Charge to the NSLS-II Project Advisory Committee
November 20, 2007

The NSLS-II project recently underwent two DOE reviews: an Independent Project Review (IPR) by the Office of Science (SC) and an External Independent Review (EIR) by the Office of Engineering and Construction Management (OECM). Both reviews went well and both review teams have recommended that we move forward to seek approval of Critical Decision 2, "Approve Performance Baseline", once some issues are resolved. The key recommendations from the IPR/EIR include:

- Develop a plan that focuses on strengthening the project team to successfully transition from design to construction in a timely manner
- Implement an effective construction management approach
- Actively engage ES&H staff in selection of general contractor
- Resolve issue of beam height in storage ring tunnel
- Dedicate increased attention to integration issues during final design

The performance baseline that the NSLS-II project has established includes a preliminary design for a baseline scope that meets the performance and cost goals and provides substantial experimental capability. Key milestones in 2008 and early 2009 include:

• Deliver 30% Title II design	Feb 15, 2008
• Deliver 60% Title II design	May 15, 2008
• Select BATs for Project beamlines	May 15, 2008
• Award Construction Management contract	May 15, 2008
• Deliver 90% Title II design	July 14, 2008
• Complete Title II final design	September 12, 2008
• Ring Building Procurement Package out for bid	October 13, 2008
• Begin Site Preparation	October 31, 2008
• Site preparation complete	January 6, 2009
• CD-3 – Approve Start of Construction	January 15, 2009
• Storage Ring Magnet Design Complete	February 26, 2009
• Issue Ring Building Notice to Proceed	June 3, 2009

The overarching goals for 2008 are to resolve major outstanding preliminary design issues, complete the final design, and to develop and implement a plan that prepares the project team to successfully transition from design to construction.

In this context, the PAC is kindly requested to comment and make recommendations on the following topics:

- to assess the adequacy of the proposed construction management approach for conventional facilities
- to assess the planned construction approach for the technical systems
- to assess the appropriateness of the planned organization and staffing for carrying out construction
- to comment on the strategy and plans for procurement of both conventional and technical systems
- to comment on plans for ensuring safety is fully integrated into design and effectively managed during construction
- to comment on key outstanding design issues that must be resolved before commencing final design
- to assess plans for beamline development and scientific strategic planning

In addition, any other comments or observations that the committee wishes to make are most welcome.