

memorandum

DATE: **MAR 24 2009**

REPLY TO

ATTN OF: Office of Basic Energy Sciences, SC-22

SUBJECT: DEPARTMENT OF ENERGY REVIEW OF THE LINAC COHERENT LIGHT SOURCE (LCLS) PROJECT

TO: Daniel R. Lehman, Director, Office of Project Assessment, SC-28

I request that you organize and lead an Office of Science status review of the LCLS Project at the SLAC National Accelerator Laboratory during May 13-15, 2009. The general purpose of this review is to evaluate progress in all aspects of the project: technical, conventional facilities, cost, schedule, management, and environment, safety and health (ES&H). A specific objective is to ensure the project has an adequate 'end game' plan which assures successful completion of the project.

During the past several months, the project has continued its civil construction and technical hardware procurement and installation activities, in preparation to meet the Level 2 Milestone, Approve Start of Near Hall Operations (scheduled for September 2009), and the Critical Decision-4 Project Completion Milestone (scheduled for July 2010). The project was 87 percent complete as of the end of January 2009.

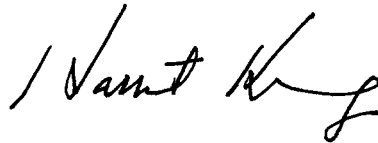
In carrying out its charge, the Committee should respond to the following questions:

1. Are the project's remaining cost, schedule, and technical baselines realistic, reasonable, and consistent with the current approved Project Execution Plan? Is the information in the DOE Project Assessment Reporting System consistent with physical progress?
2. Are the designs, procurement, and commissioning plans of the scientific and technical systems sufficiently mature to support the project schedule? Has LCLS properly addressed instrument scope issues identified by the Instrument Development Teams?
3. Has the renovation of office space (Buildings 28 and 751) been integrated into the appropriate project planning and execution documents, and is progress appropriate to complete this renovation as scheduled?
4. Are risks properly managed and is there adequate contingency (cost and schedule) to address the risks inherent in the remaining work?
5. Is the project properly managed (organization, adequate staffing) to complete construction and technical equipment installation and commissioning? Does the project have the 'end game' properly planned and are they capable of completing the project as defined in the Project Execution Plan? Is transition-to-operations planning adequate?
6. Are ES&H aspects being properly addressed?

7. Has the project responded appropriately to recommendations from prior DOE and other reviews?

The BES program will further address the current status of the project and any corresponding questions the reviewers should consider at the opening executive session of the review.

Thomas Brown, the LCLS Program Manager, will serve as the Office of Basic Energy Sciences point of contact for this review. I would appreciate receiving your committee's report within 60 days of the review's conclusion.



Harriet Kung
Associate Director of Science
for the Office of Basic Energy Sciences

cc:

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