

Project Operating Plan – SLAC – Acceleration of Site Cleanup

SLAC - Acceleration of Site Cleanup Project Operating Plan

BACKGROUND

Recovery Act Project: Stanford Linear Accelerator Center (SLAC) -
Acceleration of Site Cleanup

TAFS: 89-09/10-0335

Project Identification Code: 2002240

Recovery Act Bill Reference: PL111-5 Title IV- Energy and Water Development,
Non-Defense Environmental Cleanup (H.R. 1-25)

Project Cost: \$7,925,000

Budget Authority: 05949, FE.01.17.00.0 - \$7,925,000

Program Office: Environmental Management (EM)

Recovery Program Plan: EM - Non-Defense

Management Office: Office of Environmental Management,
Headquarters Office of Small Sites,
Mike.Moore@hq.doe.gov, 202-586-0712
SLAC – Federal Project Director Kevin Bazzell,
650-926-2513, kevin.bazzell@emcbc.doe.gov

LEADS

Implementation: N/A

Breakthrough: N/A

Laboratory: N/A

I. SUMMARY & OBJECTIVES

Summary: The Environmental Management Program presently has the responsibility to cleanup the accessible legacy contamination at the SLAC National Accelerator Laboratory located at Stanford University (SU) in Menlo Park, California. This will allow DOE to meet ongoing obligations as defined in the DOE lease agreement with SU, comply with the California Regional Water Quality Control Board site cleanup requirement Order and achieve project completion. This Recovery Act project will accelerate the completion of this cleanup by one year with an estimated savings of approximately two million dollars.

The SLAC Recovery work scope includes the implementation of necessary long-term groundwater remediation remedies once the Groundwater VOC Operable Unit Feasibility Study and Remedial Action Plan get approved; the development of the West SLAC Campus Area/IR-8 Operable Unit Feasibility Study and Remedial Action Plan; all remaining soil excavation (approximately 12,000 banked cubic yards), transportation, disposal, clean up confirmation sampling and restoration activities associated with the Boneyard, Casting Pad/Bldg 18, Lower Salvage Yard, Clean Landfill and the Klystron Gallery Variable Voltage Substation sites; the associated project management and other general and administrative costs; and a revised strategy to help streamline the

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development, review and approval process of regulatory documents. None of the waste products are radioactive and all will be disposed of in appropriately licensed landfills.

This Recovery Act work ties to the following DOE and EM Strategic Goals and Themes:

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 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 come.

Public Benefits: An accelerated completion of the project is expected to create new and/or retain jobs and reduce the overall project costs by an estimated two million dollars.

Recovery Act Project Impacts: This work will include acceleration of groundwater remediation remedies at two different waste sites and will accelerate the excavation, transportation and disposal of contaminated soil at five or more sites (approximately 10 acres overall).

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	
SLAC Acceleration of Site Cleanup													

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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	
SLAC													

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

SLAC Acceleration of Site Cleanup	FY 2009 Q3			FY 2009 Q4			FY 2010 Q1		
	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec
	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]

SLAC Acceleration of Site Cleanup	FY 2009 Q3			FY 2009 Q4			FY 2010 Q1		
	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec
	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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NOTES:

Funds Returned and Offsetting Collections – None

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
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Indirect Costs

There is no planned Recovery Act indirect cost (M&O) anticipated at this time.

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
Project Acceleration	Decrease							

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NOTES: Changes to the baseline depicted in Table 4 include funding for a pending proposal to use \$4.9M of unfunded contingency. Additionally, the FY 09 through FY 11 baseline budget reductions reflect the budget being transferred from Base to Recovery. To be successful in the overall goal of accelerating project completion from FY 2012 to FY 2011, we are assuming the additional risks associated with a streamlined strategy for the development of regulatory required documents. If unsuccessful with this strategy, the critical path could slip into FY 2012 with a resulting reduction in the overall stated estimated savings.

Milestones

Weekly/Monthly Milestones	
Complete preparation of Unpriced ID/IQ Task Order modification	3/6/2009
Acceptance of Unpriced ID/IQ Task Order Modification	3/13/2009
Deliver CPE staffing plan to DOE for GW/VOC Treatment System and West SLAC Removal Actions	3/20/2009
Deliver CPE subcontracting plan for GW/VOC Treatment system design/installation	3/27/2009
Conduct Stimulus Plan Kickoff Meeting with Project Stakeholders	4/3/2009
CPE conduct recruiting job fair, interviews, and make offers	4/10/2009
Award subcontract for Design of GW/VOC Treatment Systems	4/17/2009
Complete OSHA training, CPE required training and badging for new hires and subcontractors.	4/24/2009
Conduct additional interviews for staff needs, and skills mix	5/1/2009

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Conduct Readiness Assessment and Safety Evaluation	5/8/2009
Complete West SLAC Waste Characterization Sampling	M-09
Commence West SLAC OU Remedial Investigation Field Work	J-09
Complete GW/VOC OU Soil Removal and Restoration	J-09
Deliver West SLAC Group 3 Sites Work Plan to DOE	A-09
Complete GW/VOC OU PSA System Design	S-09
Complete GW/VOC OU Remedial Design Report	O-09
Begin GW/VOC OU PSA System Construction	N-09
Complete GW/VOC OU TL/CL System Design	D-09
Commence West SLAC Clean Landfill Excavation, Transportation & Disposal	J-10
Commence GW/VOC OU TL/CL System Construction	F-10
Submit RY/IR-6 Channel Work Plan to DOE	M-10
Complete GW/VOC OU TL/CL System Construction	A-10
Turnover GW/VOC OU PSA System to M&O	M-10
Complete West SLAC Remedial Investigation Field Work	J-10
Prepare West SLAC OU Remedial Investigation/Risk Assessment Reports for Submittal to Regulator	J-10
Turnover GW/VOC OU TL/CL System to M&O	A-10
Commence RY/IR-6 OU Remedial Investigation Field Work	S-10
Complete RY/IR-6 OU Remedial Investigation Field Work	O-10
Complete West SLAC OU Removal Action Implementation Report	N-10
Submit West SLAC Remedial Action Plan to Regulator	D-10
Submit RY-IR-6 OU Completion Report to DOE	J-11
Complete West SLAC OU Remedial Action Plan	F-11
Complete GW/VOC OU Implementation Report	M-11
Complete RY/IR-6 OU Remedial Action Completion Report	A-11
Complete GW/VOC OU Risk Management Plan	M-11
Complete West SLAC OU Risk Management Plan	J-11
ID/IQ task order deliverables accepted, contract demobilized	J-11
DOE-SC Accepts SLAC LTRA Responsibility	A-11
DOE EM, SC & OECM Review & Approve CD-4	S-11

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

Program/OECM Milestone	Delivery (End) Date	Comments
Develop capital asset projects Integrated Project List		
Develop Parametric Performance Baseline (Individual Projects)	December 2007	Initial baseline was submitted for DOE review and the IPR
If < \$100 M Perform IPR, > \$100 M Perform EIR (Individual Projects)	March 2008 – September 2008	Onsite review started in March 2008 with recommendation for certification of the near-term performance baselines in September 2008.
Approve Performance	January 2009	

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Baseline		
Approve Start of Construction	January 2009	
Approve Project Completion	September 2011	Projected completion date based on successful ARRA acceleration.

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NOTES:

There is a risk that the development, review and approval process for regulatory required documents could take longer than planned. We are working with all parties involved in the process to help expedite the process where possible. There is also a risk that the required soil remediation and groundwater remedial remedies may increase once the applicable regulatory documents are approved. Both risks may result in both cost and schedule delays to the project. Significant coordination and planning is ongoing between contractors and the Department to help mitigate these risks.

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III. PERFORMANCE

Performance Measures

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

Recovery Act Project Identification Code	2002240
Linkage To S-1 Priorities	Nuclear Security and Legacy
Linkage to Current Program Goal (if applicable)	<p>DOE Strategic Goal 4 –Environmental Responsibility – Protecting the environment by providing a responsible resolution to the environmental legacy of nuclear weapons production.</p> <p>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 come.</p>
Two-Year Outcome-Oriented Performance Measure	The SLAC Recovery work scope includes the implementation of necessary long-term groundwater remediation remedies once the Groundwater VOC Operable Unit Feasibility Study and Remedial Action Plan get approved; the development of the West SLAC Campus Area/IR-8 Operable Unit Feasibility Study and Remedial Action Plan; all remaining soil excavation (approximately 12,000 banked cubic yards), transportation, disposal, clean up confirmation sampling and restoration activities associated with the Boneyard, Casting Pad/Bldg 18, Lower Salvage Yard, Clean Landfill and the Klystron Gallery Variable Voltage will be all be completed
First Year Performance Target	In the first year the following Recovery Act work scope will accomplished: Complete Groundwater VOC Operable Unit soil

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	cleanup and complete Plating Shop Area remedial design and commence West SLAC removal and Remedial Investigation field work.
Q1 - Project-Level Quarterly Performance Milestone(s)	NA
Q2 - Project-Level Quarterly Performance Milestone(s)	NA
Q3 - Project-Level Quarterly Performance Milestone(s)	Commence West SLAC removal and Remedial Investigation field work 06/2009
Q4 - Project-Level Quarterly Performance Milestone(s)	Complete Groundwater VOC Operable Unit soil cleanup and complete Plating Shop Area remedy design 09/2009
Second Year Performance Target	In the second year the following Recovery Act work scope will be accomplished: - Complete groundwater VOC Operable Unit (OU) Remedial Design Report; begin groundwater VOC OU Plating Shop Area System Construction; Complete Groundwater VOC OU Test Lab/Central Lab Remedial Design; Complete Groundwater VOC Operable Unit Test Lab/Central Lab System Construction; Complete West SLAC Remedial Investigation Field Work; Commence Research Yard/IR-6 Operable Unit Remedial Investigation Field Work
Q1 - Project-Level Quarterly Performance Milestone(s)	<ol style="list-style-type: none"> 1. Complete Groundwater VOC Operable Unit Remedial Design Report for submittal to the regulator 10/2009 2. Begin Groundwater VOC Operable Unit Plating Shop Area System Construction 11/2009 3. Complete Groundwater VOC Operable Unit Test Lab/Central Lab Remedial Design 12/2009
Q2 - Project-Level Quarterly Performance Milestone(s)	<ol style="list-style-type: none"> 1. Commence West SLAC Clean Landfill Excavation, Transportation & Disposal 01/2010 2. Commence Groundwater VOC Operable Unit Test Lab/Central Lab System Construction 02/2010
Q3 - Project-Level Quarterly Performance Milestone(s)	<ol style="list-style-type: none"> 1. Complete Groundwater VOC Operable Unit Test Lab/Central Lab System Construction 04/2010 2. Complete West SLAC Remedial Investigation Field Work 06/2010

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Q4 - Project-Level Quarterly Performance Milestone(s)	<ol style="list-style-type: none"> 1. Prepare West SLAC Operable Unit Risk Assessment Report for submittal to Regulator 07/2010 2. Commence Research Yard/IR-6 Operable Unit Remedial Investigation Field Work 09/2010
Third Year Performance Target	<ol style="list-style-type: none"> 1. In the third year of this Recovery Act work the following will be accomplished: Complete Research Yard/IR-6 OU Remedial Investigation Field Work; Complete West SLAC OU Removal Action Implementation Report; Complete West SLAC OU Remedial Action Plan; Complete Groundwater VOC OU Implementation Report; Complete Research Yard/IR-6 OU Remedial Action Completion Report; Complete Groundwater VOC Operable Unit Risk Management Plan; Complete West SLAC Operable Unit Risk Management Plan; DOE-SC Accepts SLAC Long Term Response Action responsibility; CD-4 approved.
Q1 - Project-Level Quarterly Performance Milestone(s)	<ol style="list-style-type: none"> 1. Complete Research Yard/IR-6 Operable Unit Remedial Investigation Field Work 10/2010 2. Complete West SLAC Operable Unit Removal Action Implementation Report for submittal to the regulator 11/2010
Q2 - Project-Level Quarterly Performance Milestone(s)	<ol style="list-style-type: none"> 1. Complete West SLAC Operable Unit Remedial Action Plan for submittal to the regulator 02/2011 2. Complete Groundwater VOC Operable Unit Implementation Report for submittal to the regulator 03/2011
Q3 - Project-Level Quarterly Performance Milestone(s)	<ol style="list-style-type: none"> 1. Complete Research Yard/IR-6 Operable Unit Remedial Action Completion Report for submittal to the regulator 04/2011 2. Complete Groundwater VOC Operable Unit Risk Management Plan for submittal to the regulator 05/2011 3. Complete West SLAC Operable Unit Risk Management Plan for submittal to the regulator 06/2011

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Q4 - Project-Level Quarterly Performance Milestone(s)	2. DOE-SC Accepts SLAC Long Term Response Action responsibility 08/2011 3. CD-4 approved 09/2011
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NOTE:

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 but it will be completed sooner. 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)
Science and Discovery		
Clean, Secure Energy		
Economic Prosperity	Job creation	This work will create new and/or retain jobs
National Security and Legacy	Complete soil and groundwater legacy waste remediation	Complete remediation of at least five contaminated soil sites (approx. 10 acres); complete design, construction and implementation of necessary long-term groundwater remediation remedies at two sites and save ~\$2 M in anticipated baseline operating costs in

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		FY 2012.
Climate Change		

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Collaboration and Coordination

- The project is conducted under regulatory order of the California Regional Water Quality Control Board and includes a stakeholder core team representing the landowner and community interests.
- The project requires direct coordination with the Office of Science since the SLAC National Accelerator Laboratory is an operating Science facility and the EM work must be completed in conjunction with their operations.
- The project relies on the SLAC M&O contractor to provide infrastructure and maintenance and operation support to the legacy cleanup activities.
- The contractor and the Department must coordinate activities with Stanford University as the operator of the laboratory and land owner. Some of the required soil remediation is located inside the Stanford University property but outside of the SLAC boundaries.
- Scientific research at the laboratory involves international collaboration in many areas and completion of this project will enable that work to continue.

Federal Infrastructure Investments

This project is focused on reducing the agency's legacy environmental impact at the Laboratory.

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 compliant) will be used to oversee the project.

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- 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			

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limited TERM, non-competitive authorities anticipated to be needed for this project.

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