

**10-SC-70, Research Support Building and Infrastructure Modernization,
SLAC National Accelerator Laboratory, Menlo Park, California
Project Data Sheet is for PED**

1. Significant Changes

The most recent DOE O413.3A Critical Decision (CD) is CD-0 (Approve Mission Need) that was approved on October 10, 2008 with a preliminary Total Estimated Cost (TEC) range of \$80,000,000–\$96,000,000.

A Federal Project Director with certification level II has been assigned to this project.

This Project Data Sheet is new for PED.

2. Design, Construction, and D&D Schedule

	CD-0	CD-1	(Design/PED Complete)	CD-2	CD-3	CD-4	D&D Start	D&D Complete
FY 2010	10/10/2008	1Q FY2010	2Q FY2011	TBD	TBD	TBD	TBD	TBD

- CD-0 – Approve Mission Need
- CD-1 – Approve Alternative Selection and Cost Range
- CD-2 – Approve Performance Baseline
- CD-3 – Approve Start of Construction
- CD-4 – Approve Start of Operations or Project Closeout
- D&D Start – Start of Demolition & Decontamination (D&D) work
- D&D Complete –Completion of D&D work

3. Baseline and Validation Status

	TEC, PED	TEC, Construction	TEC, Total	OPC Except D&D	OPC, D&D	OPC, Total	TPC
FY 2010	\$8,900	TBD	TBD ^a	\$1,400 ^b	TBD	TBD	TBD

4. Project Description, Justification, and Scope

SLAC National Accelerator Laboratory is an Office of Science (SC) laboratory that supports a large national and international community of scientific users performing cutting edge research in support of the Department of Energy mission. Success of that mission is directly coupled to the general purpose infrastructure necessary to conduct this research. At SLAC, accomplishment of that mission is currently at-risk given substandard buildings that do not provide the appropriate environment to conduct world class science or mission support functions.

SLAC has moved from a single program to a multi-program laboratory; this transition, combined with the condition and age of SLAC facilities, drives the need to consolidate core research functions and

^a Costs are to be determined. The preliminary TEC range is \$80,000,000 to \$96,000,000.

^b Other Project Costs of \$1,400,000 are funded through laboratory overhead.

modernize key support buildings. The most pressing infrastructure gaps are the lack of appropriate space to house and co-locate accelerator scientists and key mission support staff who are currently spread across the laboratory in outdated and inefficient facilities.

To correct these deficiencies, a new building is proposed to house the laboratory’s accelerator scientists. This new building will replace numerous 40-year-old trailers that currently support the laboratory’s accelerator scientists. This will enable integration of the accelerator science and technology community across programmatic boundaries, allowing these scientists to better support the science missions at the laboratory. In addition, renovation of three buildings is proposed (i.e., 003, 024, and 041). These buildings house key mission support functions and were part of the original construction of the laboratory in the mid-1960s. Although the basic core and shell construction are sound, their interior spaces and utility system are obsolete. Overall, the proposed project will upgrade working conditions for over 20% of the laboratory staff in a way that supports the laboratory vision of a unified culture with a strong sense of community between all scientific and support functions across the laboratory.

The project is being conducted in accordance with the project management requirements in DOE O 413.3A and DOE M 413.3-1, Program and Project Management for the Acquisition of Capital Assets, and all appropriate project management requirements have been met.

5. Financial Schedule

(dollars in thousands)

	Appropriations	Obligations	Costs
Total Estimated Cost (TEC)			
PED			
FY 2010	8,900	8,900	5,900
FY 2011	—	—	3,000
Total, TEC	8,900	8,900	8,900
Other Project Cost (OPC) ^a			
FY 2009	500	500	500
FY 2010	900	900	900
Total, OPC	1,400	1,400	1,400
Total Project Cost (TPC)			
FY 2009	500	500	500
FY 2010	9,800	9,800	6,800
Outyears	—	—	3,000
Total, TPC	10,300 ^b	10,300 ^b	10,300 ^b

^a Other Project Costs of \$1,400,000 are funded through laboratory overhead.

^b This Project has not yet received approval of CD-2; therefore estimates displayed only include funding for PED and associated other project costs. The preliminary TEC range is \$80,000,000 to \$96,000,000.

6. Details of Project Cost Estimate

(dollars in thousands)

	Current Total Estimate	Previous Total Estimate	Original Validated Baseline
Total Estimated Cost (TEC)			
Design (PED)			
Design	6,675	N/A	N/A
Contingency	2,225	N/A	N/A
Total, PED	8,900	N/A	N/A
Total, TEC	8,900	N/A	N/A
Contingency, TEC	2,225	N/A	N/A
Other Project Cost (OPC)			
OPC ^a			
Other OPC	900	N/A	N/A
Start-Up	300	N/A	N/A
Contingency	200	N/A	N/A
Total, OPC	1,400	N/A	N/A
Total, TPC ^b	10,300	N/A	N/A
Total, Contingency	2,425	N/A	N/A

7. Schedule of Project Costs

For schedule of project costs, see Section 5, "Financial Schedule."

8. Related Operations and Maintenance Funding Requirements

Not applicable for PED.

9. Required D&D Information

Not applicable for PED.

10. Acquisition Approach

Not applicable for PED.

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