

8th Meeting of the NSLS-II Accelerator Systems Advisory Committee

**May 10-11, 2011
Building 817 Conference Room 4**

The NSLS-II project continues to make excellent progress on construction of the Conventional Facilities, production of components for the Accelerator Systems and final design and procurement of the six insertion device project beamlines. The project is over 50% complete and the first pentant of the Ring Building was delivered to the project in mid March 2011. Installation of the accelerator components in the Ring Building has started and the project is currently on-track to finish by March 2014, 15 months ahead of schedule.

As we continue to ramp up activities in a production and installation phase of the project, the ASAC is requested to review and assess the recent progress and near-term plans in Accelerator Systems in terms of technical and schedule performance and adequacy of planned manpower for future activities. Specifically provide advice in the following areas:

- Is there sufficient progress with storage ring magnet production so that the end of production can be forecasted and are the schedule mitigation plans which are being implemented and planned still adequate to prevent major project delay?
- Is there sufficient progress with LINAC, Booster, Beam-transferline and pulsed magnet systems to complete all these systems well before storage ring commissioning in May 2013?
- Is there sufficient margin in the schedule for the beam position monitor systems and other critical diagnostic
- Is there sufficient progress with the control system in particular with hardware for real time data communications systems, timing systems, and networking?
- Are the plans for protecting vacuum and diagnostics components from synchrotron radiation adequate?
- Is there sufficient progress on the project insertion devices?
- Are assembly, installation and testing planned to sufficient detail and is the installation schedule realistic.
- Has there been sufficient progress in commissioning preparation?

The Committee's assessments on these topics will provide valuable input for the project. The committee is kindly requested to formulate its response in a written report which is expected to be received by June 13, 2011.