

National Compact Stellarator Experiment Project Meeting
Oak Ridge National Laboratory
Fusion Energy Division, Director's Conference Room
May 5-6, 1999

Agenda

Purpose

- Establish the physics requirements for the engineering design effort.
- Establish reference coil design
- Establish reference design concept for the stellarator core.

Wednesday, May 5, 1999

- 8:30 Project Overview (G. Neilson)
Developments, calendar, PAC meeting, PVR plan.
- 9:00 Physics Requirements (M. Zarnstorff)*
•Status of Physics Requirements for GRD. Open issues.
- 9:15 Coils for C82 & Eddy Currents (A. Brooks)*
•Status of magnetics analysis including startup scenario, PF coil position study, recommended coil geometry, shell and VV time constants, future work.
- 10:00 Break

Engineering

- 10:15 Superconducting options (J. Schultz)
- 10:35 Core Design (B. Nelson, D. Williamson, P. Goranson, M. Cole)
•Options assessment, design and analysis update, recommended concept, plans, input needs, issues.
- 12:00 Lunch
- 12:45 Core Design, cont'd.
- 2:45 Break
- 3:00 Construction Cost and Schedule (R. Simmons)
•Plans to update for PVR; input needs.
- 3:15 Engineering Summary (W. Reiersen)
Issues, plans, key milestones, input needs, open issues, etc.

* Remote presentation.

Wednesday, May 5, 1999, cont'd.

Physics Topics

- 3:30 Equilibrium and Bootstrap Current (D. Monticello)*
PIES/equilibrium quality status, bootstrap current update, plans.
- 4:10 Edge Physics Requirements and Plan (P. Mioduszewski)
space allocations, structures, particle control strategy, plans.
- 4:30 Reactor Issues (J. Lyon)
•Coil and parameter studies, plans.
- 4:50 Discussion
- 5:30 Adjourn

Thursday, May 6, 1999

Physics Group Updates

All: Issues and plans for resolution, update of plans and wrap-up items from Feb. and Mar. meetings, PVR chapter outline and assignments.

- 8:30 Plasma Configurations (A. Reiman)*
- 9:00 Coil Concepts and Tools (S. Hirshman)
- 9:30 Experiment and Transport (M. Zarnstorff)*
- 10:00 Break
- 10:15 Discussion

Conclusions

- 10:45 Old Wrap-Up Items and Design Schedule (R. Simmons)
• Closeout of old items; still-open items; new items; input needs.
- 11:00 Discussion and Wrap-Up (G. Neilson)
- 12:00 (1:00 at the latest) Adjourn

* Remote presentation.