




U.S. DEPARTMENT OF  
**ENERGY**

Office of  
Science

**SLAC Site Office**

SLAC National Accelerator Laboratory  
2575 Sand Hill Road, MS-8A  
Menlo Park, CA 94025

DATE: January 7, 2011

MEMORANDUM FOR: George J. Malosh   
Deputy Director for Field Operations  
Office of Science

FROM: Paul Golan  
Site Manager  
SLAC Site Office

SUBJECT: Annual National Environmental Policy Act (NEPA) Planning  
Summary for 2011, SLAC National Accelerator Laboratory

The purpose of this memorandum is to transmit the Annual National Environmental Policy Act (NEPA) Planning Summary for the SLAC National Accelerator Laboratory (SLAC), in accordance with the June 1994 Secretarial Policy Statement on NEPA and Department of Energy Order 451.1B.

The SLAC Site Office (SSO) has reviewed ongoing and planned activities at the site and determined, in consultation with the DOE NEPA Compliance Officer, that there is one NEPA Environmental Assessment (EA) planned within the next 12 months. This EA will cover activities planned for the Linac Coherent Light Source II Project and is identified in the attached list of EAs identified in the Annual NEPA Planning Summary for 2011 for SLAC.

We do not anticipate any activities over the next 24 months that will require preparation of an Environmental Impact Statement (EIS). The SSO has determined that planned actions at the site are sufficiently covered by either NEPA Categorical Exclusions or EAs, and that a site-wide EIS would not facilitate future NEPA compliance efforts.

If you have any questions or need additional information, please contact me at (650) 926-3208 or Dave Osugi of my staff, at (650) 926-3305.

Attachment

cc: Marc Jones, SC-31, GTN  
Sat Goel, SC-31.1, GTN  
Frank Marcinowski, EM-10, FORS  
Letitia O'Connor, EM-11, FORS  
Carol Borgstrom, GC-20, FORS  
Peter Siebach, SC-CH  
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# Annual NEPA Planning Summary Environmental Assessments Expected to be Prepared in the Next 12 Months

Enter the name of the reporting organization here: Program Office or Field Organization

Enter APS report date here

*Title, Location	Estimated Cost	Estimated Schedule (**NEPA Milestones)	Description
LCLS-II		Determination Date: 2011 Transmittal to State: TBD EA Approval: TBD	The proposed Linac Coherent Light Source (LCLS)-II Project is an expansion of the existing LCLS x-ray free electron laser (FEL) facility at SLAC, employing sectors 10-20 of the existing 2-mile linear accelerator (linac). The LCLS-II Project includes a new 135 MeV injector to be built at Sector 10 of the 30-sector SLAC linac to create the high brightness electron beam required for the FEL. The second third of the existing linac will be modified by adding two magnetic bunch compressors. Most of the linac, and its infrastructure, will not be changed. The existing LCLS Beam Transport Hall, located in the Research Yard, will be widened and extended to provide a second linac-to-undulator transport line (LTU2). LTU2 will enter the berm at the east end of the Research Yard, connecting to an underground tunnel housing two undulators and associated equipment. The two undulators will be installed in series along a single electron beam transport line. A shielded electron beam dump will be located approximately 50 meters downstream of the undulator. A new experimental hall, EH2, will be constructed approximately 100 meters downstream of the undulator and contain at least four experiment stations, at least two of which will be housed in shielded hutches.
	\$50,000	FONSI: Determination Date: Transmittal to State: EA Approval: FONSI:	TBD
		Determination Date: Transmittal to State: EA Approval: FONSI:	
		Determination Date: Transmittal to State: EA Approval: FONSI:	
		Determination Date: Transmittal to State: EA Approval: FONSI:	1/7/2011

\* Please include projected NEPA milestones, if planned.

Annual NEPA Planning Summary(year) Program or Field Organization Name



