

**Project Operating Plan – [Energy Technology Engineering Center (ETEC)
Recovery Act Project – Radiological Characterization Survey by EPA]**

**ETEC – Acceleration of Site Clean-up
(Radiological Characterization Survey by EPA)
Project Operating Plan**

BACKGROUND

Recovery Act Project: ETEC – Acceleration of Site Cleanup -
Radiological Characterization Survey by EPA
TAFS: 89-09/10-0335
Project Identification Code: 2002020
Recovery Act Bill Reference: PL 111-5 Title IV – Energy and Water
Development, Non-Defense Environmental Clean-
Up (H.R. 1-25)
Project Cost: \$38,300,000
Budget Authority: 05949, FE.01.11.00.0 - \$38,300,000
Program Office: Environmental Management (EM)
Recovery Program Plan: EM - Non-Defense
Management Office: Small Sites Office – Oakland Projects Office
ETEC Federal Project Director – Thomas Johnson
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LEADS

Implementation: Small Sites/ Oakland Projects Office
Breakthrough: N/A
Laboratory: N/A

I. SUMMARY & OBJECTIVES

Summary: The FY2008 DOE Appropriations law (H.R. 2764) directed the Department of Energy (DOE) to use a portion of DOE funding for the Santa Susana Field Lab (SSFL) site to enter into an interagency agreement (IAG) with the Environmental Protection Agency (EPA) to conduct a joint comprehensive radioactive site characterization of Area IV of the SSFL (approx. 290 acres) in accordance with the Comprehensive, Environmental, Response, Compensation and Liability Act (CERCLA). The IAG stipulates that EPA would perform the survey and DOE would fund it. This Recovery Act project and funding provides the resources for the EPA to complete this required characterization survey. When the survey is completed, DOE can then complete the Environmental Impact Statement for Remediation of Area IV of the Santa Susana Field Laboratory. Completion of the EIS allows for the remaining facilities to be demolished and soil and groundwater clean-up to be completed. Project completion will eliminate approximately 88,000 sq ft of abandoned buildings and allow the site (approximately 90 acres) to be returned to Boeing.

Having EPA conduct the assessment has strong CA congressional delegation and stakeholder support. It forms the basis for determination of the remaining extent of radiological contamination at the site. The project fulfills the Government's responsibility

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to address nuclear weapons waste and allows earlier completion of legal compliance agreement milestones.

The following DOE and EM Strategic Goals tie to this Recovery Act Project:

DOE Strategic Goal 4 – Environmental Responsibility – Protecting the environment by providing a responsible resolution to the environmental legacy of nuclear weapons production.

DOE Strategic Goal 5 – Management and Excellence – Enabling the Department’s mission through sound management and business practices.

EM Goals – To safely disposition large volumes of nuclear waste; safeguard materials that could be used in nuclear weapons; deactivate and decommission thousands of contaminated facilities no longer needed by the Department to carry on its current mission; EM is fulfilling its commitments to reduce overall risk and complete cleanup across all sites for generations to come.

Public Benefits: Many non-federal jobs will be created and/or retained by implementing this project. Onsite workers would include laborers, equipment operators, engineers, field technicians, and administrative support. Offsite workers would include lab technicians and administrative support.

This action will fulfill the Congressional mandate and provide assurance that all aspects of radiological contamination on the site have been identified and will be addressed. It will help allow the site to proceed with environmental clean-up and closure.

Recovery Act Project Impacts: Investment of recovery act funds in the congressionally mandated radiological characterization survey will allow for completion of the EIS which will allow the remaining facilities to be demolished and site soil and groundwater clean-up to be completed. These actions will eventually lead to a reduction in the agency’s environmental impact.

II. COST & SCHEDULE

Budget

Table 1a: Budget Implementation 12 Week Obligations (\$M) [ENTER INTO SHAREPOINT DIRECTLY]

	Week of ARRA Activities (Beginning Week of March 9)											
	1	2	3	4	5	6	7	8	9	10	11	12
ETEC – Acceleration of Site Clean-up (Rad. Char. Survey)												

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Table 1b: Budget Implementation 12 Week Expenditures (\$M) [ENTER INTO SHAREPOINT DIRECTLY]

	Week of ARRA Activities (Beginning Week of March 9)											
	1	2	3	4	5	6	7	8	9	10	11	12
Acceleration of Site Clean-up (Rad. Char. Survey)												

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Table 2a: Budget Implementation Monthly & Yearly Obligations (\$M) [ENTER INTO SHAREPOINT DIRECTLY]

	FY 2009 Q3			FY 2009 Q4			FY 2010 Q1		
	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec
Acceleration of Site Clean-up (Rad. Char. Survey)									
	FY 2010 Q2			FY 2010 Q3			FY 2010 Q4		
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept
	FY 2011 Q1			FY 2011 Q2			FY 2011 Q3 & Q4		
	Oct	Nov	Dec	Jan	Feb	Mar	Apr – Sept		
	FY 2010			FY 2013			FY 2014		FY 2015

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Table 2b: Budget Implementation Monthly & Yearly Expenditures (\$M) [ENTER INTO SHAREPOINT DIRECTLY]

	FY 2009 Q3			FY 2009 Q4			FY 2010 Q1		
	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec
Acceleration of Site Clean-up (Rad. Char. Survey)									
	FY 2010 Q2			FY 2010 Q3			FY 2010 Q4		
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept
	FY 2011 Q1			FY 2011 Q2			FY 2011 Q3 & Q4		
	Oct	Nov	Dec	Jan	Feb	Mar	Apr – Sept		
	FY 2012			FY 2013			FY 2014		FY 2015

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data submitted electronically via the Recovery Data Collection site is comprehensive, accurate, and up to date.

NOTES: These funds will be provided to EPA. To date, only conceptual estimates have been developed.

Funds Returned and Offsetting Collections

No funds will be returned or have offsetting collections.

Table 3: Funds Returned and Offsetting Collections (\$M)[ENTER INTO SHAREPOINT DIRECTLY]

	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14	FY 15
N/A							

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Indirect Costs

There are no indirect costs (M&O) associated with this scope of work to be paid by Recovery Act funds.

Changes to Baseline Budget

Table 4: Changes to Baseline Budgets (\$M) [ENTER INTO SHAREPOINT DIRECTLY]

Changes to Baseline Budget	Increase/Decrease	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14	FY 15
Fund EPA for Rad. Char. Survey	Decrease							

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NOTES: A baseline change proposal was submitted to add the radiological characterization survey by EPA scope, schedule, and cost to the project baseline. Doing this work with Recovery Act funds will reduce the baseline proposed in the BCP by the amount shown in Table 4 and accelerate completion of the survey from FY12 to FY11.

Milestones

See following table of Weekly/Monthly Milestones. The milestones are based on the best available information at this time.

Weekly/Monthly Milestones	Date
DOE modify existing IAG to add reporting requirements and funding	3/6/2009
EPA begin review of modified IAG	3/13/2009
EPA complete review of IAG	3/20/2009
DOE negotiate and revise IAG - Award modification	3/27/2009

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Weekly/Monthly Milestones	Date
EPA Begin to Identify Staff and Mobilize	
Continue Identify Staff and Mobilize	4/3/2009
Continue Identify Staff and Mobilize	4/10/2009
Continue Identify Staff and Mobilize	4/17/2009
Continue Identify Staff and Mobilize	4/24/2009
EPA Provide DOE with their Detailed Approach to Reporting	
EPA to finalize procurement strategy	5/1/2009
EPA to begin procurement of contractor	
DOE Review and Comment on Reporting	
EPA and DOE Agree on Reporting Approach	5/8/2009
Continue EPA procurement of contractor	May-09
EPA hire contractor for Gamma Scan Survey	June-09
Start Gamma Scan Survey	
Start Area IV/Buffer Zone Historical Site Assessment	
Contractor complete HASP	Jul-09
EPA finalization of gamma scan survey work plan	Aug-09
Start Phase I gamma scan survey	
Continue Phase I gamma scan survey	Sept-09
Continue Phase I gamma scan survey	Oct-09
Continue Phase I gamma scan survey	Nov-09
Complete Phase I gamma scan survey	Dec-09
Continue Area IV/ Buffer Zone Historical Site Assessment	Jan-10
Continue - Validate MARSSIM Approach being used and Scope of Contractor Work	Feb-10
Start Area IV/Buffer Zone Work Plan	
Continue - Determine Need for Scoping Survey	
EPA continue preparation Area IV/ Buffer Zone Work Plan	Mar-10
Start Area IV/Buffer Zone Scoping Survey	Apr-10
Complete - Evaluation of Background Data and Report	May-10
Complete Area IV/Buffer Zone Historical Site Assessment	
Continue - Verify/Assess Initial Class Designations	
Continue - Contractor Develop Quality Assurance Project Plan	June-10
Continue - Contractor Develop Field Sampling Plan	
Complete Area IV/Buffer Zone Scoping Survey	
Continue Stakeholder review of Area IV/ Buffer Zone work plan	Jul-10
Start revision of Area IV/ Buffer Zone work plan	Aug-10
Complete Area IV/Buffer Zone Work Plan	Sept-10
<i>Begin</i> Performing 1st third of Surface/Subsurface Sampling at Area IV/ Buffer Zone	
<i>Begin</i> Performing Data Validation	Oct-10
Complete Gamma Scan Survey	
Complete 1st third of Surface/Subsurface Sampling at Area IV/ Buffer Zone	Nov-10
<i>Begin</i> Performing 2nd third of Surface/Subsurface Sampling at Area IV/ Buffer Zone	
Start Area IV/Buffer Zone Data Evaluation & Report	
Perform 2nd third of Surface/Subsurface Sampling at Area IV/ Buffer Zone	Dec-10
Complete Phase I groundwater/ surface water sampling	Jan-11
Complete 2nd third of Surface/Subsurface Sampling at Area IV	Feb-11
Complete 2nd third of Surface/Subsurface Sampling at Buffer Zone	
<i>Begin</i> Performing 3rd third of Surface/Subsurface Sampling at Area IV/ Buffer Zone	

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Weekly/Monthly Milestones	Date
Start Phase II groundwater / surface water sampling.	Mar-11
Continue Phase II groundwater / surface water sampling.	Apr-11
Continue - 3rd third of Surface/Subsurface Sampling at Area IV/Buffer Zone	May-11
Complete Area IV/Buffer Zone Rad. Char. Survey	June-11
Continue - Data Validation	
Continue - Evaluation of Data and draft Report	Jul-11
Begin Stakeholder review of draft report	
Complete Stakeholder review of draft report	Aug-11
Complete Area IV/Buffer Zone Data Evaluation & Report	Sept-11

Recovery Act projects that are Capital Asset Projects, should report the additional planned major milestones in Table 5.

Table 5: Delivery Schedule for Capital Asset Projects [ENTER INTO SHAREPOINT DIRECTLY] N/A (until OECM and EM agree on 413.3A graded approach)

Program/OECM Milestone	Delivery (End) Date	Comments
Develop capital asset projects Integrated Project List		N/A
Develop Parametric Performance Baseline (Individual Projects)		N/A
If < \$100 M Perform IPR, > \$100 M Perform EIR (Individual Projects)		N/A
Approve Performance Baseline		N/A
Approve Start of Construction		N/A
Approve Project Completion		N/A

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NOTES: This scope is being managed by another federal agency (EPA) and not DOE-EM so DOE will not control the work. The current conceptual design phase cost and schedule is considered reasonable however this site has extensive stakeholder involvement that could potentially add schedule risk. If the radiological characterization survey is delayed, then this would delay completion of the EIS which in turn would delay the facility D&D and closure of the site.

III. PERFORMANCE

Performance Measures

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Table 6: Project Performance Targets **[ENTER INTO SHAREPOINT]**

Recovery Act Project Identification Code	2002020
Linkage To S-1 Priorities	National Security and Legacy – This survey is congressionally mandated and is necessary to complete the EIS which is necessary to complete legacy clean-up and closure of the site.
Linkage to Current Program Goal (if applicable)	DOE Strategic Goal 4 – Environmental Responsibility – Protecting the environment by providing a responsible resolution to the environmental legacy of nuclear weapons production. EM Strategic Goals – To safely disposition large volumes of nuclear waste; safeguard materials that could be used in nuclear weapons; deactivate and decommission thousands of contaminated facilities no longer needed by the Department to carry on its current mission; EM is fulfilling its commitments to reduce overall risk and complete cleanup across all sites for generations to This Recovery Act project will allow for the site’s EIS to be completed which will eventually lead to the completion of facility decommissioning and soil and groundwater cleanups.
Two-Year Outcome-Oriented Performance Measure	By the end of fiscal year 2011 – The congressionally mandated radiological characterization survey by the EPA will be completed.
First Year Performance Target	Accomplishments for FY2009
Q3 – Project-Level Quarterly Performance Milestone(s)	DOE and EPA agree on reporting requirements and approach.
Q4 – Project-Level Quarterly Performance Milestone(s)	EPA Contractor completes the Historical Site Assessment Plan
Second Year Performance Target	Accomplishments for FY2010
Q1 - Project-Level Quarterly Performance Milestone(s)	Complete Phase I Gamma Scan
Q2 - Project-Level Quarterly	Validation and acceptance of Multi-Agency

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Performance Milestone(s)	Radiation Survey and Site Investigation Manual plan.
Q3 - Project-Level Quarterly Performance Milestone(s)	Complete Historical Site Assessment
Q4 - Project-Level Quarterly Performance Milestone(s)	Stakeholder Review of Rad. Char. Work-plan
Third Year Performance Target	Accomplishments for FY2011
Q1 - Project-Level Quarterly Performance Milestone(s)	Complete 1 st portion of Surface/Subsurface Sampling
Q2 - Project-Level Quarterly Performance Milestone(s)	Complete 2nd portion of Surface/Subsurface Sampling
Q3 - Project-Level Quarterly Performance Milestone(s)	Complete 3 rd and final portion of Surface/Subsurface Sampling
Q4 - Project-Level Quarterly Performance Milestone(s)	Complete Rad. Survey Report

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NOTE: Performance of the Rad. Char. Survey which was a congressional mandate will allow for the EIS to be completed which in turn will allow completion of D&D and RCRA clean-up. This will allow for DOE-EM to proceed and complete the cleanup for this site.

National Strategic Benefits

Table 7: National Strategic Benefits [ENTER INTO SHAREPOINT DIRECTLY]

1. Carbon Emission Reductions: N/A
2. Oil Consumption Reductions: N/A

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NOTES: The same amount of work (and associated carbon emissions and oil consumption) will be done with the Recovery Act funds as was originally planned. Therefore there is no change in mass emissions or consumption attributable to this project.

IV. MANAGEMENT

Secretarial-level Items

Intended Results and Linkage to Secretary’s Priorities

Table 8: Secretary's Priorities [ENTER INTO SHAREPOINT DIRECTLY]

Secretary’s Priorities	Project Impacts (Qualitative)	Project Impacts (Quantitative)
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Science and Discovery		
Clean, Secure Energy		
Economic Prosperity	Creation and/or retention of jobs	Create temporary jobs during survey. Information from this survey will be used to complete the site's EIS which is necessary to allow for project completion.
National Security and Legacy	Complete congressionally mandated rad. char. survey to satisfy stakeholder issues. Provides additional characterization of site. Allows for project to continue to site closure and building footprint reduction.	Project completion will eliminate approximately 88,000 sq ft of abandoned buildings and allow the site (approximately 90 acres) to be returned to Boeing.
Climate Change		

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Collaboration and Coordination

- o The FY2008 DOE Appropriations language mandated that DOE and EPA prepare a radiological characterization survey for SSFL Area IV. As such, DOE and EPA have an interagency agreement where EPA would perform this survey and DOE would fund it. Also DOE will continue to work with the stakeholders, congressional delegations, regulators, state, and public during the performance of this work.

Federal Infrastructure Investments

There are no infrastructure investment project activities associated with this Recovery Act Project.

However, ancillary benefits may eventually be achieved through the elimination of facilities resulting in reduced electrical power consumption and corresponding reduction of greenhouse gas emissions. Reuse/Recycle of excess materials could result in reduced consumption in fossil fuels required to process raw materials.

These facilities contain hazardous or radiological material. Accelerating the removal and proper disposal reduces risk of releases of this material to the environment

Line Management

The existing project controls process (DOE O413.3-A) will be used to manage, oversee and report on the project. DOE will work with EPA to ensure appropriate project controls

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are in place for DOE to meet reporting requirements. This ARRA project will be tracked and reported independently from the ETEC base program.

Needs from Staff Offices

1) Human Capital

Table 9: Information on Hiring Under the Recovery Act [ENTER INTO SHAREPOINT DIRECTLY]

# & Type of Positions (Title, Series and Grade)	Location (HQ or Field – w/location)	Federal or Contractor	Timeframe (1-6mos; 6+mos; other; specify date needed if possible)
N/A			

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Note: No additional Federal staff positions are anticipated to be needed for this project. There is no use of temporary and TERM appointments, details from other Federal agencies, M&O contractors, use of IPA assignments from state/local governments and laboratories, student hires, excepted service (EJ) authority, SES limited TERM, non-competitive authorities anticipated to be needed for this project. DOE Oakland Projects Office will use support from the Consolidated Business Center and/or support service contractors to provide limited augmentation to the local federal staff.

