

National Compact Stellarator Experiment Project Meeting
Princeton Plasma Physics Laboratory, Room LSB-318
March 30-31, 1999

Agenda

Purpose

- Define NCSX Reference Plasma and Coil Configuration for Physics Validation Review Design
- Review progress toward the Physics Validation Review (update plans developed at Feb. project meeting)

Tuesday, March 30, 1999

8:30 Project Overview (G. Neilson)

Plasma Configuration and Transport

9:00 Plasma Configuration Design (L.-P. Ku)
9:30 Kink Stability Update (G.-Y. Fu) *cancelled*
9:50 Vertical Stability (M. Redi)
10:10 Break
10:40 Thermal transport (H. Mynick)
11:00 Neutral beam confinement (D. Spong) *presented by Zarnstorff*
11:20 Bootstrap current (D. Monticello, M. Zarnstorff)
11:50 Discussion
12:30 Lunch

1:30 Update of Operating Points & Plans (M. Zarnstorff)

2:00 Update of Plasma Configuration Plans (A. Reiman)

2:20 Break

Coil Design, Concepts, and Tools

2:50 Coil Design for Candidate Configurations (A. Brooks, N. Pomphrey)

3:20 Equilibrium Quality / PIES) D. Monticello

3:40 K minimization, $B_{\text{coil}}/B_{\text{plasma}}$ (P. Valanju) *

4:00 Genetic Algorithm (W. Miner) *

4:20 Update of Coil Group Plans (S. Hirshman) *

4:40 Discussion

5:30 Adjourn

7:00 No-Host Dinner at Local Restaurant

* Remote presentation.

Wednesday, March 31, 1999

Engineering

- 8:30 Requirements Issues (W. Reiersen)
- 8:50 Update on Coil Design (A. Brooks, D. Williamson*, W. Reiersen)
- 9:40 Update on VV and Saddle Coil Design (D. Williamson, M. Cole)*
- 10:30 Break
- 10:45 Cost and Schedule Update (R. Simmons)
- 11:00 Number of TF Coils: 18 vs. 20 (P. Heitzenroeder, M. Cole*)
- 11:30 Plans for Balance of FY-99 (B. Nelson*, W. Reiersen)
- 12:00 Wrap-Up (G. Neilson)

* Remote presentation.