

NCSX Project Update

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NCSX Project Manager

NCSX Project Meeting

October 16, 2001

Project Highlights Since August Project Meeting

- Moved to new machine configuration (final FY-2001 milestone).
 - 18 modulars, 18 TF's centered on modulars; no coils on symmetry planes.
 - 5 PF pairs.
 - Vacuum vessel with space for pumped divertor and inboard RF.
 - Provision for Thomson scattering at $v=1/2$ cross section.
 - ⇒ Consolidated the gains made since the PVR.
- Issued 6-month progress report on PVR recommendations.
- Entered the final phase of conceptual design before the CDR.
 - **Urgent task: establishing a buildable design by Oct. 31.**
 - Started series of meetings to plan CDR preparations for each WBS.
 - Started general requirements review.
 - Started update of experimental program plan.
 - Issued request for proposals for manufacturing studies.

Goals for a Conceptual Design Review

(per PPPL Procedures)

Assure that:

- Requirements are identified.
- Requirements can be satisfied within acceptable envelopes.
- Cost and schedule targets can be met.
- Issues from past reviews are satisfactorily resolved. [PVR, PAC]
- Risks and hazards are identified; have plans for managing them.
- Plans for completing the design and development are sound.
- Project management plans are appropriately developed and implemented.

Obtain:

- Recommendations for improving designs or plans.

Emphasize novel or unusual aspects of the design.

(NCSX: modular coils, vacuum vessel)

Wayne will discuss preparation plans.

Calendar

- Oct. 29-Nov. 2.** APS/DPP Meeting, Long Beach.
- Nov. 14-15.** 5th NCSX PAC Meeting, PPPL.
- Dec. t.b.d.** NCSX Project Meeting.
- Jan. 7-9.** Workshop on Theory of 3D Magnetic Confinement Systems, ORNL.
- Jan. 16.** (tentative) NCSX Project Meeting.
- Jan. 22-24.** ICC Workshop, College Park, MD.
- Jan. 22-25.** Symposium on Fusion Engineering (SOFE), Atlantic City.
- Jan. 29.** QPS Project Meeting.
- Feb. 25-Mar. 1.** 13th Int'l. Stellarator Workshop, Canberra, Australia.
- Mar. 12-14 or 19-21.** OFES Budget Planning Meeting, Germantown.
- Apr. 16-18.** NCSX Conceptual Design Review, PPPL.
- Apr. 22-24.** Sherwood Theory Meeting, Rochester, NY
- May 6 week.** QPS Conceptual Design Review, ORNL.
- May.** NCSX Project Validation
- July 7-19.** Snowmass meeting.