

NCSX Project Overview

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NCSX Project Manager

NCSX Project Meeting
Princeton Plasma Physics Laboratory
September 23, 1998

Program Status

- Compact Stellarator PoP readiness endorsed by peer review panel.
- FESAC positive about all proposed PoP programs; advised maintaining momentum thru FY-99 while priorities are reviewed program-wide.
- Planned reviews: MFE-IFE balance (SEAB), Fusion Energy Science Program priorities (FESAC). These will be important for us!
- FY-99 outlook: Expect funding close to what we asked for to complete NCSX conceptual design and costing in FY-99.
⇒**We are being given enough rope!!**

Our Task

1. Establish Technical Basis for NCSX Machine

- Physics Requirements
- Conceptual Design
- Cost and Schedule

2. Build Community Consensus

- See #1
- Explain benefits and technical basis widely
 - * Conferences (e.g., IAEA, APS) and workshops
 - * Community review preparations (e.g., recent MFE/IFE workshop)
 - * Seminars, colloquia.

FY-1999 Milestones

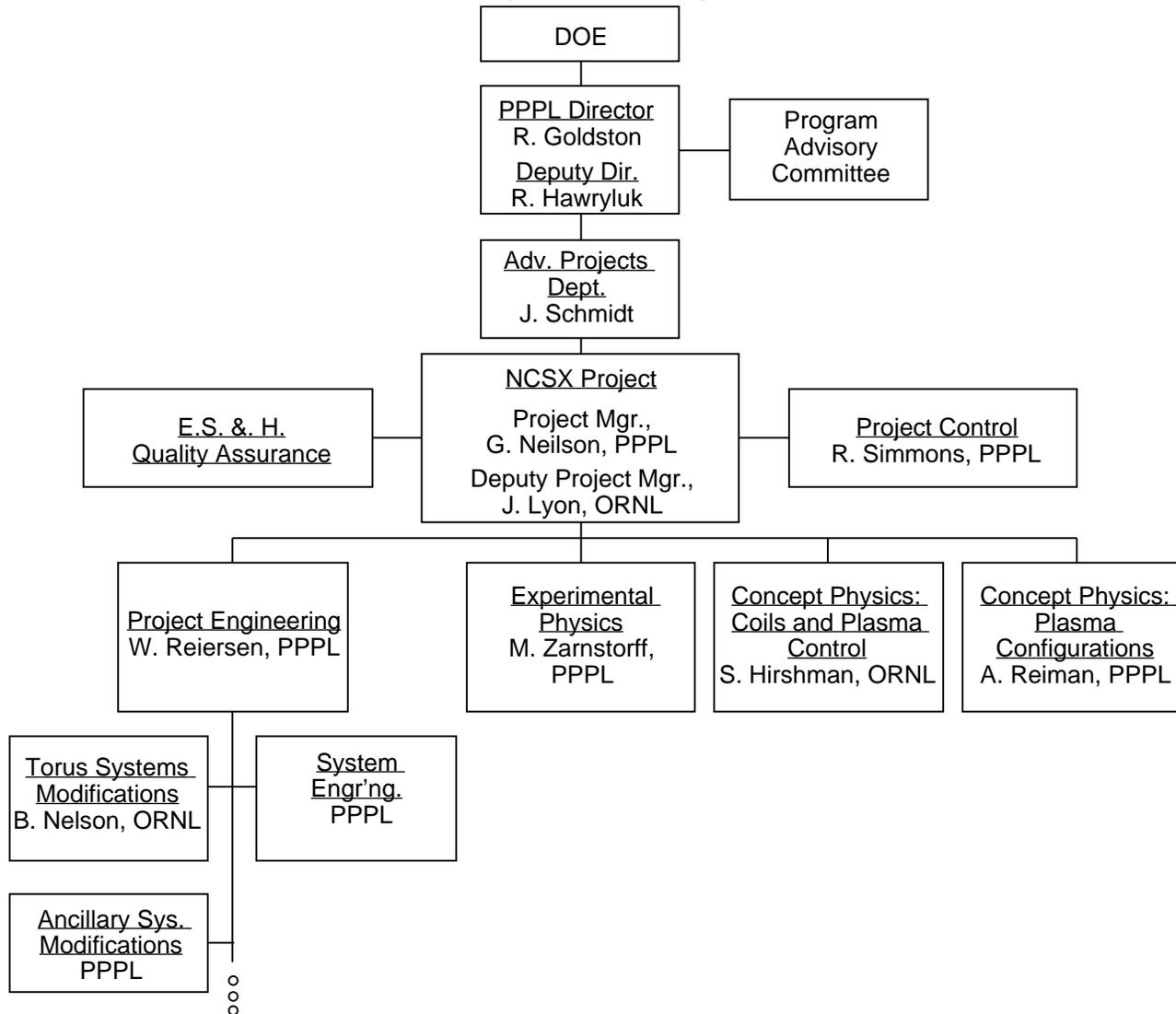
- Physics Validation Review, Jan., 1999
 - Physics requirements & basis
 - Project scope & cost
- Conceptual Design Review, May, 1999
 - Conceptual design that meets physics requirements
 - Cost and schedule
 - Sound basis to proceed
- Project Validation Review, May, 1999
 - DOE validation of project technical basis and plans

NCSX Project Organization

- PPPL and ORNL will propose national project as partners.
- Collaborators will participate in all phases.
- Program Advisory Committee provides national and some international input.
 - PAC #1 in March, 1998
 - PAC #2 scheduled for early December, 1999.

NCSX Project Organization

(unofficial)



Purpose of This Meeting

1. Establish reference plasma and coil configurations.
 - Narrow the issues as much as possible.
 - Make plan for resolving any open issues quickly.

2. Physics Requirements / Technical Scope
 - Current status
 - Identify cost drivers
 - Candidates for cost reduction / schedule acceleration

3. Planning for Physics Validation Review (Lyon)

Focus presentations, discussion on these purposes.

Miscellaneous

- Presentations will be posted on NCSX web site. Please submit electronically to Bob Simmons. Also, submit hardcopy if possible or necessary.
- Meeting summary will be posted next week.
- See Joanne Savino for administrative needs (Rm. B-325A, x3379).
- No-host dinner tonight at 7:00--
Capuano's (Italian)
217 Clarksville Rd., West Windsor
897-0091