
memorandum

DATE: June 23, 2016

REPLY TO

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

SUBJECT: DEPARTMENT OF ENERGY INDEPENDENT PROJECT REVIEW FOR THE NATIONAL SYNCHROTRON LIGHT SOURCE-II (NSLS-II) EXPERIMENTAL TOOLS (NEXT) PROJECT

TO: Stephen Meador, Director, Office of Project Assessment, SC-28

I request that you organize and conduct an Independent Project Review of the NEXT project at the Brookhaven National Laboratory on August 30-31, 2016, for the Office of Basic Energy Sciences. This review is to assess the current status of the NEXT project and identify any concerns that could prevent the project from successfully completing within the approved baseline.

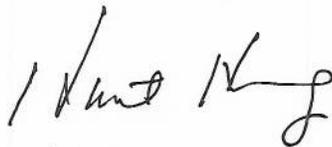
The performance baseline for NEXT (CD-2) was approved October 9, 2013, with a Total Project Cost of \$90M and a CD-4 date of September 30, 2017, along with authorization for Long-Lead Procurements (CD-3A) in the amount of \$16M. CD-3, Start of Construction, was approved on July 7, 2014. As of the end of May 2016, the project is 85.9 percent complete with one beamline already achieving first light. The project has contingency of \$2M based on an Estimate to Complete (EAC) of \$88M.

The objective of NEXT is to provide NSLS-II with a minimum of five "best-in-class" beamlines. This will enable exploration of the unique scientific opportunities offered by the new NSLS-II facility beyond those provided by its initial beamlines.

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

1. Project Scope: Will the project deliver the technical baseline by providing five "best-in-class" beamlines at project completion? If not, where will improvements be needed?
2. Cost and Schedule: Based on the project's performance to date, does the project have sufficient remaining cost and schedule contingency to complete successfully? Is there adequate contingency for any scope enhancements?
3. Management: Is the project being effectively and efficiently managed? Are the remaining risks understood and is the mitigation plan realistic? If there is adequate contingency, is there a prioritized plan for scope enhancements?
4. Environment, Safety & Health and Quality Assurance (ES&H/QA): Has the ES&H/QA performance to date met DOE expectations?
5. Recommendations: Has the project responded appropriately to previous review recommendations?

Philip F. Kraushaar, the NEXT 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 Basic Energy Sciences

cc: F. Crescenzo, BSO/BNL
R. Caradonna, BSO/BNL
E. Johnson, BNL
S. Hulbert, BNL
D. Gibbs, BNL
B. Huizenga, MA.631
K. Chao, SC-28
C. Clark, SC-28
J. B. Murphy, SC-22.3
P. Kraushaar, SC-22.3
P. Lee, SC-22.3
E. Stevens, SC-22.3
R. Meneses, SC-22.3