTD project for the Universal Demolition Processor to the Fernald Environmental Management Project (FEMP). This includes meeting with project managers to identify all potential locations for deployment and other team meetings necessary to plan for a successful deployment. This package shall provide for the necessary report writing, tracking and data collection required by the ASTD project.

c. SCOPE OF WORK:

This work package provides for the following activities:

- Technology Programs management, oversight, report preparation, data collection and analysis associated with the ASTD project at the FEMP.
- Transfer of funding and establishment of charge numbers.
- Project Controls support of the ASTD Project.
- Meeting with project personnel to successfully plan/schedule the development of the UDP.
- Subcontracting assistance to execute the project.
- Reporting, tracking, travel and information exchange meetings.

Project Manager <i>T. J. Miller</i> TIM MILLER	Control Account Manager <i>Paul J. Pettit</i>	Control Team Manager <i>Linda Weste</i>
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WORK SCOPE DEFINITION
(Work Package)

1. PROJECT TITLE FEMP (NON-DEFENSE)		2. DATE 12/01/2000	Page
3. WBS ELEMENT CODE 1.2.A	4. WBS ELEMENT TITLE/NAME TECHNOLOGY DEVELOPMENT PROGRAM		
5. PERFORMING DIV/DEPARTMENT CODE 45	6. ORIGINATOR NAME/PHONE TIM MILLER / 648-6369	7. WBS ELEMENT MANAGER PAUL PETTIT	
8. BUDGET AND REPORTING NUMBER EW4010000	9. BUDGET TITLE TREATMENT & REMEDIATION TECHNOLOGY SYSTEM		
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE? NEW PER CP# FY01-0115-0000-01		11. ESTIMATED START / COMPLETION DATE 12/01/00 - 12/31/01	
12. TASK IDENTIFICATION (WORK PACKAGE) PUDP1	13. TASK DESCRIPTION (ONE LINE) UNIVERSAL DEMOLITION PROCESSOR (UDP)		
14. ELEMENT TASK DESCRIPTION			

d. WORK SPECIFICALLY EXCLUDED:

All work activities not included in TTP # OH10DD21.

WORK SCOPE DEFINITION
(Work Package)

1. PROJECT TITLE FEMP (NON-DEFENSE)		2. DATE 12/01/2000	Page 1
3. WBS ELEMENT CODE 1.2.A	4. WBS ELEMENT TITLE/NAME TECHNOLOGY DEVELOPMENT PROGRAM		
5. PERFORMING DIV/DEPARTMENT CODE 45	6. ORIGINATOR NAME/PHONE TIM MILLER / 648-6369	7. WBS ELEMENT MANAGER PAUL PETTIT	
8. BUDGET AND REPORTING NUMBER EW4010000	9. BUDGET TITLE TREATMENT & REMEDIATION TECHNOLOGY SYSTEM		
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE? NEW PER CP# FY01-0115-0000-01		11. ESTIMATED START / COMPLETION DATE 12/01/00 - 12/30/01	
12. TASK IDENTIFICATION (WORK PACKAGE) PUDP2	13. TASK DESCRIPTION (ONE LINE) UNIVERSAL DEMOLITION PROCESSOR PROCUREMENT & TRAINING		

14. ELEMENT TASK DESCRIPTION

a. ELEMENTS OF COST:

Labor
Material
ODC's (Travel)
Subcontract

b. TECHNICAL CONTENT:

This work package provides for the procurement process, purchasing, oversight and coordination of purchasing and deploying the Universal Demolition Processor (UDP) to the Fernald site. Any material needed to successfully execute this project will be procured via this work package including any subcontractor support, training and travel for the support services.

c. SCOPE OF WORK:

The scope of this work package includes, but is not limited to the following:

- Procurement of the UDP equipment and any necessary training for operators.
- Any miscellaneous materials and support equipment necessary to execute the ASTD project including modification to existing equipment.
- Any necessary travel for procurement and training.
- Miscellaneous support, expertise, travel, etc., to execute the project.

d. WORK SPECIFICALLY EXCLUDED:

All work activities not included in TTP # OH10DD21.

Project Manager <i>T. J. Silkin</i> FOR TIM MILLER	Control Account Manager <i>Paul J. Pettit</i>	Control Team Manager <i>Linda Wrester</i>
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WORK SCOPE DEFINITION
(Work Package)

1. PROJECT TITLE FEMP (NON-DEFENSE)	2. DATE 12/01/2000	Page 1
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3. WBS ELEMENT CODE 1.2.A	4. WBS ELEMENT TITLE/NAME TECHNOLOGY DEVELOPMENT PROGRAM
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5. PERFORMING DIV/DEPARTMENT CODE 45	6. ORIGINATOR NAME/PHONE TIM MILLER / 648-6369	7. WBS ELEMENT MANAGER PAUL PETTIT
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8. BUDGET AND REPORTING NUMBER EW4010000	9. BUDGET TITLE TREATMENT & REMEDIATION TECHNOLOGY SYSTEM
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10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE? NEW PER CP# FY01-0115-0000-01	11. ESTIMATED START / COMPLETION DATE 12/01/00 - 12/31/01
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12. TASK IDENTIFICATION (WORK PACKAGE) PUDP3	13. TASK DESCRIPTION (ONE LINE) UNIVERSAL DEMOLITION PROCESSOR SUBCONTRACT
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14. ELEMENT TASK DESCRIPTION

a. ELEMENTS OF COST:

Labor
Subcontract
Materials
ODC's (Travel)

b. TECHNICAL CONTENT:

This work package shall provide for the subcontractor labor required to deploy this ASTD technology. Other materials and labor such as photographic documentation and/or videos taping deemed appropriate shall also be covered under this work package.

c. SCOPE OF WORK:

Provide for subcontract labor to deploy and operate the UDP and perform demolition work for this ASTD project.

Provide for the necessary site support (H&S, Rad support, waste management, construction etc.) for field surveys, equipment modifications and maintenance

Provide for miscellaneous support, expertise, travel, etc., to execute the project.

Video taping and photography support as necessary to document and report the ASTD project.

Project Manager <i>A. J. Sullivan</i> FOR TIM MILLER	Control Account Manager <i>Paul J. Pettit</i>	Control Team Manager <i>Linda J. Trester</i>
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WORK SCOPE DEFINITION
(Work Package)

1. PROJECT TITLE FEMP (NON-DEFENSE)		2. DATE 12/01/2000	Page 2
3. WBS ELEMENT CODE 1.2.A	4. WBS ELEMENT TITLE/NAME TECHNOLOGY DEVELOPMENT PROGRAM		
5. PERFORMING DIV/DEPARTMENT CODE 45	6. ORIGINATOR NAME/PHONE TIM MILLER / 648-6369	7. WBS ELEMENT MANAGER PAUL PETTIT	
8. BUDGET AND REPORTING NUMBER EW4010000	9. BUDGET TITLE TREATMENT & REMEDIATION TECHNOLOGY SYSTEM		
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE? NEW PER CP# FY01-0115-0000-01		11. ESTIMATED START / COMPLETION DATE 12/01/00 - 12/31/01	
12. TASK IDENTIFICATION (WORK PACKAGE) PUDP3	13. TASK DESCRIPTION (ONE LINE) UNIVERSAL DEMOLITION PROCESSOR SUBCONTRACT		

14. ELEMENT TASK DESCRIPTION

d. WORK SPECIFICALLY EXCLUDED:

All work activities not included in TTP # OH10DD21.

SECTION 1

1.0 NARRATIVE

PROJECT TITLE: NON-DEFENSE CLOSURE	2. DATE: 05/10/01	3. PBS#: N/A
4. WBS ELEMENT CODE: 1.2.A	5. WBS ELEMENT TITLE: TECHNOLOGY PROGRAMS	
6. CAM NAME/ PHONE: TERRY HAGEN/ 5261	7. CAM SIGNATURE:	
8. ORIGINAL/ CHANGE SCOPE/ PER CP#:	9. CONTROL ACCOUNT: SEE BELOW	

**PART 1: PADD/PAMM/PAQF/PAST/PASW/PATP/PLTS/PMMB/PMND/PPCS/PUDP -
 TECHNOLOGY PROGRAMS**

Section 1: Technology Development

1.0 NARRATIVE

1.1 OVERVIEW

This document addresses the Fluor Fernald Technology Programs (TP) scope of work for Non-Defense (formerly called "Non-MSA") activities and tasks funded by the DOE Office of Science and Technology (OST, EM-50) and others. The mission of TP is to conduct technology demonstrations and deployments and related innovative technology support tasks as directed by the Contracting Officer, in coordination with the DOE Technology Programs Officer, when it is determined to be advantageous to the Department. The TP scope of work will include conducting technology support tasks and tasks for demonstrations and deployments of new technology initiatives designed to directly enhance the efficiency, lower the cost or improve the safety of remediation and site closure activities and/or of post-closure and stewardship of the Fernald site. The scope of work and the plan for conducting it, including schedule, budget and each milestone, are described in a specific Technical Task Plan or another authorizing document jointly executed by Contracting Officials of the funding organization and Fernald.

In general, the nature of the work is to perform demonstrations and/or deployments of higher risk, costly, longer-lead technologies using special support by the DOE OST and others to achieve improvements in site closure.

1.2 ASSUMPTIONS/ EXCLUSIONS

1.2.1 Assumptions

- The DOE-OST continues to be a viable source of funding and resources for direct support of technology demonstrations and deployments at Fernald.
- The DOE management systems, programs, practices, attitudes and requirements relating to, but not limited to, OST, STCG, technology Focus Areas and local and national technology programs remain substantially the same as they were at the start of Fiscal Year 2001.

- Minimum interruption results from changes in the Administration in the Executive Branch of the government.
- DOE Contract DE-AC24-01OH20115 with Fluor Fernald, Inc. remains in effect with the same condition as in January 2001.
- Fluor Fernald senior management clearly defines and communicates priorities for the focus of the TP scope of work.
- Fluor Fernald senior management provides full support as required by TP to achieve the scope of work.
- The Fernald Baseline covers the scope and budget for Projects to interact with TP in the way necessary for success of the TP mission.
- Minimum interruption in the current TP position occurs from the implementation of DOE Contract DE-AC24-01OH20115 and any changes in approach to work, work sequence and schedule that it will bring about at Fernald.
- Funding of technology initiatives by DOE OST occurs on a timely schedule. DOE responds and acts in a timely manner to proposals for support submitted by Fernald. DOE adheres to published schedules for funding initiatives and projects for ASTD, LSDDP, demonstrations and deployments. Technical Task Plans are funded promptly, including both new funding and carry-over funding as fiscal years change.
- The DOE-OH releases funding designated for Fernald in a timely manner without delays by the Ohio Field Office.
- The TP scope of work includes the Primary Responsibilities described in the Fluor Fernald Functional Responsibilities Matrix and the scope described in DOE Contract DE-AC24-01OH20115 Attachment 1 C-6.
- Resources, including manpower, subcontract support, Fluor Fernald support organization support and support from Fluor Fernald senior management are available in a timely manner and sufficient degree to TP.
- Fluor Fernald will not do "work for others" as part of the scope of work under DOE Contract DE-AC24-01OH20115.
- DOE-OH and DOE-FEMP will not to transfer funds out of the Fernald Baseline, nor will they reallocate funds among Fernald projects without agreement of TP management and approval of the Fluor Fernald management.

- DOE-FEMP establishes and maintains a DOE-OST Technology Program Officer staff member that is qualified, enabled, disposed, empowered and funded as required for support of TP, and exercises strong advocacy for TP and Project technology initiatives.
- The Fluor Fernald TP continues to provide the defined scope of work through FY06.
- Over the life of the Contract, TP will initiate and manage the performance of demonstrations and/or deployments of technologies targeted as high-risk, high demonstration cost, longer-lead technology innovations (supported from Non-Defense sources at an average level of approximately \$700,000, or greater). These activities will be supported as allowed by available staff.
- Fluor Fernald Project (“operations”) qualified technical and management personnel will cooperate with TP in the strategizing, development of detailed scope, detail planning and development of proposals and plans for technology initiatives, and Fluor Fernald Projects will expeditiously perform the scope of work related to field execution of successful and funded initiatives for demonstration and deployment of innovative technologies, processes and approaches.
- The estimated time for large project proposal and capture activity, from start of proposal to approval of Change Proposals to the site Baseline is 6–12 months, with 9 months used as the basis of estimate for budget preparation purposes.
- The execution time for large technology projects including demonstration and deployment initiatives is 18–24 months.
- Some tasks will be delayed for technical reasons or for programmatic purposes, and result in extension of the task schedule and carryover of funds from one fiscal year to another.

1.2.2 Exclusions

- This scope is coordinated with, but excludes the scope of work defined in Defense Programs Baseline described in WBS Element 1.1.N.D.

1.2.3 Government-Furnished Equipment/Services

- Government furnished materials and services are a condition of the TTP under which the scope of work is performed.

1.3 DRIVERS

1.3.1 Priority Fernald Projects

Fluor Fernald Management has directed Technology Programs (TP) to focus services on the following priority projects.

- Facilities D&D Project FY 01 - FY 08
TP project field activity anticipated to end in 07
Last large initiative submitted in 05
- Silos Project FY 01 - FY 08
TP project field activity anticipated to end in 06
Last large initiative submitted in 04
- OSDF and Soil Characterization and Excavation FY 01 - FY 10
TP project field activity anticipated to end in 08
Last large initiative submitted in 06
- Nuclear Materials, uranium waste Disposition FY 01 - FY 05
TP project field activity anticipated to end in 04
Last large initiative submitted in 03
- Mixed Waste Project and Waste Management FY 01 - FY 06
TP project field activity anticipated to end in 05
Last large initiative submitted in 03

1.3.2 DOE Drivers

From time to time when it is determined to be advantageous to the Department, drivers are expected to develop from DOE to conduct technology demonstrations and deployments as directed by the DOE Contracting Officer, in coordination with the DOE-FEMP and/or the DOE-OH Technology Program Officer.

1.4 PROJECT PHYSICAL DESCRIPTION

Project tasks will be conducted primarily on the Fernald site in locations appropriate to the Project being serviced by the new technology initiative effort and the type and characteristics of the technology. Depending on the terms and conditions of the TTP,

some support subtasks and work scope may be conducted at other locations, as directed by DOE and Fluor Fernald management.

1.5 SCOPE OF WORK

1.5.1 Task #1 – PATP - TPP No. OH17PS01 TPO Support

1.5.1)1 Plan/Scope

The scope of work includes, but is not limited to: managing, administering, and communicating the OST efforts on technology development and technology deployments. Working in concert with the site line programs and with HQ, these site resources provide the management, oversight, direction and review of the fieldwork in support of EM science and technology (S&T) initiatives. To facilitate HQ oversight and coordination for the scope of the tasks outlined in this TTP, the HQ OST Site Representative for this Site is the HQ Lead for this TTP.

Goals

Key elements in site support of the development of innovative technologies at DOE clean-up sites include:

- Assurance that major science & technology related obstacles and needs of the sites are captured and communicated to the Focus Area Groups;
- Resources to effectively manage and direct work funded by the Office of Science and Technology and performed by the site contractor on a day-to-day basis;
- Emphasis on expediting the clean-up goals of DOE's environmental programs through submissions of proposals and the execution of user driven projects in which the deployments of innovative technological solutions, which when implemented by site operations will, enhance worker safety, improve operational efficiencies, and accelerate schedule performance; and
- Encouraging and facilitating open and ongoing communication with Focus Areas, EMSP Program Managers, other DOE Operations Offices and programs, site stakeholders, tribal governments, regulators and technology developers on-site and across the DOE complex in order to catalyze the use of innovative technologies.

The plan is to perform the specific tasks as described in the TTP with the schedule as follows:

Start of task: 12/00

Completion of task: 9/08

1.5.1)2 Quantification

The quantification is summarized in the table that appears at the end of this section.

1.5.2 Task #2 – PAMM – TTP No. OH10DD31, Improved Monitoring and Measurement System

1.5.2)1 Plan/Scope

The scope of work includes, but is not limited to: generation of all project documentation, generation of plans and work scopes, project control support, generation of monthly reports, variance reports (if needed), and summary report. Procurement of required project materials, travel to attend meetings and conferences, and all other activities related to this scope as directed by the FEMP TPO.

The scope involves the deployment of three separate measuring and monitoring technologies at Fernald. This will involve the deployment of the following measurement-related technologies:

- Remote Prismless Total Station Surveying Instrument
- Real Time Physiological Monitoring System
- Integrated Wireless Radon Monitoring System

The plan is to perform the specific tasks as described in the TTP with the schedule as follows:

Task Start: 12/00

Task Completion: 12/01

1.5.2)2 Quantification

The quantification is summarized in the table that appears at the end of this section

1.5.3 Task #3 – PMMB – TTP No. OH00MW21, Microchip Memory Button (Large Scale)

1.5.3)1 Plan/Scope

The scope of work includes, but is not limited to: generation of all project documentation, a final report, and all other activities related to this scope as directed by the FEMP TPO.

The main focus of the scope is the closeout of the deployment efforts for the Microchip Memory Button technologies at Fernald and other DOE facilities.

The plan is to perform the specific tasks as described in the TTP with the schedule as follows:

Task Start: 12/00

Task Completion: 12/01

1.5.3)2 Quantification

The quantification is summarized in the table that appears at the end of this section

1.5.4 Task #4 – PADD – TTP No. OH16DD21, Large Scale Technology Demonstration and Deployment

1.5.4)1 Plan/Scope

The scope of work includes, but is not limited to: generation of all project documentation, generation of plans and work scopes, project control support, generation of monthly reports, variance reports (if needed), and summary report. Procurement of required project materials, travel to attend meetings and conferences, and all other activities related to this scope as directed by the FEMP TPO. The main focus will be on project financial closeout of the Large Scale Technology Demonstration (LSTD) Project and Fernald's participation in the Mound Tritium Large Scale Demonstration & Deployment Project Integrated Contractor Team (ICT) meetings.

The plan is to perform the specific tasks as described in the TTP with the schedule as follows:

Task Start: 12/00

Task Completion: 9/01

1.5.4)2 Quantification

The quantification is summarized in the table that appears at the end of this section

1.5.5 Task #5 – PAQF – TTP No. OH18SS40, Aquifer Flushing and Support

1.5.5)1 Plan/Scope

The scope of work includes, but is not limited to: answering or resolving technical questions or problems related to the re-injection of treated groundwater. Generation of all project documentation, generation of plans and work scopes, project control support, generation of monthly reports, variance reports (if needed), and summary report. Procurement of required project materials, travel to attend meetings and conferences, and all other activities related to this scope as directed by the FEMP TPO. This project has provided the technical oversight and coordination of an Office of Science and Technology

(OST) sponsored activity at Fernald for the development of a new technology application of in situ leaching techniques, for use in environmental remediation at Fernald.

The current work scope involves activities that will bring this project to an end and then redirect the remaining funds to another OST project.

This scope of work includes contacting the subcontractor developing the ITSR, and distributing the report to involved parties. Issuing close out letter for this project and closing all open charge numbers associated with it. Other tasks include submitting monthly updates and budget/variance reports and providing typical CAM duties until official termination of project. Provide project update (if requested) to DOE Focus Area.

The plan is to perform the specific tasks as described in the TTP with the schedule as follows:

Task Start: 12/00

Task Completion: 9/01

1.5.5)2 Quantification

The quantification is summarized in the table that appears at the end of this section

1.5.6 Task #6 – PAST - TTP No. OH19DD61, Mobile Work Platform/ TTP No. OH11DD31, Integrated Excavation Control System (CA To Be Determined)

New TTP No. OH11DD31, Integrated Excavation Control System, is being routed for approval and a control account (CA) will be created upon CP approval.

1.5.6)1 Plan/Scope

The scope of work includes, but is not limited to:

- Generation of all project documentation, generation of plans and work scopes, project control support, generation of monthly reports, variance reports (if needed), and summary report. Procurement of required project materials, travel to attend meetings and conferences, and all other activities related to this scope as directed by the FEMP TPO.
- Specific work elements are defined in Technical Task Plan OH19DD61 which includes closing out the MWP portion of the project and providing successful implementation and subsequent redeployment of an Integrated Excavation Control System.

The plan is to perform the specific tasks as described in the TTP with the schedule as follows:

Task Start: 12/00

Task Completion: 12/03

1.5.6)2 Quantification

The quantification is summarized in the table that appears at the end of this section

1.5.7 Task #7 – TTP No. OH11SS31, Integrated Excavation Control System (CA To Be Determined)

TTP No. OH11SS31, Integrated Excavation Control System does not yet have a control account (CA) established and a CP is underway to create the CA.

1.5.7)1 Plan/Scope

The scope of work includes, but is not limited to: generation of all project documentation, generation of plans and work scopes, project control support, generation of monthly reports, variance reports (if needed), and summary report. Procurement of required project materials, travel to attend meetings and conferences, and all other activities related to this scope as directed by the FEMP TPO. Provide management and oversight of this Office of Science and Technology (OST) sponsored activity at Fernald to implement the Integrated Excavation Control System (IECS) Project. Technology Program cost management for this account will continue through FY2003.

FY01 work includes reviewing design and fabrication documents, testing of equipment and components, attending periodic project meeting, and resolving technical issues related to the EMS.

Track and report monthly activities and spending for Fernald as well as Partners as required by this ASTD project.

The plan is to perform the specific tasks as described in the TTP with the schedule as follows:

Task Start: 7/01

Task Completion: 12/03

1.5.7)2 Quantification

The quantification is summarized in the table that appears at the end of this section

1.5.8 Task #8 – PASW – TTP No. OH08SD10, Mobile Radiation Tracking System

1.5.8)1 Plan/Scope

The scope of work includes, but is not limited to: generation of all project documentation, generation of plans and work scopes, project control support, generation of monthly reports, variance reports (if needed), and summary report. Procurement of required project materials, travel to attend meetings and conferences, and all other activities related to this scope as directed by the FEMP TPO. The main focus will be on project financial closeout.

The plan is to perform the specific tasks as described in the TTP with the schedule as follows:

Task Start: 12/00

Task Completion: 9/01

1.5.8)2 Quantification

The quantification is summarized in the table that appears at the end of this section

1.5.9 Task #9 – PLTS – TTP No. OH10SS20, Fernald Post Closure Stewardship Technology Project

1.5.9)1 Plan/Scope

The scope of work includes, but is not limited to: generation of all project documentation, generation of plans and work scopes, project control support, generation of monthly reports, variance reports (if needed), and summary report. Procurement of required project materials, travel to attend meetings and conferences, and all other activities related to this scope as directed by the FEMP TPO.

Specifically, the Fernald Long Term Stewardship Technology Project (LTSTP) effort is designed to identify, demonstrate, develop, and deploy technologies that will provide DOE, regulators, and stakeholders with the assurance that the site and its facilities are secure and performing as designed. For example, this effort will seek to deploy technologies and integrated systems that have the capability to provide "real time" monitoring to remote locations autonomously. The remote, real time, autonomous function of the technologies has at least three key benefits: 1) It allows us to know if the systems are functioning as designed and if they are not, it will notify us the minute there may be a problem; 2) The system gives the public, stakeholders, and regulators up to date access to information on the performance and conditions of the site and its facilities and; 3) It will allow us to provide a superior level of monitoring and assurance with minimal personnel. Specific areas at the site where such technologies will likely be deployed include the On-Site Disposal Facility (OSDF) and associated facilities such as leachate collection and transmission system etc, ground water monitoring wells, and other areas to be

determined. Other Long Term Stewardship (LTS) needs at Fernald in which a technological solution can be applied and thus likely addressed through this project include but are not limited to the following: remote, automated monitoring of flora and fauna; automated security/surveillance monitoring, technologies/methods to repair minor breaches in the OSDF, monitoring of the runoff quantity and quality from the site, a meteorological station, alternative leachate treatment technology, technology/system for long term data storage and integrity, a technology to extend the life of monitoring wells and others.

The technical scope for this project can be divided into three categories:

1. Defining needs and searching/screening applicable technologies;
2. Selecting and then demonstrating applicable technologies suited to our needs and;
3. Evaluating and subsequently deploying (if deemed acceptable) technologies for Post closure stewardship.

The plan is to perform the specific tasks as described in the TTP with the schedule as follows:

Task Start: 12/00

Task Completion: 12/01

1.5.9)2 Quantification

The quantification is summarized in the table that appears at the end of this section

1.5.10 Task #10 – PPCS – TTP No. OH19DD62, Fernald Technology Transfer Project

The scope of work includes, but is not limited to: generation of all project documentation, generation of plans and work scopes, project control support, generation of monthly reports, variance reports (if needed), and summary report. Procurement of required project materials, travel to attend meetings and conferences, and all other activities related to this scope as directed by the FEMP TPO.

Specifically, the current work scope involves activities that will bring this project to an end and then redirect the remaining funds to another ASTD project.

The plan is to perform the specific tasks as described in the TTP with the schedule as follows:

Task Start: 12/00

Task Completion: 12/01

1.5.10)2 Quantification

The quantification is summarized in the table that appears at the end of this section

1.5.11 Task #11 – PUDP – TTP No. OH10DD21, Universal Demolition Processor

The scope of work includes, but is not limited to: generation of all project documentation, generation of plans and work scopes, project control support, generation of monthly reports, variance reports (if needed), and summary report. Procurement of required project materials, travel to attend meetings and conferences, and all other activities related to this scope as directed by the FEMP TPO.

Specifically, this ASTD project will procure and deploy a universal demolition processor for processing Fernald's concrete into useable aggregate that is needed for road construction, and for segmenting large, hard to cut, plate steel and tanks.

The plan is to perform the specific tasks as described in the TTP with the schedule as follows:

Task Start: 12/00

Task Completion: 12/01

1.5.11)2 Quantification

The quantification is summarized in the table that appears at the end of this section

1.5.12 Task #12 – TTP To Be Determined, Future New Project(s) To Be Defined

1.5.12)1 Plan/Scope

The scope of work includes, but is not limited to: generation of all project documentation, generation of plans and work scopes, project control support, generation of monthly reports, variance reports (if needed), and summary report. Procurement of required project materials, travel to attend meetings and conferences, and all other activities related to this scope as directed by the FEMP TPO. Specifically, the scope is to work with the projects to identify needs and then bring in new/innovative technologies that improve safety, lower cost, and shorten schedules to help meet the projects needs.

The plan is to perform the specific tasks as described in the TTP with the schedule as follows:

Task Start: 10/01

Task Completion: 9/08

1.5.12)2 Quantification

The quantification is summarized in the table that appears at the end of this section.

5A1- Currently funded

FY	01	02	03	04	05	06	07	08	09	10
Current Projects Plus New Large Project Starts	12	6	1	1	0	0	0	0	0	0
Manage/maintain TTPs, CPs, Monthly Reports, Budgets, ECTs, for ongoing plus Large Project New Starts	12	6	1	1	0	0	0	0	0	0
Tech Program Program Manager	0	0	0	0	0	0	0	0	0	0
Tech Program Support Manager	0	0	0	0	0	0	0	0	0	0
Tech Program Support Rep.	4	1.6	0.6	0.3	0	0	0	0	0	0
Secretary	0	0	0	0	0	0	0	0	0	0
Travel & Expenses	\$10,000	\$ 8,000	\$ 4,000	\$ 2,000						
Total for 5A1 – Currently funded	4	1.6	0.6	0.3	0	0	0	0	0	0

5A2-Future Funded

FY	01	02	03	04	05	06	07	08	09	10
Current Projects Plus New Large Project Starts		5	12	12	9	6	4	2	0	0
Manage/maintain TTPs, CPs, Monthly Reports, Budgets, ECTs, for ongoing plus Large Project New Starts		5	12	12	9	6	4	2	0	0
Tech Program Program Manager		0	0	0	0	0	0	0	0	0
Tech Program Support Manager		0	0.1	0.5	0.6	0.5	0	0	0	0
Tech Program Support Rep.		3.4	5.3	4.9	4.2	1.9	1.1	0.6	0	0
Secretary		0	0	0	0	0	0	0	0	0
Travel & Expenses		\$12,000	\$21,000	\$18,000	\$15,000	\$10,000	\$10,000			
Total for 5A2 -Future Funded		3.4	5.4	5.4	4.8	2.4	1.1	0.6	0	0

SECTION 1

2.0 MANPOWER PLANS

Manpower Planning Sheet (CR2)

MPS # 2A01 TECHNOLOGY DEVELOPMENT PROGRAMS

DRIVERS	START DATE	END DATE	TOT	FY 2001				FY 2002				FY 2003				FY 2004				FY 2005				FY 2006			
				Q1	Q2	Q3	Q4																				
Project Management			118.40	4	4	4	4	5	5	5	5	6	6	6	6	5.7	5.7	5.7	5.7	4.8	4.8	4.8	4.8	2.4	2.4	2.4	2.4
Project Management			6.80	0	0	0	0	0	0	0	0	0.1	0.1	0.1	0.1	0.5	0.5	0.5	0.5	0.8	0.6	0.6	0.6	0.5	0.5	0.5	0.5
Sheet Totals:				4.00	4.00	4.00	4.00	5.00	5.00	5.00	5.00	6.10	6.10	6.10	6.10	6.20	6.20	6.20	6.20	5.40	5.40	5.40	5.40	2.90	2.90	2.90	2.90

SECTION 1

3.0 ESTIMATE

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SECTION 1

4.0 RISK PLAN

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**WBS DICTIONARY
CONTROL ACCOUNT/CHARGE NUMBER**

U.S. DEPARTMENT OF ENERGY
WORK BREAKDOWN STRUCTURE DICTIONARY
PART II - ELEMENT DEFINITION

1. PROJECT TITLE FEMP (NON-DEFENSE)	2. DATE OF CONTRACT 12/01/2000
3. IDENTIFICATION NUMBER DE-AC24-01OH20115	4. INDEX LINE NO. 79
5. WBS ELEMENT CODE 1.2.B	6. WBS ELEMENT TITLE MISCELLANEOUS PROGRAMS
7. APPROVED CP NO. NEW PER CP# FY01-0115-0000-01	8. DATE OF CHANGES 12/01/2000
9. SYSTEM DESIGN DESCRIPTION CERCLA/ACA	10. BUDGET AND REPORTING NUMBER Various
<p>11. ELEMENT TASK DESCRIPTION</p> <p><u>a. ELEMENTS OF COST:</u></p> <p>Labor Materials Subcontracts ODCs</p> <p><u>b. TECHNICAL CONTENT:</u></p> <p>Non-Defense Miscellaneous Projects consist of multiple programs. See scope of work below.</p> <p><u>c. SCOPE OF WORK:</u></p> <p>MISCELLANEOUS PROJECTS:</p> <p>EPIDEMIOLOGICAL ACTIVITIES PROGRAM: Provide a morbidity study of the site population to the Occupational Health Surveillance Program (OHSP) Data Collection Center of the Department of Energy, Office of Epidemiology and Health Surveillance (OEHS).</p> <p>Provide monthly health events report and a quarterly roster of Fernald contract workers. Transmit dosimetry data on all monitored workers annually.</p> <p>CYBER SECURITY: This element provides for the purchase, installation, and technical oversight of an Intrusion Detection Server for which funds are provided through the DOE-OH. This scope of work includes the purchase, installation and licensing for the DOEnet firewall.</p> <p>FERNALD CITIZENS ADVISORY BOARD: Provide for the funds to be distributed locally to the Fernald Citizens Advisory Board (CAB) and to provide assistance as needed for the Site Specific Advisory</p>	

U.S. DEPARTMENT OF ENERGY
WORK BREAKDOWN STRUCTURE DICTIONARY
PART II - ELEMENT DEFINITION

1. PROJECT TITLE FEMP (NON-DEFENSE)	2. DATE OF CONTRACT 12/01/2000	
3. IDENTIFICATION NUMBER DE-AC24-01OH20115		4. INDEX LINE NO. 79
5. WBS ELEMENT CODE 1.2.B	6. WBS ELEMENT TITLE MISCELLANEOUS PROGRAMS	
7. APPROVED CP NO. NEW PER CP# FY01-0115-0000-01		8. DATE OF CHANGES 12/01/2000
9. SYSTEM DESIGN DESCRIPTION CERCLA/ACA	10. BUDGET AND REPORTING NUMBER Various	
11. ELEMENT TASK DESCRIPTION Board participation in the 2006 Plan and National Dialogue activities. VACUUM TRANSFER SYSTEM: The FEMP is developing a process for transferring material from their current configuration into approved transport packages. Part of this effort will include the procurement of a material transfer system as the key component of this process. WEST VALLEY AUDIT Provides for the performance of an informal (non-documented) review of the West Valley Nuclear Project's preparation for an initial audit of the their waste certification program by Nevada Test Site (NTS) Radioactive Waste Acceptance Program. INTEGRATED TECHNOLOGY SUITE DEPLOYMENT AT OAK RIDGE Provides for the transfer of scope from the Oak Ridge Reservation (ORR) to Fernald for the purpose of the Integrated Technology Suite (ITS) deployment at ORR.		

**WORK SCOPE DEFINITION
(Control Account)**

1. PROJECT TITLE FEMP (NON-DEFENSE)		2. DATE 12/01/2000	Page 1
3. WBS ELEMENT CODE 1.2.B	4. WBS ELEMENT TITLE/NAME MISCELLANEOUS PROGRAMS		
5. PERFORMING DIV/DEPARTMENT CODE 41	6. ORIGINATOR NAME/PHONE DEBBY SMITH / 648-4442	7. WBS ELEMENT MANAGER GEORGE GARTRELL	
8. BUDGET AND REPORTING NUMBER HD2006200	9. BUDGET TITLE EPIDEMIOLOGIC STUDIES		
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE? NEW PER CP# FY01-0115-0000-01		11. ESTIMATED START / COMPLETION DATE 12/01/00 - 12/27/09	
12. TASK IDENTIFICATION (CONTROL ACCOUNT) PCAA	13. TASK DESCRIPTION (ONE LINE) EPIDEMIOLOGICAL STUDIES		
14. ELEMENT TASK DESCRIPTION			
<p><u>a. ELEMENTS OF COST:</u></p> <p>Labor Materials ODCs</p> <p><u>b. TECHNICAL CONTENT:</u></p> <p>DOE Occupational Health Surveillance Program and Site Population Morbidity Study</p> <p><u>c. SCOPE OF WORK:</u></p> <p>Provide for the Occupational Health Surveillance Program (OHSP) of the DOE Office of Epidemiology and Health Surveillance (OEHS) a morbidity study of the site population. This program includes the following activities:</p> <ul style="list-style-type: none"> - Encrypted social security numbers are used to provide the OHSP data collection center with a roster of active employees. This is updated quarterly and sent in ASCII format electronically. - Provide a monthly health events report in ASCII format electronically to the data collection center. Report to work following a five-day absence is considered a health event. All treatment for work-related injuries or illnesses, all malignancies, all disability retirements, and all deaths of an actively employed worker are also reported as health events. - Maintain the health events portion of the electronic medical record of the site population and verify employee demographics for the roster. - Respond to queries from the data collection center regarding clarification of 			
Project Manager <i>Deborah J Smith</i>	Control Account Manager <i>George Gartrell</i> <i>for George Gartrell</i>	Control Team Manager <i>Linda Weste</i>	

**WORK SCOPE DEFINITION
(Control Account)**

1. PROJECT TITLE FEMP (NON-DEFENSE)		2. DATE 12/01/2000	Page
3. WBS ELEMENT CODE 1.2.B	4. WBS ELEMENT TITLE/NAME MISCELLANEOUS PROGRAMS		
5. PERFORMING DIV/DEPARTMENT CODE 41	6. ORIGINATOR NAME/PHONE DEBBY SMITH / 648-4442	7. WBS ELEMENT MANAGER GEORGE GARTRELL	
8. BUDGET AND REPORTING NUMBER HD2006200	9. BUDGET TITLE EPIDEMIOLOGIC STUDIES		
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE? NEW PER CP# FY01-0115-0000-01		11. ESTIMATED START / COMPLETION DATE 12/01/00 - 12/27/09	
12. TASK IDENTIFICATION (CONTROL ACCOUNT) PCAA	13. TASK DESCRIPTION (ONE LINE) EPIDEMIOLOGICAL STUDIES		

14. ELEMENT TASK DESCRIPTION

data or resolution of anomalous records.

- Coordinate between various departments in order to update medical records demographics with information required by the data collection center.

- Initiate collection of selected dosimetry data on all monitored workers consistent with technical guidance provided by the Epidemiologic Surveillance Data Center. Dosimetry data will be transmitted annually to the Data Center based on the calendar year.

d. WORK SPECIFICALLY EXCLUDED:

All Defense Programs Scope.

WORK SCOPE DEFINITION
(Work Package)

1. PROJECT TITLE FEMP (NON-DEFENSE)		2. DATE 12/01/2000	Page 1
3. WBS ELEMENT CODE 1.2.B	4. WBS ELEMENT TITLE/NAME MISCELLANEOUS PROGRAMS		
5. PERFORMING DIV/DEPARTMENT CODE 41	6. ORIGINATOR NAME/PHONE DEBBY SMITH / 648-4442	7. WBS ELEMENT MANAGER GEORGE GARTRELL	
8. BUDGET AND REPORTING NUMBER HD2006200	9. BUDGET TITLE EPIDEMIOLOGIC STUDIES		
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE? NEW PER CP# FY01-0115-0000-01		11. ESTIMATED START / COMPLETION DATE 12/01/00 - 12/27/09	
12. TASK IDENTIFICATION (WORK PACKAGE) PCAA1	13. TASK DESCRIPTION (ONE LINE) HEALTH SURVEILLANCE ACTIVITIES		
14. ELEMENT TASK DESCRIPTION			
<p><u>a. ELEMENTS OF COST:</u></p> <p>Labor ODCs Materials</p> <p><u>b. TECHNICAL CONTENT:</u></p> <p>DOE Health Surveillance Program: Medical Services</p> <p><u>c. SCOPE OF WORK:</u></p> <p>Transmit data to the Occupational Health Surveillance Program (OHSP) of the DOE Office of Epidemiology and Health Surveillance (OEHS) for a morbidity study of the site population. This program includes the following activities:</p> <ul style="list-style-type: none"> - Encrypted social security numbers are used to provide the OHSP data collection center with a roster of active employees. This is updated quarterly and sent in ASCII format electronically. - Provide a monthly health events report in ASCII format electronically to the data collection center. Reporting to work following a five-day absence is considered a health event. Treatment of OSHA recordable injuries or illnesses, all malignancies, all disability retirements, and all deaths of actively employed workers are also reported as health events. - Maintain the health events portion of the electronic medical record of the site population and verify employee demographics for the roster. - Respond to queries from the data collection center regarding clarification of 			
Project Manager <i>Deborah J Smith</i>	Control Account Manager <i>George Gartrell</i> for George Gartrell	Control Team Manager <i>Kindra Weste</i>	

WORK SCOPE DEFINITION
(Work Package)

1. PROJECT TITLE FEMP (NON-DEFENSE)	2. DATE 12/01/2000	Page 2
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3. WBS ELEMENT CODE 1.2.B	4. WBS ELEMENT TITLE/NAME MISCELLANEOUS PROGRAMS
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5. PERFORMING DIV/DEPARTMENT CODE 41	6. ORIGINATOR NAME/PHONE DEBBY SMITH / 648-4442	7. WBS ELEMENT MANAGER GEORGE GARTRELL
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8. BUDGET AND REPORTING NUMBER HD2006200	9. BUDGET TITLE EPIDEMIOLOGIC STUDIES
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10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE? NEW PER CP# FY01-0115-0000-01	11. ESTIMATED START / COMPLETION DATE 12/01/00 - 12/27/09
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12. TASK IDENTIFICATION (WORK PACKAGE) PCAA1	13. TASK DESCRIPTION (ONE LINE) HEALTH SURVEILLANCE ACTIVITIES
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14. ELEMENT TASK DESCRIPTION

data or resolution of anomalous records.

- Coordinate between various departments in order to update medical records demographics with information required by the data collection center.
- Encrypt dosimetry data on all monitored workers consistent with technical guidance provided by the Epidemiologic Surveillance Data Center. Dosimetry data will be transmitted annually to the Data Center based on the calendar year.

d. WORK SPECIFICALLY EXCLUDED:

All Defense Programs Scope.

**WORK SCOPE DEFINITION
(Control Account)**

1. PROJECT TITLE FEMP (NON-DEFENSE)		2. DATE 12/01/2000	Page 1
3. WBS ELEMENT CODE 1.2.B	4. WBS ELEMENT TITLE/NAME MISCELLANEOUS PROGRAMS		
5. PERFORMING DIV/DEPARTMENT CODE 41	6. ORIGINATOR NAME/PHONE JEFF WAGNER / 648-4898	7. WBS ELEMENT MANAGER GEORGE GARTRELL	
8. BUDGET AND REPORTING NUMBER EW02MM11A	9. BUDGET TITLE INTERGOVERNMENTAL AFFAIR/PUBLIC ACCOUNTABILITY		
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE? NEW PER CP FY01-0115-0000-01		11. ESTIMATED START / COMPLETION DATE 12/01/00 - 09/30/02	
12. TASK IDENTIFICATION (CONTROL ACCOUNT) PCAB	13. TASK DESCRIPTION (ONE LINE) FERNALD CITIZENS ADVISORY BOARD		
14. ELEMENT TASK DESCRIPTION			
<p><u>a. ELEMENTS OF COST:</u></p> <p>Subcontractor ODCs</p> <p><u>b. TECHNICAL CONTENT:</u></p> <p>Provide for funds to be distributed locally to the Fernald Citizens Advisory Board (CAB) to provide assistance needed for their participation in complex-wide Environmental Management Site-Specific Advisory Board (EMSSAB) activities, such as EMSSAB Charis' meetings, EMSSAB seminars, and other events with direct bearing on EMSSAB interests and activities.</p> <p><u>c. SCOPE OF WORK:</u></p> <p>The Fernald Citizens Advisory Board (CAB) is an Environmental Management Site-Specific Advisory Board (EMSSAB) originally chartered to provide recommendations to DOE, U.S.EPA, and Ohio EPA regarding concerns associated with the Fernald cleanup. Since making its original set of recommendations in 1995, the CAB and its various committees have continued to provide independent viewpoint on many of the key issues and major projects that are now facing the site during cleanup. Representatives of the CAB are periodically requested to travel to attend complex-wide seminars on specific topics of interest (such as Long-Term Stewardship or Waste Transportation) or to meet with leadership from other EMSSABs. There are also instances where it is in the CAB's best interest to send representatives to attend seminars or workshops on topics of interest that are being held by other public organizations. DOE Washington - HQ has allocated funds for each Citizens Advisory Board across the complex for planning and conducting workshops or meetings, for outreach activities, for travel costs, for materials reproduction related to these meetings, etc.</p>			
Project Manager <i>Jeff Wagner</i>	Control Account Manager <i>S. Humphreys</i> for George Gartrell	Control Team Manager <i>Linda Waste</i>	

**WORK SCOPE DEFINITION
(Control Account)**

1. PROJECT TITLE FEMP (NON-DEFENSE)		2. DATE 12/01/2000	Page 2
3. WBS ELEMENT CODE 1.2.B	4. WBS ELEMENT TITLE/NAME MISCELLANEOUS PROGRAMS		
5. PERFORMING DIV/DEPARTMENT CODE 41	6. ORIGINATOR NAME/PHONE JEFF WAGNER / 648-4898	7. WBS ELEMENT MANAGER GEORGE GARTRELL	
8. BUDGET AND REPORTING NUMBER EW02MM11A	9. BUDGET TITLE INTERGOVERNMENTAL AFFAIR/PUBLIC ACCOUNTABILITY		
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE? NEW PER CP FY01-0115-0000-01		11. ESTIMATED START / COMPLETION DATE 12/01/00 - 09/30/02	
12. TASK IDENTIFICATION (CONTROL ACCOUNT) PCAB	13. TASK DESCRIPTION (ONE LINE) FERNALD CITIZENS ADVISORY BOARD		
14. ELEMENT TASK DESCRIPTION			

d. WORK SPECIFICALLY EXCLUDED:

Fluor Daniel Fernald support staff, and administrative support costs provided by Public Affairs and all Defense Programs Scope.

WORK SCOPE DEFINITION
(Work Package)

1. PROJECT TITLE FEMP (NON-DEFENSE)	2. DATE 12/01/2000	Page 1
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3. WBS ELEMENT CODE 1.2.B	4. WBS ELEMENT TITLE/NAME MISCELLANEOUS PROGRAMS
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5. PERFORMING DIV/DEPARTMENT CODE 41	6. ORIGINATOR NAME/PHONE JEFF WAGNER / 648-4898	7. WBS ELEMENT MANAGER GEORGE GARTRELL
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8. BUDGET AND REPORTING NUMBER EW02MM11A	9. BUDGET TITLE INTERGOVERNMENTAL AFFAIR/PUBLIC ACCOUNTABILITY
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10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE? NEW PER CP FY01-0115-0000-01	11. ESTIMATED START / COMPLETION DATE 12/01/00 - 09/30/02
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12. TASK IDENTIFICATION (WORK PACKAGE) PCAB2	13. TASK DESCRIPTION (ONE LINE) FERNALD CITIZENS ADVISORY BOARD
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14. ELEMENT TASK DESCRIPTION

a. ELEMENTS OF COST:

ODCs
Subcontractor

b. TECHNICAL CONTENT:

Provide for funds to be distributed locally to the Fernald Citizens Advisory Board (CAB) to provide assistance needed for their participation in complex wide Environmental Management Site-Specific Advisory Board (EMSSAB) activities, such as EMSSAB Chairs' meetings, EMSSAB seminars, and other events with direct bearing on EMSSAB interests and activities, and also for development/maintenance of an independent FCAB Website.

c. SCOPE OF WORK:

The Fernald Citizens Advisory Board (CAB) is an Environmental Management Site-Specific Advisory Board (EMSSAB) originally chartered to provide recommendations to DOE, U.S.EPA, and Ohio EPA regarding concerns associated with the Fernald cleanup. Since making its original set of recommendations in 1995, the CAB and its various committees have continued to provide independent viewpoint on many of the key issues and major projects that are now facing the site during cleanup. Representatives of the CAB are periodically requested to travel to attend complex-wide seminars on specific topics of interest (such as Long-Term Stewardship or Waste Transportation) or to meet with leadership from other EMSSABs. There are also instances where it is in the CAB's best interest to send representatives to attend seminars or workshops on topics of interest that are being held by other public organizations. DOE Washington - HQ has allocated funds for each Citizens Advisory Board across the complex for planning and conducting workshops or meetings, for outreach activities, for travel costs,

Project Manager <i>[Signature]</i>	Control Account Manager <i>[Signature]</i> for George Gartrell	Control Team Manager <i>[Signature]</i>
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WORK SCOPE DEFINITION
(Work Package)

1. PROJECT TITLE FEMP (NON-DEFENSE)		2. DATE 12/01/2000	Page 2
3. WBS ELEMENT CODE 1.2.B	4. WBS ELEMENT TITLE/NAME MISCELLANEOUS PROGRAMS		
5. PERFORMING DIV/DEPARTMENT CODE 41	6. ORIGINATOR NAME/PHONE JEFF WAGNER / 648-4898	7. WBS ELEMENT MANAGER GEORGE GARTRELL	
8. BUDGET AND REPORTING NUMBER EW02MM11A	9. BUDGET TITLE INTERGOVERNMENTAL AFFAIR/PUBLIC ACCOUNTABILITY		
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE? NEW PER CP FY01-0115-0000-01		11. ESTIMATED START / COMPLETION DATE 12/01/00 - 09/30/02	
12. TASK IDENTIFICATION (WORK PACKAGE) PCAB2	13. TASK DESCRIPTION (ONE LINE) FERNALD CITIZENS ADVISORY BOARD		

14. ELEMENT TASK DESCRIPTION

for materials reproduction related to these meetings, etc. Similarly, the FCAB independent Website links the FCAB to other SSABs across the nation, and broadens its potential audience and sources of public feedback.

d. WORK SPECIFICALLY EXCLUDED:

- Fluor Fernald support staff, and administrative support costs provided by Public Affairs.
- All Defense Programs scope

**WORK SCOPE DEFINITION
(Control Account)**

1. PROJECT TITLE FEMP (NON-DEFENSE)		2. DATE 12/01/2000	Page 1
3. WBS ELEMENT CODE 1.2.B	4. WBS ELEMENT TITLE/NAME MISCELLANEOUS PROGRAMS		
5. PERFORMING DIV/DEPARTMENT CODE 41	6. ORIGINATOR NAME/PHONE JAN ARNETT / 648-6207	7. WBS ELEMENT MANAGER GEORGE GARTRELL	
8. BUDGET AND REPORTING NUMBER GD0703000	9. BUDGET TITLE OPERATIONS - CYBER SECURITY		
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE? NEW SCOPE PER CP FY01-0115-0000-01		11. ESTIMATED START / COMPLETION DATE 01/01/01 - 09/30/04	
12. TASK IDENTIFICATION (CONTROL ACCOUNT) PCYB	13. TASK DESCRIPTION (ONE LINE) CYBER SECURITY		

14. ELEMENT TASK DESCRIPTION

a. ELEMENTS OF COST:

Materials
Subcontracts

b. TECHNICAL CONTENT:

This element provides for the purchase, installation, and technical oversight of an Intrusion Detection Server for which funds are provided through the DOE-OH. This scope of work includes the purchase, installation and licensing for the DOEnet firewall.

c. SCOPE OF WORK:

Purchase and install an Intrusion Detection Server, equipment for Internet firewall infrastructure upgrades as well as equipment and licensing for the DOEnet firewall, and password validation software for cyber security enhancement of the Fernald Unclassified network. The activities shall include but are not limited to the following activities; Purchase and installation of network intrusion hardware and software; purchase and installation of firewall equipment (routers/network cards) and cabling; purchase and installation of password validation software on the site's domain controller; purchase license and equipment and installation of the DOEnet firewall between the DOEnet network and Fernald's internal network.

d. WORK SPECIFICALLY EXCLUDED:

All Defense Programs Scope.

Project Manager <i>J. Arnett</i>	Control Account Manager <i>S. Hummel</i> <i>for George Sartrell</i>	Control Team Manager <i>Linda Weste</i>
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**WORK SCOPE DEFINITION
(Control Account)**

1. PROJECT TITLE FEMP (NON-DEFENSE)		2. DATE 06/25/2001	Page 1
3. WBS ELEMENT CODE 1.2.B	4. WBS ELEMENT TITLE/NAME MISCELLANEOUS PROGRAMS		
5. PERFORMING DIV/DEPARTMENT CODE 41	6. ORIGINATOR NAME/PHONE JOAN WHITE / 648-5026	7. WBS ELEMENT MANAGER GEORGE GARTRELL	
8. BUDGET AND REPORTING NUMBER YN1901000	9. BUDGET TITLE WORK PERFORMED FOR OTHER DOE LOCATIONS		
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE? NEW PER CP FY01-0115-0000-01		11. ESTIMATED START / COMPLETION DATE 07/01 - 09/30/2001	
12. TASK IDENTIFICATION (CONTROL ACCOUNT) PTSD	13. TASK DESCRIPTION (ONE LINE) INTEGRATED TECHNOLOGY SUITE DEPLOYMENT AT OAK RIDGE OR001		

14. ELEMENT TASK DESCRIPTION

a. ELEMENTS OF COST:

Labor
Materials
Subcontracts
ODCs

b. TECHNICAL CONTENT:

This control account established the transfer of scope from the Oak Ridge Reservation (ORR) to Fernald for the purpose of the Integrated Technology Suite (ITS) deployment at ORR. The deployment is being sponsored by the ORR Office of Science and Technology under the ORR Technical Task Plan (TTP) ORR001SS21.

The ITS has been deployed at the Fernald Site by the Soils and Disposal Facility/Real Time Instrumentation Measurement Program (SDFP/RTIMP). The ITS was developed using EM-50 DOE HQ funds for use at Fernald. The DOE requests the ITS process be deployed at the ORR reservation to determine if the process would work at ORR and save remediation time and money.

The SDFP/RTIMP personnel will deploy the Radiation Scanning System, the High Purity Germanium detector, and the mapping van at ORR to characterize a 6 acre area for gamma discernable radiological contamination. Analytical results and contamination identification maps will be provided to ORR personnel.

c. SCOPE OF WORK:

Plan the ITS deployment.

FF personnel time and travel for the deployment at ORR.

Project Manager <i>Joan White</i>	Control Account Manager <i>SK [Signature]</i> for George Gartrell	Control Team Manager <i>Linda Waste</i>
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WORK SCOPE DEFINITION
(Control Account)

1. PROJECT TITLE FEMP (NON-DEFENSE)		2. DATE 06/25/2001	Page 2
3. WBS ELEMENT CODE 1.2.B	4. WBS ELEMENT TITLE/NAME MISCELLANEOUS PROGRAMS		
5. PERFORMING DIV/DEPARTMENT CODE 41	6. ORIGINATOR NAME/PHONE JOAN WHITE / 648-5026	7. WBS ELEMENT MANAGER GEORGE GARTRELL	
8. BUDGET AND REPORTING NUMBER YN1901000	9. BUDGET TITLE WORK PERFORMED FOR OTHER DOE LOCATIONS		
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE? NEW PER CP FY01-0115-0000-01		11. ESTIMATED START / COMPLETION DATE 07/01 - 09/30/2001	
12. TASK IDENTIFICATION (CONTROL ACCOUNT) PTSD	13. TASK DESCRIPTION (ONE LINE) INTEGRATED TECHNOLOGY SUITE DEPLOYMENT AT OAK RIDGE OR001		

14. ELEMENT TASK DESCRIPTION

d. WORK SPECIFICALLY EXCLUDED:

Work not related to the TTP OR001SS21 and all Defense Programs Scope.

WORK SCOPE DEFINITION
(Work Package)

1. PROJECT TITLE FEMP (NON-DEFENSE)		2. DATE 06/25/2001	Page 1
3. WBS ELEMENT CODE 1.2.B		4. WBS ELEMENT TITLE/NAME MISCELLANEOUS PROGRAMS	
5. PERFORMING DIV/DEPARTMENT CODE 41		6. ORIGINATOR NAME/PHONE JOAN WHITE / 648-5026	7. WBS ELEMENT MANAGER GEORGE GARTRELL
8. BUDGET AND REPORTING NUMBER YN1901000		9. BUDGET TITLE WORK PERFORMED FOR OTHER DOE LOCATIONS	
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE? NEW PER CP FY01-0115-0000-01			11. ESTIMATED START / COMPLETION DATE 07/01 - 09/30/2001
12. TASK IDENTIFICATION (WORK PACKAGE) PTSD1		13. TASK DESCRIPTION (ONE LINE) INTEGRATED TECHNOLOGY SUITE DEPLOYMENT AT OAK RIDGE ORR00SS2	
14. ELEMENT TASK DESCRIPTION			
<p><u>a. ELEMENTS OF COST:</u></p> <p>Labor Materials Subcontracts ODCs</p> <p><u>b. TECHNICAL CONTENT:</u></p> <p>This control account established the transfer of scope from the Oak Ridge Reservation (ORR) to Fernald for the purpose of the Integrated Technology Suite (ITS) deployment at ORR. The deployment is being sponsored by the ORR Office of Science and Technology under the ORR Technical Task Plan (TTP) ORR001SS21.</p> <p>The ITS has been deployed at the Fernald Site by the Soils and Disposal Facility/Real Time Instrumentation Measurement Program (SDFP/RTIMP). The ITS was developed using EM-50 DOE HQ funds for use at Fernald. The DOE requests the ITS process be deployed at the ORR reservation to determine if the process would work at ORR and save remediation time and money.</p> <p>The SDFP/RTIMP personnel will deploy the Radiation Scanning System, the High Purity Germanium detector, and the mapping van at ORR to characterize a 6 acre area for gamma discernable radiological contamination. Analytical results and contamination identification maps will be provided to ORR personnel.</p> <p><u>c. SCOPE OF WORK:</u></p> <p>Plan the ITS deployment.</p> <p>FF personnel time and travel for the deployment at ORR.</p>			
Project Manager <i>Joan White</i>		Control Account Manager <i>George Gartrell</i> <i>for George Gartrell</i>	Control Team Manager <i>Linda Weste</i>

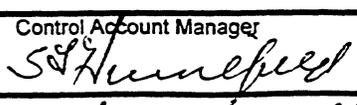
WORK SCOPE DEFINITION
(Work Package)

1. PROJECT TITLE FEMP (NON-DEFENSE)		2. DATE 06/25/2001	Page 2
3. WBS ELEMENT CODE 1.2.B	4. WBS ELEMENT TITLE/NAME MISCELLANEOUS PROGRAMS		
5. PERFORMING DIV/DEPARTMENT CODE 41	6. ORIGINATOR NAME/PHONE JOAN WHITE / 648-5026	7. WBS ELEMENT MANAGER GEORGE GARTRELL	
8. BUDGET AND REPORTING NUMBER YN1901000	9. BUDGET TITLE WORK PERFORMED FOR OTHER DOE LOCATIONS		
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE? NEW PER CP FY01-0115-0000-01		11. ESTIMATED START / COMPLETION DATE 07/01 - 09/30/2001	
12. TASK IDENTIFICATION (WORK PACKAGE) PTSD1	13. TASK DESCRIPTION (ONE LINE) INTEGRATED TECHNOLOGY SUITE DEPLOYMENT AT OAK RIDGE OR00S		
14. ELEMENT TASK DESCRIPTION			

d. WORK SPECIFICALLY EXCLUDED:

All Defense Programs scope and work not related to the TTP OR001SS21.

WORK SCOPE DEFINITION (Control Account)

1. PROJECT TITLE FEMP (NON-DEFENSE)		2. DATE 12/01/2000	Page 1
3. WBS ELEMENT CODE 1.2.B	4. WBS ELEMENT TITLE/NAME MISCELLANEOUS PROGRAMS		
5. PERFORMING DIV/DEPARTMENT CODE 41	6. ORIGINATOR NAME/PHONE BOB SCHULTEN / 648-5730	7. WBS ELEMENT MANAGER GEORGE GARTRELL	
8. BUDGET AND REPORTING NUMBER 820101000	9. BUDGET TITLE TRANSFER TO OTHERS DIFFERENCE FIS CODE		
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE? NEW PER CP # FY01-0115-0000-01		11. ESTIMATED START / COMPLETION DATE 12/01/00 - 09/30/01	
12. TASK IDENTIFICATION (CONTROL ACCOUNT) PVTS	13. TASK DESCRIPTION (ONE LINE) VACUUM TRANSFER SYSTEM		
<p>14. ELEMENT TASK DESCRIPTION</p> <p><u>a. ELEMENTS OF COST:</u></p> <p>Labor Material Subcontracts</p> <p><u>b. TECHNICAL CONTENT:</u></p> <p>This control account provides for a repackaging system for removing >1% U-235 enriched uranium compounds with various particle sizes and other varying physical characteristics (i.e., density, moisture content) from multiple sizes of storage containers to approved transportation packages. The system would provide confirmation testing of the concept using proven techniques with an innovative approach.</p> <p>As a result of the abrupt cessatin of activities at the site, materials remained in inventory in storage quantities that had been planned for production purposes and not for off-site shipment. Due to the loss of process capabilities during site remediation, there is currently no system in place to transfer these materials to shippable quantities/container. These materials will not meet Department of Transportation regulations in their present storage quantities and will require repackaging.</p> <p>A transfer system has been proposed as the key process equipment to repackage uranium compounds for shipping. The repackaging system will be installed in Building 56A. The system will be designed to accommodate various sized containers, both on the intake and discharge sides. The repackaging system must also be capable of accommodating various particle sizes, humidity, and density variations. The process must 1) minimize secondary waste streams, 2) maximize transfer rate while minimizing filter loading, and 3) incorporate ergonomic design. In addition, the equipment should be easily decontaminated and transportable. The repackaging unit must itself meet applicable DOT</p>			
Project Manager 	Control Account Manager  <i>for George Gartrell</i>	Control Team Manager 	

WORK SCOPE DEFINITION
(Control Account)

1. PROJECT TITLE FEMP (NON-DEFENSE)		2. DATE 12/01/2000	Page 2
3. WBS ELEMENT CODE 1.2.B	4. WBS ELEMENT TITLE/NAME MISCELLANEOUS PROGRAMS		
5. PERFORMING DIV/DEPARTMENT CODE 41	6. ORIGINATOR NAME/PHONE BOB SCHULTEN / 648-5730	7. WBS ELEMENT MANAGER GEORGE GARTRELL	
8. BUDGET AND REPORTING NUMBER 820101000	9. BUDGET TITLE TRANSFER TO OTHERS DIFFERENCE FIS CODE		
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE? NEW PER CP # FY01-0115-0000-01		11. ESTIMATED START / COMPLETION DATE 12/01/00 - 09/30/01	
12. TASK IDENTIFICATION (CONTROL ACCOUNT) PVTS	13. TASK DESCRIPTION (ONE LINE) VACUUM TRANSFER SYSTEM		

14. ELEMENT TASK DESCRIPTION

requirements, in order to facilitate transport and reuse of the equipment at other sites.

The container configuration for repackaging the uranium compounds must be verified by testing to prove that it meets DOT and DOE requirements for shipping enriched nuclear material.

c. SCOPE OF WORK:

The FEMP is developing a process for transferring material from their current configuration into approved transport packages. Part of this effort will include the procurement of a material transfer system as the key component of this process.

TASK A - DESIGN AND EVALUATION

The FY-2000 activities will include system

- Procurement and design evaluation,
- test planning, and testing of the package design, and
- technical support for experts from other sites and laboratories.

The technical support would be to verify process control and regulatory compliance of the transferred material, ensuring equipment meets objectives at other sites, and general review of the system.

TASK B - DEMONSTRATION - FY01

The procurement and demonstration of the transfer of material will be completed by September 2001. During this time lessons learned will be documented to provide information to other sites and facilities.

d. WORK SPECIFICALLY EXCLUDED:

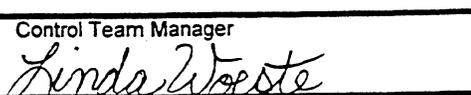
**WORK SCOPE DEFINITION
(Control Account)**

1. PROJECT TITLE FEMP (NON-DEFENSE)		2. DATE 12/01/2000	Page 3
3. WBS ELEMENT CODE 1.2.B	4. WBS ELEMENT TITLE/NAME MISCELLANEOUS PROGRAMS		
5. PERFORMING DIV/DEPARTMENT CODE 41	6. ORIGINATOR NAME/PHONE BOB SCHULTEN / 648-5730	7. WBS ELEMENT MANAGER GEORGE GARTRELL	
8. BUDGET AND REPORTING NUMBER 820101000	9. BUDGET TITLE TRANSFER TO OTHERS DIFFERENCE FIS CODE		
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE? NEW PER CP # FY01-0115-0000-01		11. ESTIMATED START / COMPLETION DATE 12/01/00 - 09/30/01	
12. TASK IDENTIFICATION (CONTROL ACCOUNT) PVTS	13. TASK DESCRIPTION (ONE LINE) VACUUM TRANSFER SYSTEM		

14. ELEMENT TASK DESCRIPTION

- All Defense Programs Scope.
- Purchase of 2 additional vacuum transfer systems.
- Processing >1% U235 after the demonstration is complete.

WORK SCOPE DEFINITION (Work Package)

1. PROJECT TITLE FEMP (NON-DEFENSE)		2. DATE 12/01/2000	Page 1
3. WBS ELEMENT CODE 1.2.B		4. WBS ELEMENT TITLE/NAME MISCELLANEOUS PROGRAMS	
5. PERFORMING DIV/DEPARTMENT CODE 41		6. ORIGINATOR NAME/PHONE BOB SCHULTEN / 648-5730	7. WBS ELEMENT MANAGER GEORGE GARTRELL
8. BUDGET AND REPORTING NUMBER 820101000		9. BUDGET TITLE TRANSFER TO OTHERS DIFFERENCE FIS CODE	
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE? NEW PER CP# FY01-0115-0000-01			11. ESTIMATED START / COMPLETION DATE 12/01/00 - 09/30/01
12. TASK IDENTIFICATION (WORK PACKAGE) PVTS1		13. TASK DESCRIPTION (ONE LINE) VACUUM TRANSFER SYSTEM	
<p><u>a. ELEMENTS OF COST:</u></p> <p>Labor Material Subcontracts</p> <p><u>b. TECHNICAL CONTENT:</u></p> <p>This control account provides for a repackaging system for removing >1% U-235 enriched uranium compounds with various particle sizes and other varying physical characteristics (i.e., density, moisture content) from multiple sizes of storage containers to approved transportation packages. The system would provide confirmation testing of the concept using proven techniques with an innovative approach.</p> <p>As a result of the abrupt cessation of activities at the site, materials remained in inventory in storage quantities that had been planned for production purposes and not for off-site shipment. Due to the loss of process capabilities during site remediation, there is currently no system in place to transfer these materials to shippable quantities/containers. These materials will not meet Department of Transportation regulations in their present storage quantities and will require repackaging.</p> <p>A transfer system has been proposed as the key process equipment to repackage uranium compounds for shipping. The repackaging system will be installed in Building 56A. The system will be designed to accommodate various sized containers, both on the intake and discharge sides. The repackaging system must also be capable of accommodating various particle sizes, humidity and density variations. The process must 1) minimize secondary waste streams, 2) maximize transfer rate while minimizing filter loading, and 3) incorporate ergonomic design. In addition, the equipment should be easily decontaminated and transportable. The repackaging unit must itself meet applicable DOT</p>			
Project Manager 		Control Account Manager  <i>for George Gartrell</i>	Control Team Manager 

WORK SCOPE DEFINITION
(Work Package)

1. PROJECT TITLE FEMP (NON-DEFENSE)		2. DATE 12/01/2000	Page 2
3. WBS ELEMENT CODE 1.2.B	4. WBS ELEMENT TITLE/NAME MISCELLANEOUS PROGRAMS		
5. PERFORMING DIV/DEPARTMENT CODE 41	6. ORIGINATOR NAME/PHONE BOB SCHULTEN / 648-5730	7. WBS ELEMENT MANAGER GEORGE GARTRELL	
8. BUDGET AND REPORTING NUMBER 820101000	9. BUDGET TITLE TRANSFER TO OTHERS DIFFERENCE FIS CODE		
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE? NEW PER CP# FY01-0115-0000-01		11. ESTIMATED START / COMPLETION DATE 12/01/00 - 09/30/01	

12. TASK IDENTIFICATION (WORK PACKAGE) PVTS1	13. TASK DESCRIPTION (ONE LINE) VACUUM TRANSFER SYSTEM
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14. ELEMENT TASK DESCRIPTION

requirements, in order to facilitate transport and reuse of the equipment at other sites.

The container configuration for repackaging the uranium compounds must be verified by testing to prove that it meets DOT and DOE requirements for shipping enriched nuclear material.

c. SCOPE OF WORK:

The FEMP is developing a process for transferring material from their current configuration into approved transport packages. Part of this effort will include the procurement of a material transfer system as the key component of this process.

TASK A - DESIGN AND EVALUATION

The FY-2000 activities will include system

- Procurement and design evaluation,
- test planning, and testing of the package design, and
- technical support for experts from other sites and laboratories.

The technical support would be to verify process control and regulatory compliance of the transferred material, ensuring equipment meets objectives at other sites, and general review of the system.

TASK B - DEMONSTRATION - FY01

The procurement and demonstration of the transfer of material will be completed by September 2001. During this time lessons learned will be documented to provide information to other sites and facilities.

d. WORK SPECIFICALLY EXCLUDED:

WORK SCOPE DEFINITION
(Work Package)

1. PROJECT TITLE FEMP (NON-DEFENSE)	2. DATE 12/01/2000	Page 3
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3. WBS ELEMENT CODE 1.2.B	4. WBS ELEMENT TITLE/NAME MISCELLANEOUS PROGRAMS
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5. PERFORMING DIV/DEPARTMENT CODE 41	6. ORIGINATOR NAME/PHONE BOB SCHULTEN / 648-5730	7. WBS ELEMENT MANAGER GEORGE GARTRELL
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8. BUDGET AND REPORTING NUMBER 820101000	9. BUDGET TITLE TRANSFER TO OTHERS DIFFERENCE FIS CODE
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10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE? NEW PER CP# FY01-0115-0000-01	11. ESTIMATED START / COMPLETION DATE 12/01/00 - 09/30/01
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12. TASK IDENTIFICATION (WORK PACKAGE) PVTS1	13. TASK DESCRIPTION (ONE LINE) VACUUM TRANSFER SYSTEM
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14. ELEMENT TASK DESCRIPTION

- All Defense Programs scope.
- Purchase of 2 additional vacuum transfer systems.
- Processing >1% U235 after the demonstration is complete.

WORK SCOPE DEFINITION
(Control Account)

1. PROJECT TITLE FEMP (NON-DEFENSE)		2. DATE 03/21/2001	Page 1
3. WBS ELEMENT CODE 1.2.B		4. WBS ELEMENT TITLE/NAME MISCELLANEOUS PROGRAMS	
5. PERFORMING DIV/DEPARTMENT CODE 41		6. ORIGINATOR NAME/PHONE GEORGE GARTRELL / 648-3996	7. WBS ELEMENT MANAGER GEORGE GARTRELL
8. BUDGET AND REPORTING NUMBER 820201000		9. BUDGET TITLE *TRANSFER TO OTHERS SAME FIS CODE	
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE? NEW PER CP# FY01-0115-0000-01			11. ESTIMATED START / COMPLETION DATE 01/01/01 - 06/30/01
12. TASK IDENTIFICATION (CONTROL ACCOUNT) PWVA		13. TASK DESCRIPTION (ONE LINE) WEST VALLEY AUDIT	
14. ELEMENT TASK DESCRIPTION			
<p><u>a. ELEMENTS OF COST:</u></p> <p>Labor Material ODCs Subcontracts</p> <p><u>b. TECHNICAL CONTENT:</u></p> <p>Perform an informal review of the West Valley Nuclear Project's preparation for an initial audit of the Waste Certification Program by the Nevada Test Site Radioactive Waste Acceptance Program.</p> <p><u>c. SCOPE OF WORK:</u></p> <p>Purpose was to perform an informal (non-documented) review of the West Valley Nuclear Project's preparation for an initial audit of their Waste Certification Program by the Nevada Test Site Radioactive Waste Acceptance Program.</p> <p><u>d. WORK SPECIFICALLY EXCLUDED:</u></p> <p>All Defense Programs Scope.</p>			
Project Manager <i>George Gartrell</i> for George Gartrell		Control Account Manager <i>George Gartrell</i> for George Gartrell	
		Control Team Manager <i>Hinda Weste</i>	

WORK SCOPE DEFINITION
(Work Package)

1. PROJECT TITLE FEMP (NON-DEFENSE)		2. DATE 03/21/2001	Page 1
3. WBS ELEMENT CODE 1.2.B	4. WBS ELEMENT TITLE/NAME MISCELLANEOUS PROGRAMS		
5. PERFORMING DIV/DEPARTMENT CODE 41	6. ORIGINATOR NAME/PHONE GEORGE GARTRELL / 648-3996	7. WBS ELEMENT MANAGER GEORGE GARTRELL	
8. BUDGET AND REPORTING NUMBER 820201000	9. BUDGET TITLE *TRANSFER TO OTHERS SAME FIS CODE		
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE? NEW PER CP# FY01-0115-0000-01		11. ESTIMATED START / COMPLETION DATE 01/01/01 - 6/30/01	
12. TASK IDENTIFICATION (WORK PACKAGE) PWVA1	13. TASK DESCRIPTION (ONE LINE) WEST VALLEY AUDIT		

14. ELEMENT TASK DESCRIPTION

a. ELEMENTS OF COST:

Labor
Material
Subcontract
ODCs

b. TECHNICAL CONTENT:

Perform an informal review of the West Valley Nuclear Project's preparation for an initial audit of the Waste Certification Program by the Nevada Test Site Radioactive Waste Acceptance Program.

c. SCOPE OF WORK:

Purpose was to perform an informal (non-documented) review of the West Valley Nuclear Project's preparation for an initial audit of their Waste Certification Program by the Nevada Test Site Radioactive Waste Acceptance Program.

d. WORK SPECIFICALLY EXCLUDED:

All Defense Programs scope.

Project Manager <i>[Signature]</i> for George Gartrell	Control Account Manager <i>[Signature]</i> for George Gartrell	Control Team Manager <i>[Signature]</i>
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SECTION 1

1.0 NARRATIVE

1. PROJECT TITLE: NON-DEFENSE CLOSURE	2. DATE: 04/23/01	3. PBS#: N/A
4. WBS ELEMENT CODE: 1.2.B	5. WBS ELEMENT TITLE: MISCELLANEOUS PROGRAMS	
6. CAM NAME/ PHONE: TERRY HAGEN/ 5261- GEORGE GARTRELL 8996	7. CAM SIGNATURE:	
8. ORIGINAL/ CHANGE SCOPE/ PER CP#:	9. CHARGE NUMBER: PCAA/PCAB/PCYB/PWVA/PVTS	

PART 2: PCAA/PCAB/PCYB/PWVA/PVTS/PCPA/PTSD - MISCELLANEOUS PROGRAMS

Section 1: Miscellaneous Programs

1.0 NARRATIVE

1.1 OVERVIEW

Miscellaneous programs of the Non-Defense Programs WBS element are programs intended to perform occasional or long term, minor tasks which are required by and directed by Non-Defense Programs. Current programs include Health Surveillance Activities, Cyber Security, support for the Fernald Citizens Advisory Board (FCAB), auditing other DOE facilities and developing special transfer system for material important to Non-Defense Programs. Other programs required by Non-Defense Programs in the future may be included within the Miscellaneous Programs scope.

1.2 ASSUMPTIONS/EXCLUSIONS

1.2.1 Assumptions

- No new requirements will be imposed by DOE without equitable adjustment.
- Slip in schedule may require additional personnel in out-years.

1.2.2 Exclusions

- All Defense Programs scope.

1.2.3 Government-Furnished Equipment/Services

None

1.3 DRIVERS

- Non-Defense Program scope drivers.

1.4 SCOPE OF WORK

1.4.1 Task #1 - PCAA – Health Surveillance Activities

1.4.1)1 Plan/Scope

The scope of work provided by **Health Surveillance Activities** in FY01 includes the following scope:

- Maintain dedicated staff to act as a data coordinator and point of contact on site for all Department of Energy Headquarters and Data Center queries.
- Generate quarterly rosters of all Fernald contractor workers containing the data identified in the **Roster of Current Work Force** provided to the site Occupational Medicine Department by Epidemiologic Surveillance Program staff. Transmit a copy of the roster to the designated Epidemiological Surveillance Data Center in machine-readable, electronic format no later than fifteenth day of the month.
- Continue to collect health events for all contractor workers each month involving:
 - OSHA recordable illnesses and injuries
 - Absences for illness or injury involving five or more consecutive workdays
 - Disability retirements
 - Death of an active employee
- Transmit these data to the Data Center or other recipient designated by the Epidemiological Surveillance Program staff by the fifteenth day of the following month. Include the information identified in the Health Data table provided by the Epidemiological Surveillance Program staff.
- By the fifteenth calendar day of each month, provide a summary of the past month's Epidemiological Surveillance expenditures to the Office of Epidemiology and Health Surveillance designated contact. In addition, provide a brief technical report that, at a minimum, reports the number of health events submitted to the Data Center and the date of their submission, identifies the date of transmission of quarterly update rosters as these are generated, and identifies any technical problems encountered or new developments pertaining to the capture and transmission of epidemiological surveillance data. The number of health events is also transmitted to the Data Collection Center.

- Transmit dosimetry data on all monitored workers annually to the Data Collection Center.

The plan for the Medical Surveillance program is to continue without modification throughout the Closure Contract.

1.4.1)2 Quantification

The quantification for the Medical Surveillance program is based on the Non-Defense Programs continuing need for information. The resource requirements summary for this scope is shown in the following table:

	FY01	FY02	FY03	FY04	FY05	FY06	FY07	FY08	FY09	FY10
Info Record Rep	1	1	1	1	1	1	1	1	1	.25
Total (FTE)	1	1	1	1	1	1	1	1	1	.25

1.4.2 Task #2 - PCYB – Cyber Security Fire Wall

1.4.2)1 Plan/Scope

The scope of work provided by Cyber Security Fire Wall in FY01 includes the following scope:

- Purchase and install an Intrusion Detection Server, equipment for Internet firewall infrastructure upgrades as well as equipment and licensing for the DOEnet firewall, and password validation software for cyber security enhancement of the Fernald Unclassified network. The activities shall include but are not limited to the following activities; Purchase and installation of network intrusion hardware and software; purchase and installation of firewall equipment (routers/network cards) and cabling; purchase and installation of password validation software on the site's domain controller; purchase license and equipment and installation of the DOEnet firewall between the DOEnet network and Fernald's internal network.

The plan for the Cyber Security program is to continue without modification throughout the Closure Contract.

1.4.2)2 Quantification

The quantification for the Cyber Security program is based on the Non-Defense Programs continuing need for cyber security. The resource requirements for this effort is determined on a case-by-case basis and approved by Non-Defense Programs.

1.4.3 Task #3 - PCAB/PWVA/PVTS – Other Miscellaneous Programs

1.4.3)1 Plan/Scope

The scope of work provided by Other Miscellaneous Programs in FY01 includes the following scope:

- Provide support for Non-Defense Programs requirements as specified in individual contracts. Support may include but is not limited to supporting the FCAB, doing audits of other sites, transferring material of importance to Non-Defense Programs and other projects when specifically contracted.

The plan for Other Miscellaneous Programs is to provide specific services and products as authorized and funded by Non-Defense Programs throughout the Closure Contract.

1.4.3)2 Quantification

The quantification for the above tasks is based on specified requirements of Non-Defense Programs. The resource requirements for this effort is determined on a case-by-case basis and approved by Non-Defense Programs.

~~1.4.4 Task #4 - PCPA - Energy Employees Occupational Illness Compensation Program Act (EEOICPA) Activities~~

~~1.4.4)1 Plan/Scope~~

~~The scope of work provided by EEICPA activities includes the following:~~

~~Locate, retrieve, and copy personnel, medical and other program records.~~

~~Other activities related to the verification of employment of former site workers for the retrieval of their medical records.~~

~~Coordinate and submit Department of Labor claims forms for former site workers.~~

~~Perform records declassification activities related to the declassification of claims forms.~~

~~Coordinate site claims processing activities with the District Worker Advisory Resource Center.~~

~~Provide information regarding EEICPA to Worker Advisory Resource Centers for the District Covered Facilities Unit.~~

Submit monthly reports to DOE Ohio Field Office and DOE-FEMF EEO/CPA Points of Contact regarding the expenditure of funds and work performed under this requirement.

4.4.2 Quantification

The quantification for the above tasks is based on specified requirements of Non-Defense Programs. The resource requirements for this effort is determined on a case-by-case basis and approved by Non-Defense Programs.

4.5 Task #6 - P/SD - Integrated Technology Suite Deployment at Oak Ridge
ORR01SS2

4.5.1 Plan/Scope

This control account establishes the transfer of scope from the Oak Ridge Reservation (ORR) to Fernald for the purpose of the Integrated Technology Suite (ITS) deployment at ORR. The deployment is being sponsored by the ORR Office of Science and Technology under the ORR Technical Task Plan (ITP) ORR01SS2-1. The ITS process has been deployed at the Fernald Site by the Soils and Disposal Facility/Real Time Instrumentation Measurement Program (SDFP/RTIMP). This account provides for the deployment of this ITS process at ORR, and includes the following scope:

Travel to ORR and deploy the Radiation Scanning System, the High Purity Germanium detector, and the mapping van to characterize a 6 acre area for gamma-discernable radiological contamination.

Provide analytical results and contamination identification maps to ORR personnel.

4.5.2 Quantification

The quantification for the above tasks is based on specified requirements of Non-Defense Programs. The resource requirements for this effort is determined on a case-by-case basis and approved by Non-Defense Programs.

SECTION 1

2.0 MANPOWER PLANS

SECTION 1

3.0 ESTIMATE

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SECTION 1

4.0 RISK PLAN

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**WBS DICTIONARY
CONTROL ACCOUNT/CHARGE NUMBER**

U.S. DEPARTMENT OF ENERGY
 WORK BREAKDOWN STRUCTURE DICTIONARY
 PART II - ELEMENT DEFINITION

1. PROJECT TITLE FEMP (NON-DEFENSE)	2. DATE OF CONTRACT 12/01/2000
3. IDENTIFICATION NUMBER DE-AC24-01OH20115	4. INDEX LINE NO. 80
5. WBS ELEMENT CODE 1.2.C	6. WBS ELEMENT TITLE SAFEGUARDS & SECURITY
7. APPROVED CP NO. NEW PER CP# FY01-0115-0000-00	8. DATE OF CHANGES 12/01/2000
9. SYSTEM DESIGN DESCRIPTION CERCLA/ACA	10. BUDGET AND REPORTING NUMBER Various
<p>11. ELEMENT TASK DESCRIPTION</p> <p><u>a. ELEMENTS OF COST:</u></p> <p>Labor Materials Subcontracts ODCs</p> <p><u>b. TECHNICAL CONTENT:</u></p> <p>Non-Defense Miscellaneous Projects consist of multiple programs. See scope of work below.</p> <p><u>c. SCOPE OF WORK:</u></p> <p>SAFEGUARDS AND SECURITY</p> <p>PROTECTIVE FORCES: Provide the FEMP with security management; access administration, security investigations, protective force and physical security.</p> <p>MC&A PROGRAMMATIC: Assists in planning and coordination for operations associated with the disposition of wastes at the FEMP. Provides historical information. Responsible for monthly reporting of nuclear material inventories which includes the waste holding accounts. Approves shipping documentation.</p> <p>CYBER SECURITY: Provide the FEMP with computer security.</p>	

**WORK SCOPE DEFINITION
(Control Account)**

1. PROJECT TITLE FEMP (NON-DEFENSE)		2. DATE 12/01/2000	Page 1
3. WBS ELEMENT CODE 1.2.C	4. WBS ELEMENT TITLE/NAME SAFEGUARDS & SECURITY		
5. PERFORMING DIV/DEPARTMENT CODE 41	6. ORIGINATOR NAME/PHONE GEORGE GARTRELL / 648-3996	7. WBS ELEMENT MANAGER GEORGE GARTRELL	
8. BUDGET AND REPORTING NUMBER VARIOUS	9. BUDGET TITLE VARIOUS B&R FOR NON-DEFENSE ONLY		
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE? NEW PER CP# FY01-0115-0000-00		11. ESTIMATED START / COMPLETION DATE 12/1/00 - 12/27/09	
12. TASK IDENTIFICATION (CONTROL ACCOUNT) PSEC	13. TASK DESCRIPTION (ONE LINE) SAFEGUARDS AND SECURITY		
14. ELEMENT TASK DESCRIPTION			
<p><u>a. ELEMENTS OF COST:</u></p> <p>Labor Subcontractors Materials ODCs</p> <p><u>b. TECHNICAL CONTENT:</u></p> <p>Security Department Management: Responsible for the development and implementation of departmental regulations and procedures and has ultimate responsibility for the safe, efficient operation of the Security department (S&SD), as well as the development and implementation of DOE and Fluor Fernald practices regarding security matters. Principle tasks include, but are not limited to, assessing, developing, review DOE directives; promulgating departmental procedures; identifying, reviewing, and implementing corrective action and compensatory security measures; determining and maintaining department staffing levels based on security requirements DOE, and Fluor Fernald services requirements.</p> <p>Access Administration consists of writing procedure and plas for Access Admininstration; acting as liaison with other departments concerning issues and problems; attend meetings and follow-up with action; creating and revising required forms; maintinaing the IPEX Security Computer System; coordinating site rebadging activities in accordance with applicable DOE Orders; assuming and performing the duties of the FEMP security manager in his absence; creating and maintaining four off-site badging stations.</p> <p>Computer Security and Criminal Investiagations maintains the continuing integrity of the information stored in Fluor Fernald Computer systems by instituting steps to prohibit unauthorized malicious or accidental changes, ensuring system remains available to authorized users, and conducting system</p>			
Project Manager <i>[Signature]</i>	Control Account Manager <i>[Signature]</i>	Control Team Manager <i>[Signature]</i>	

for George Gartrell

for George Gartrell

**WORK SCOPE DEFINITION
(Control Account)**

1. PROJECT TITLE FEMP (NON-DEFENSE)		2. DATE 12/01/2000	Page 2
3. WBS ELEMENT CODE 1.2.C	4. WBS ELEMENT TITLE/NAME SAFEGUARDS & SECURITY		
5. PERFORMING DIV/DEPARTMENT CODE 41	6. ORIGINATOR NAME/PHONE GEORGE GARTRELL / 648-3996	7. WBS ELEMENT MANAGER GEORGE GARTRELL	
8. BUDGET AND REPORTING NUMBER VARIOUS	9. BUDGET TITLE VARIOUS B&R FOR NON-DEFENSE ONLY		
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE? NEW PER CP# FY01-0115-0000-00		11. ESTIMATED START / COMPLETION DATE 12/1/00 - 12/27/09	
12. TASK IDENTIFICATION (CONTROL ACCOUNT) PSEC	13. TASK DESCRIPTION (ONE LINE) SAFEGUARDS AND SECURITY		

14. ELEMENT TASK DESCRIPTION

audits to ensure the system is not being used for unauthorized or unofficial work.

Physical Security (Locks and Keys and Facility Assessments) develops lock procedures, standards, applications, operations, testing, vulnerability, maintenance and repair. Physical Security is also responsible for conducting on-site/off-site facility security assessments and recommendation of physical security measures to reduce theft of government property.

The Protective Force consists of maintenance of an unarmed protective force to detect and deter industrial sabotage, theft and/or damage and/or misuse of government property and to assist other organizations charged with protecting the health and safety of employees and the public.

c. SCOPE OF WORK:

ACCESS ADMINISTRATION: Administering successful operation of Access Administration section by reviewing and updating manuals, procedures and validating compliance.

Providing initial customer satisfaction and a positive first impression of FEMP by providing friendly, courteous, efficient, helpful services to DOE, employees, subcontractors and visitors in the Access Administration badging office and by educating, responding to questions and providing a security overview presentation at New Employee Orientation. Also provides a receptionist at the Springdale office location for visitor welcome, temporary badging and other associated activities.

Representing Access Administration by attending meetings, training sessions and seminars; acting as liaison with other departments concerning issues and problems of special projects.

Coordinating personnel badging operations by establishing temporary badge filing and reconciliation system; overseeing the processing of new, extended and terminated personnel, (including visitors, tour groups, subcontractors,

**WORK SCOPE DEFINITION
(Control Account)**

1. PROJECT TITLE		2. DATE	
FEMP (NON-DEFENSE)		12/01/2000	Page 3
3. WBS ELEMENT CODE	4. WBS ELEMENT TITLE/NAME		
1.2.C	SAFEGUARDS & SECURITY		
5. PERFORMING DIV/DEPARTMENT CODE	6. ORIGINATOR NAME/PHONE	7. WBS ELEMENT MANAGER	
41	GEORGE GARTRELL / 648-3996	GEORGE GARTRELL	
8. BUDGET AND REPORTING NUMBER	9. BUDGET TITLE		
VARIOUS	VARIOUS B&R FOR NON-DEFENSE ONLY		
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE?		11. ESTIMATED START / COMPLETION DATE	
NEW PER CP# FY01-0115-0000-00		12/1/00 - 12/27/09	
12. TASK IDENTIFICATION (CONTROL ACCOUNT)	13. TASK DESCRIPTION (ONE LINE)		
PSEC	SAFEGUARDS AND SECURITY		
14. ELEMENT TASK DESCRIPTION			
<p>DOE-Fernald and Fluor Fernald employees.</p> <p>Process monthly subcontractor termination reports by generating and distributing reports and processing terminations/extensions as directed by site contracts.</p> <p>Act as Access Administration representative for Fluor Fernald Quality Assurance and DOE Audit Team by attending kick-off and close-out meeting; interviewing and providing necessary feedback and material as requested by auditor; review and comment on draft audit report and take necessary steps to close identified findings, if any.</p> <p>Developing a skilled, productive, informed and satisfied staff by supervising, directly and through delegation; conducting staff meetings; forwarding pertinent information; and addressing issues and concerns of staff or concerning staff.</p> <p>Maintaining an effective and user friendly security computer system by working with Information Systems personnel to develop IPEX II and future adaptations and enhancements; and interacting with system users to identify problems, modifications and suggestions.</p> <p>Maintaining the vehicle registration program.</p> <p>Coordinating the consolidation and centralization of the FEMP Access Administration function by:</p> <ol style="list-style-type: none"> a. Developing integrated work processes to identify and streamline the work. b. Designing physical layout of work stations (e.g. forms fits function). c. Identifying and document specific duties and responsibilities associated with each work station. d. Developing desktop procedures for each position. e. Identifying additional resource required, if any. f. Developing a schedule and time for cross-training of all personnel working in centralized access administration office. g. Badging all authorized site personnel. h. Implementing and off-site badging system for the Alpha Building by creating procedures, badges and logging system. i. Maintenance and repair of data card badging system. 			

**WORK SCOPE DEFINITION
(Control Account)**

1. PROJECT TITLE FEMP (NON-DEFENSE)		2. DATE 12/01/2000	Page 4
3. WBS ELEMENT CODE 1.2.C	4. WBS ELEMENT TITLE/NAME SAFEGUARDS & SECURITY		
5. PERFORMING DIV/DEPARTMENT CODE 41	6. ORIGINATOR NAME/PHONE GEORGE GARTRELL / 648-3996	7. WBS ELEMENT MANAGER GEORGE GARTRELL	
8. BUDGET AND REPORTING NUMBER VARIOUS	9. BUDGET TITLE VARIOUS B&R FOR NON-DEFENSE ONLY		
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE? NEW PER CP# FY01-0115-0000-00		11. ESTIMATED START / COMPLETION DATE 12/1/00 - 12/27/09	
12. TASK IDENTIFICATION (CONTROL ACCOUNT) PSEC	13. TASK DESCRIPTION (ONE LINE) SAFEGUARDS AND SECURITY		
14. ELEMENT TASK DESCRIPTION PHYSICAL SECURITY (LOCKS AND KEYS AND FACILITY ASSESSMENT): Provide emergency lock service by unlocking desks, etc., where key or lock is lost/broken and by opening offices, trailers, and cars. Provide routine lock/key services by providing record keying/documentation of key transfers, lock cylinder replacement master keying and custom keying of entire area of functional organizations. Provide access control service by maintaining or installing card system to control and document access to remote sites. Provide CCTV/Radio/UPS Services by specifying, purchasing, maintains their hardware system to enhance the mission of the Security department. Provide relief/coverage for any and all functions of personnel in the security development by being able to operate the Com Center; interact with ENC, telephone switch board and the security officers. COMPUTER SECURITY: Implement and administer a management control process appropriate to the environment of the site area wide network by Fluor Daniel Fernald's computer protection plan. Develop and implement procedures establishing controls designed to prevent misuse and abuse of site area wide network by computer security accountability policy. Develop and implement contingency plans for area wide network by planning resource needs to carry out the company's data processing functions. Develop and implement procedures for reporting significant computer security incidents by monitoring reportable incidents that are reportable to DOE and CICA. Develop and implement continuous computer security awareness by writing and distributing continuous notices, letter and training.			

**WORK SCOPE DEFINITION
(Control Account)**

1. PROJECT TITLE FEMP (NON-DEFENSE)		2. DATE 12/01/2000	Page 5
3. WBS ELEMENT CODE 1.2.C	4. WBS ELEMENT TITLE/NAME SAFEGUARDS & SECURITY		
5. PERFORMING DIV/DEPARTMENT CODE 41	6. ORIGINATOR NAME/PHONE GEORGE GARTRELL / 648-3996	7. WBS ELEMENT MANAGER GEORGE GARTRELL	
8. BUDGET AND REPORTING NUMBER VARIOUS	9. BUDGET TITLE VARIOUS B&R FOR NON-DEFENSE ONLY		
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE? NEW PER CP# FY01-0115-0000-00		11. ESTIMATED START / COMPLETION DATE 12/1/00 - 12/27/09	
12. TASK IDENTIFICATION (CONTROL ACCOUNT) PSEC	13. TASK DESCRIPTION (ONE LINE) SAFEGUARDS AND SECURITY		
14. ELEMENT TASK DESCRIPTION			
<p>Develop appropriate protection measures established for users granted access to sensitive unclassified information by having all users submit access requests to computers making sure access's are appropriate to security levels assigned each computer application.</p> <p>Develop compliance review and certification/recertification review for protective measures by reviewing events of sufficient magnitude to prevent normal ADP operation.</p> <p>Develop appropriate installation disaster recovery plans that are in accordance with DOE mission-essential applications by performing risk analysis studies in all new or significant change facility, hardware, and system hardware.</p> <p>Developing and implementing sound programs, plans, and practices that ensure the integrity of electronic data is maintained.</p> <p>CRIMINAL INVESTIGATIONS:</p> <p>Conduct investigations into theft of government property by reporting all thefts to DOE contact, IG contact, local authorities, conducting interviews, interrogations, and collecting evidence.</p> <p>Conduct investigations into sabotage of government property by reporting to DOE contact, IG contact, local authorities, conducting interviews, interrogations, and collecting evidence.</p> <p>PROTECTIVE FORCES:</p> <p>Ensuring that activities of security department follow written plans, orders, and directives that provide a high degree of likelihood that the department's mission will be accomplished in any situation that could reasonably be anticipated.</p> <p>Implementing access control measures to limit entry authorized vehicles, personnel and employing the use of physical and administrative barriers to deter unauthorized entry.</p>			

**WORK SCOPE DEFINITION
(Control Account)**

1. PROJECT TITLE FEMP (NON-DEFENSE)		2. DATE 12/01/2000	Page 6
3. WBS ELEMENT CODE 1.2.C	4. WBS ELEMENT TITLE/NAME SAFEGUARDS & SECURITY		
5. PERFORMING DIV/DEPARTMENT CODE 41	6. ORIGINATOR NAME/PHONE GEORGE GARTRELL / 648-3996	7. WBS ELEMENT MANAGER GEORGE GARTRELL	
8. BUDGET AND REPORTING NUMBER VARIOUS	9. BUDGET TITLE VARIOUS B&R FOR NON-DEFENSE ONLY		
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE? NEW PER CP# FY01-0115-0000-00		11. ESTIMATED START / COMPLETION DATE 12/1/00 - 12/27/09	
12. TASK IDENTIFICATION (CONTROL ACCOUNT) PSEC	13. TASK DESCRIPTION (ONE LINE) SAFEGUARDS AND SECURITY		

14. ELEMENT TASK DESCRIPTION

Developing and implementing security education and awareness programs to heighten employee awareness and vigilance to detect and report unauthorized entry and/or acts to deter the unauthorized removal of property.

Establishing, implementating, and conducting formal training for Security Officers specified in DOE Protective Forces.

Monitoring personnel and vehicles entering and exiting the site. Maintain the Site Access Control Facility, Kiosks, and perimeter equipment or facilities.

Verifying that personnel possess the required authorization when removing property from the site.

Investigating reported property loss or damage, and notifying DOE of any known loss, theft, or deliberate damage to property. Conduct computer security activities, investigate misuses and identify security improvements.

Conducting security self-assessments of FEMP on-site and off-site facilities to ensure the protection of personnel and property.

Provide traffic enforcement at the FEMP by patrolling internal and external roads (including parking lots) and issuing, when appropriate, citations for violation of the Ohio Vehicle Code an/or FEMP Traffic policy.

d. WORK SPECIFICALLY EXCLUDED:

Task specific training for RSO & CRU personnel in support of a remediation program. Expenses for this support are charged to remediation program.

Maintenance contract for the alarm system.

Funding associated with Nuclear Criticality Alarm System operations and maintenance.

WORK SCOPE DEFINITION
(Work Package)

1. PROJECT TITLE FEMP (NON-DEFENSE)	2. DATE 12/01/2000	Page 1
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3. WBS ELEMENT CODE 1.2.C	4. WBS ELEMENT TITLE/NAME SAFEGUARDS & SECURITY
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5. PERFORMING DIV/DEPARTMENT CODE 41	6. ORIGINATOR NAME/PHONE GREG BARR / 648-4100	7. WBS ELEMENT MANAGER GEORGE GARTRELL
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8. BUDGET AND REPORTING NUMBER VARIOUS	9. BUDGET TITLE VARIOUS B&R FOR NON-DEFENSE ONLY
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10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE? NEW PER CP# FY01-0115-0000-00	11. ESTIMATED START / COMPLETION DATE 12/01/00 - 12/27/09
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12. TASK IDENTIFICATION (WORK PACKAGE) PSEC1	13. TASK DESCRIPTION (ONE LINE) S&S PROTECTIVE FORCES
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14. ELEMENT TASK DESCRIPTION

a. ELEMENTS OF COST:

Labor
Subcontracts
Material
ODC

b. TECHNICAL CONTENT:

Security Department Management is responsible for the development and implementation of departmental regulations and procedures and has ultimate responsibility for the safe, efficient and effective operation of the Security Department (S&SD), as well as the development and implementation of DOE and Fluor Fernald practices regarding security matters. Principle tasks include, but are not limited to, assessing, developing, reviewing DOE directives; promulgating departmental procedures; identifying, reviewing, and implementing corrective action and compensatory security measures; determining and maintaining department staffing levels based on security requirements, DOE, and Fluor Fernald services requirements. Security management is also responsible for conducting on-site/off-site facility security assessments and recommendation of physical security measures to reduce theft of government property.

Access Administration consists of writing procedures and plans for site access requirements. Data input for the IPEX Security Computer System, coordinating site badging activities in accordance with applicable DOE Orders. Administer the Foreign National Visitor Program.

The Protective Force consists of maintenance of an unarmed protective force to detect and deter industrial sabotage, theft and/or damage and/or misuse of government property and to assist other organizations charged with protecting the health and safety of employees and the public.

Project Manager <i>George Barr</i>	Control Account Manager <i>S. Humphreys</i> for George Sartell	Control Team Manager <i>Linda Weste</i>
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WORK SCOPE DEFINITION
(Work Package)

1. PROJECT TITLE FEMP (NON-DEFENSE)		2. DATE 12/01/2000	Page 2
3. WBS ELEMENT CODE 1.2.C	4. WBS ELEMENT TITLE/NAME SAFEGUARDS & SECURITY		
5. PERFORMING DIV/DEPARTMENT CODE 41	6. ORIGINATOR NAME/PHONE GREG BARR / 648-4100	7. WBS ELEMENT MANAGER GEORGE GARTRELL	
8. BUDGET AND REPORTING NUMBER VARIOUS	9. BUDGET TITLE VARIOUS B&R FOR NON-DEFENSE ONLY		
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE? NEW PER CP# FY01-0115-0000-00		11. ESTIMATED START / COMPLETION DATE 12/01/00 - 12/27/09	
12. TASK IDENTIFICATION (WORK PACKAGE) PSEC1	13. TASK DESCRIPTION (ONE LINE) S&S PROTECTIVE FORCES		

14. ELEMENT TASK DESCRIPTION

c. SCOPE OF WORK:

SCOPE

ACCESS ADMINISTRATION: Administering successful operation of FEMP site Access by reviewing and updating manuals, procedures and validating compliance.

Provide permanent customer badge issue services to Fernald employees, subcontractors and visitors. Provide a site visitor orientation. Coordinate personnel badging operations by establishing temporary badge filing and reconciliation system; overseeing the processing of new, extended and terminated personnel (including visitors, tour groups, subcontractors, DOE-Fernald and Fluor Fernald Inc., and teaming partner employees. Process monthly subcontractor termination reports for timely extensions of site contractor access.

Administer the site Foreign National program by coordinating access control, badging and compliance with DOE Orders for proper approval to access the Fernald site.

Maintaining the vehicle registration program.

CRIMINAL INVESTIGATIONS:

Conduct investigations into theft or sabotage of government property by reporting all thefts or sabotage to DOE contact, IG contact, local authorities, conducting interviews, interrogations, and collecting evidence.

Perform pre-hire and background investigations for newly hired employees.

PROTECTIVE FORCES:

Ensure that activities of security department follow written plans, orders, and directives that provide a high degree of likelihood that the department's

WORK SCOPE DEFINITION
(Work Package)

1. PROJECT TITLE FEMP (NON-DEFENSE)		2. DATE 12/01/2000	Page 3
3. WBS ELEMENT CODE 1.2.C	4. WBS ELEMENT TITLE/NAME SAFEGUARDS & SECURITY		
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12. TASK IDENTIFICATION (WORK PACKAGE) PSEC1	13. TASK DESCRIPTION (ONE LINE) S&S PROTECTIVE FORCES		

14. ELEMENT TASK DESCRIPTION

mission will be accomplished in any situation that could reasonably be anticipated.

Implement access control measures to limit entry to only authorized vehicles and personnel, and employ the use of physical and administrative barriers to deter unauthorized entry.

Develop and implement security education and awareness programs to heighten employee awareness and vigilance to detect and report unauthorized entry and/or acts to deter the unauthorized removal of property.

Establish, implement, and conduct formal training for Security Officers as specified in DOE Protective Forces orders and procedures.

Monitor personnel and vehicles entering and exiting the site. Maintain the Site Access Control Facility, Kiosks, and perimeter equipment or facilities.

Verify that personnel possess the required authorization when removing property from the site.

Conduct security self-assessments of FEMP on-site and off-site facilities to ensure the protection of personnel and property.

Provide traffic enforcement at the FEMP by patrolling internal and external roads (including parking lots) and issuing, when appropriate citations for violation of the Ohio Vehicle Code and/or FEMP Traffic policy.

d. WORK SPECIFICALLY EXCLUDED:

Transportation Department has budgeted for vehicles and their maintenance.

- Maintenance Department has budgeted for fence repairs and any Project requiring additional fencing that the cost of the fencing is included in their budget.
- No dollars have been planned for new or additional Radios. Some discussions have occurred indicating that a different type of radio may be required at some

WORK SCOPE DEFINITION
(Work Package)

1. PROJECT TITLE FEMP (NON-DEFENSE)		2. DATE 12/01/2000	Page 4
3. WBS ELEMENT CODE 1.2.C	4. WBS ELEMENT TITLE/NAME SAFEGUARDS & SECURITY		
5. PERFORMING DIV/DEPARTMENT CODE 41	6. ORIGINATOR NAME/PHONE GREG BARR / 648-4100	7. WBS ELEMENT MANAGER GEORGE GARTRELL	
8. BUDGET AND REPORTING NUMBER VARIOUS	9. BUDGET TITLE VARIOUS B&R FOR NON-DEFENSE ONLY		
10. ORIGINAL SCOPE? / CHANGE TO WORK SCOPE? / NEW SCOPE? NEW PER CP# FY01-0115-0000-00		11. ESTIMATED START / COMPLETION DATE 12/01/00 - 12/27/09	
12. TASK IDENTIFICATION (WORK PACKAGE) PSEC1	13. TASK DESCRIPTION (ONE LINE) S&S PROTECTIVE FORCES		
14. ELEMENT TASK DESCRIPTION <p>later date.</p> <ul style="list-style-type: none"> - Scope of work covered in PSEC2, Materials Control and Accountability Programmatic and PSEC3, Computer Security. - Task specific training for personnel in support of a remediation program. Expenses for this support are charged to remediation program. - Maintenance contract for the alarm system. - Funding associated with Nuclear Criticality Alarm System operations and maintenance. 			

SECTION 1

1.0 NARRATIVE

1. PROJECT TITLE: NON-DEFENSE CLOSURE	2. DATE: 09/10/01	3. PBS#: N/A
4. WBS ELEMENT CODE: 1.2.C	5. WBS ELEMENT TITLE: SAFEGUARDS AND SECURITY	
6. CAM NAME/ PHONE: GEORGE GARTRELL/ 3996	7. CAM SIGNATURE:	
8. ORIGINAL/ CHANGE SCOPE/ PER CP#:	9. CHARGE NUMBER: PSEC1	

PART 3: PSEC - SAFEGUARDS AND SECURITY

Section 1: PSEC1 - Protective Forces

1.0 NARRATIVE

1.1 OVERVIEW

Security and Access Administration is responsible for providing an unarmed protective force and performing access administration activities in a safe, timely and cost effective manner; and for the management of all the associated functions, personnel, activities and equipment. The Protective Force is responsible for the detection and deterrence of the theft, misuse and/or the abuse of government equipment and property. The activities to achieve this include monitoring access points, random searches, traffic control, walking and driving patrols. Access Administration is responsible for the processing and maintaining the badging requirements of all personnel entering the site. Additional security related functions included in this charge code are computer security support activities, lock and key administration and incident investigative activities, clerical and administrative support. ~~This is a level of effort account, which is responsible for all cost not directly allocable to the projects.~~ Other safeguards and security activities are listed in Narratives for charge codes PSEC2 and PSEC3.

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1.2 ASSUMPTIONS/EXCLUSIONS

1.2.1 Assumptions

- Follow DOE Orders and contract deliverables as listed below (based on a graded approach) as they pertain to an unclassified site with an unarmed protective force.
- A minimum level of security will be needed throughout the term of the contract.
- ~~With the completion of shipping of Enriched Nuclear Material there is a possibility of reduced requirements concerning the protection of Special Nuclear Material.~~
- The closure contract tied into a reduction of personnel could lead to more work force violence. If this should be the case we may need to develop and implement different types of protection methods.

R1-D-744

- No new requirements imposed by DOE.
- Slip in schedule may require additional personnel in out-years.
- Work is based on a forty-hour week.
- The most current long term space plan will be in effect. This calls for certain buildings and off site office space to go away.
- The following DOE Orders, Agreements, Code of Federal Regulations and Federal Acquisition Regulations System requirements will be in force for the term of the project:

DOE Orders

-	DOE N 142.1	07/14/99	Unclassified Foreign Visits and Assignments
-	DOE N 205.1	07/26/99	Unclassified Cyber Security Program
-	DOE N 205.2	11/01/99	Foreign National Access to DOE Cyber Systems
-	DOE N 205.3	11/23/99	Password Generation, Protection, and Use
-	DOE N 251.37	09/01/00	Extension of DOE Notices on Security
-	DOE OH P 440.1-1	09/24/98	Preventing Acts of Aggression, Threatening Behavior and Violence in the Workplace
-	DOE O 440.1A	03/27/98	Worker Protection Management for DOE Federal And Contractor Employees
-	DOE O 470.1	09/28/95	Safeguards and Security Program
-	DOE O 470.2A	03/01/00	Security and Emergency Management Independent Oversight and Performance Assurance Program
-	DOE O 471.1A	06/30/00	Identification and Protection of Unclassified Controlled Nuclear Information
-	DOE O 471.1B	03/24/97	Personnel Security Activities
-	DOE O 473.2	06/30/00	Protective Force Program

- DOE O 473.4 05/26/00 Department of Energy Badges
- DOE O 551.1A 08/25/00 Official Foreign Travel
- DOE 5632.1C 07/15/94 Protection and Control of Safeguards and
Security Interests

Agreements

- International Guards Union of America (IGUA) and FDF dated 07/23/98.

Code Of Federal Regulations

- Part 1046.11a Physical Protection of Security Interests; Protective
Force Personnel
- Part 1046.13 Physical Protection of Security Interests; Medical
Certification
- Part 1046 App A Physical Protection of Security Interests; Medical and
Physical Fitness Qualifications and Standards,
paragraphs A, B1, B5, B6, B7, B8, B10, C, H, I, J
- Part 860 Trespassing on Administration Property
- Part 264.14 Identification and Protection of Unclassified Control
Nuclear Information

Federal Acquisition Regulations Title 48

- Part 970.2201 Application of Labor Policies; Basic Labor Polices
(Pre-Employment Investigations)

1.2.2 Exclusions

- Transportation Department has budgeted for vehicles and their maintenance.
- Maintenance Department has budgeted for fence repairs and any Project requiring additional fencing that the cost of the fencing is included in their budget.
- No dollars have been planned for new or additional Radios. Some discussions have occurred indicating that a different type of radio may be required at some later date.

- Scope of work covered in PSEC2, Materials Control and Accountability Programmatic and PSEC3, Computer Security.

1.2.3 Government-Furnished Equipment/Services

- DOE database for Foreign Nationals is maintained by DOE (FACTS System).

1.3 DRIVERS

- As long as the FEMP remains an active DOE facility some level of effort will be required from the Security Department in the areas of access control and property protection.

1.4 SCOPE OF WORK

1.4.1 Task #1 - Protective Forces

The scope of work provided by Protective Forces in FY01 provides coverage 24 hours per day, 7 days per week. This includes the following scope:

- Monitor Fence Line once per month (16 hours per month) and during routine patrols
- Attend security related training (180 hrs/yr)
- Participate in performance drills and exercises (360 hrs/yr)
- Staff access points (24,350 hrs/yr.)
- Traffic control (950 hrs/yr.)
- Conduct walking patrols (8,450 hrs/yr.)
- Perimeter patrols (8,450 hrs/yr.)
- Off-site building checks (1650 hrs/yr.)
- Vehicle and package searches (1250 hrs/yr.)
- Vehicle inspections (Hours included in perimeter patrols)
- Respond to emergency situations (hours included in other post assignments, respond from active post)

- Administrative and clerical functions which include issuing tickets, completing incident reports, required reading, complete logs, issue site badges after normal business hours, shift turnover briefings post relief's and paycheck distribution. (8,450 hrs/yr.)

Total Hours 54,090 = 30.9 FTE

1.4.2 Task #2 - Access Administration

The scope of work provided by Access Administration in FY01 includes the following scope:

- Badge issuance (Visitor, Vendor, Temporary, Subs and lost badges) approximately 6,000 /yr. (1150 hrs/yr.)
- Administrative and Clerical processing to support foreign national visits and assignments (440 hrs/yr.)
- Process groups tours, special events and meetings i.e. Take your kids to work, Public meeting and tours, Hoxworth etc. (280 hrs/yr.)
- Process new employees, subcontractors, terminations and extensions including badge return validation (950 hrs/yr.)
- Off-site monthly badge reconciliation and accountability which include visits to Record Center, Springdale, Uno/Dos and North star to conduct log and record reconciliation, badge preparation and resolving issues and special request (220 hrs/yr.)
- Maintain all necessary supplies for on and off-site badging activities including badges paper and plastic, plastic holder, neck chains, clips, badging computer color transfers and other associated supplies. (120 hrs/yr.)
- Administrative and clerical activities including maintaining procedures and off-site operator aids, maintain security data base, reports, filing, archiving records, coordination with HR, Medical, Training and others and meetings (850 hrs/yr.)
- Customer service activities responding to requests and assisting individuals wanting access to the site or other facilities including credit union, potential visitors and vendors, processing DOE badges as necessary (750 hrs/yr.)
- Provide refresher training to security officers and personnel performing badging functions after hours and at off-site locations. (200 hrs/yr.)

- Other related level of effort activities (200 hr/yr.)

Total hours 5,160 = 2.95 FTE

1.4.3 Task #3 - Security Investigations

The scope of work provided by Security Investigations in FY01 includes the following scope:

- Conduct investigations requested by HR, IR, Legal, DOE, IG, etc. coordinate and communicate all activities with necessary personnel and report findings. These investigations include fraud, waste, abuse, background checks and others. Involve local authorities as necessary. (1150 hrs/yr.)
- Oversee computer security and become involved in investigations as necessary. (150 hrs/yr.)
- Conduct portions of the Security officers training (80 hrs/yr.)
- Administrative and clerical functions related to Security including coordinating activities with other organizations, assisting with security supervision as necessary with drills and/or in the absence of manager or supervisor, reports, maintaining records, training, meetings and other related functions (280 hrs/yr.)

Total Hours 1840 = 1.05 FTE

1.4.4 Task #4 - Lock and Key

- Credit card purchases for the security department (400 hrs/yr.)
- Maintain the controlled keys and process miscellaneous key requests (650 hrs/yr.)
- Maintain card key program by working with the off-site facility owners, trouble shooting system and coordinating efforts with contractor for needed repairs and updates, travel between 7 locations (450 hrs/yr.)
- Administrative and clerical functions related to Lock and Key program including maintaining inventories of needed supplies, coordinating activities with maintenance shop as needed, reports, maintaining records, training, meetings and other related functions (220 hrs/yr.)

Total Hours 1720 = .98 FTE

1.4.5 Task #5 - Security Management/Supervision/Clerical Support

- Schedule protective force personnel and issue associated documentation which includes search schedules, daily rosters, special instructions etc. (2080 hrs/yr)
- Administrative and clerical functions related to Security and the protective force including coordinating activities with other organizations, scheduling and conducting necessary drills, prepare reports, maintaining records, training, meetings and other related functions (1,150 hrs/yr.)
- Provide clerical support for security department (1,800 hrs/yr.)
- Provide management direction and supervision for union personnel and salary staff. Interface with management and client on security issues and concerns. (1800 hrs/yr.)
- Provide management direction and supervision for union personnel during off-shift operations. Interface with management and client on security issues and concerns. (1800 hrs/yr.)

Total Hours 8,630 = 4.93 FTE

1.4.6 Plan/Scope

The plan for performing the scope for the above tasks is to continue the above services until services are modified as follows:

- From 2002 to 2003
 - Shipments of Enriched Nuclear Materials are scheduled to be completed.
 - Waivers will be requested to reduce the security presence on site to basic Industrial Security base upon the absence of Special Nuclear Materials and being an environmental restoration facility.
 - Reconfigure site access points to better utilize current personnel. Move post 1 and 2 farther out on the access roads and eliminate up to 4 auxiliary posts. This action will reduce the amount of planned overtime by approximately 25 hours per week. Maintain current workforce without back filling recent vacancies. Additionally establish a new security posture for out year reductions.
- From 2003 to 2004
 - Contract with IGUA expires.

- Combine Security, MC&A, Emergency Services (Emergency Preparedness, Fire Safety, Com Center) into one organization better utilizing management and personnel. Tasks will be combined to better utilize the time and talents of personnel. These decisions will be made closer to the time of combination. This re-organization will not only look at the above organizations, but will also look to see if some tasks should move to the projects. This is not included in the current manpower planning scenario.
- Continue to seek waivers from DOE and explore equipment to reduce the amount of required manpower.
- Site population starts to decrease reducing security demands
- From 2004 to 2010
 - East access road (Rte 126) is scheduled to be closed reducing one access point.
 - Continue to seek waivers from DOE and explore equipment to reduce the amount of required manpower.
 - Reduction of site personnel lessens the demands on all security functions.
- The reduction of manpower requirements is a direct correlation to site population. This decrease will reduce level of effort required to monitor fraud and abuse and other security related issues.

1.4.7 Quantification

R1-D-
887

The quantification for the above tasks is based indirectly on the Fluor Fernald, Inc. project and subcontract manpower. ~~upon the security needs of the site.~~ The resource requirements for this and the correlation with site manpower is shown in the following table:

SECURITY AND ACCESS ADMINISTRATION

R1-D-002

R1-D-523

	FY01	FY02	FY03	FY04	FY05	FY06	FY07	FY08	FY09	FY10
Site Population (FTE)	1940	1432	1389	1133	1470	1179	814	427	239	98
Total(FTE) *	37	36	36	36	36	36	36	36	36	0
Manager	0	0	0	0	0	0	0	0	0	0
Security Rep	6	6	6	6	6	6	6	6	6	0
Security Officer	26	26	26	26	26	26	26	26	26	0
Clerks	4	4	4	4	4	4	4	4	4	0
Admin Mgr	1	0	0	0	0	0	0	0	0	0
Subcontracts	37,997	37,996	37,996	37,996	37,996	37,996	37,996	37,996	37,996	8,874
Material	41,905	43,595	46,764	41,219	41,905	35,256	32,927	30,539	20,779	4,355
Sales Tax	2,514	2,616	2,806	2,473	2,514	2,115	1,976	1,832	1,247	261
ODCs	12,872	12,869	12,869	12,869	12,869	12,869	12,869	12,867	12,867	3,216

* FTEs are provided for 4th quarter of each FY.

SECTION 1

2.0 MANPOWER PLANS

SECTION 1

3.0 ESTIMATE

