

## **Charge to the Review Committee**

The purpose of this review is to assess the technical, cost, schedule, management, and ES&H aspects of the HEX Beamline. The Preliminary Design Report is expected to provide sufficient technical depth and detail to demonstrate that the required performance expectations are likely to be met and the design is feasible and sensible. The review will also assess the planned schedule and budget, and identify any major outstanding risks that must be addressed.

The specific elements of the charge are as follows:

1. Preliminary Design: Are the preliminary designs technically sound and likely to meet the identified performance requirements for carrying out the scientific mission of the beamline? Given the current state of progress, and design maturity, is it reasonable to proceed with long lead time procurements as planned? Is the supporting documentation adequate for this stage of the project? Have recommendations from previous reviews been incorporated?
2. Project Scope: Is the project's remaining scope sufficiently well-defined to support the cost and schedule estimates and allow the beamline to be completed to plan?
3. Cost and Schedule: Does the project have good cost and schedule estimates? Is it clear what remaining activities are to be provided and paid for by the Partner group and by NSLS-II? Do these estimates include adequate contingency (cost or scope)?
4. Risks: Are the risks (technical, cost, and schedule) understood and are appropriate steps being taken to manage and mitigate these risks?
5. Management: Is there a credible plan to manage the project? Is the project team organized and staffed adequately to carry out the project? Are the roles of the Partner and NSLS-II staff sufficiently well defined?
6. Are ES&H aspects being properly addressed given the project's current stage of development?

A review report is requested to be sent to the NSLS-II Deputy Director for Construction within one month of the review.