

NCSX Teleconference Project Meeting
January 11-12, 2000

Agenda

Purpose

- Discuss updated NCSX design plan and milestones.
- Assess progress toward project goals, including milestone deliverables due 3/1/2000
- Refine plans as necessary

Tuesday, January 11, 2000

NCSX Project Plans

- 8:30 Project Overview (G. Neilson)
- 9:00 Physics Design Strategy & Plan (M. Zarnstorff)
- 9:45 Discussion
- 10:15 Break

Physics Targeting and Flexibility

- 10:30 Transport Targeting: DKES, J (D. Spong, L. Ku)
- 11:00 Particle Transport: E-Field Effects, Kernbichler/Nemov Technique (M. Redi)
- 11:20 Good-Surfaces Targeting (M. Zarnstorff)
- 11:45 Discussion
- 12:15 Lunch

- 1:15 Control Matrix Project: Plasma Configuration Implications (H. Mynick)
- 1:45 Flexibility Requirements (D. Mikkelsen)
- 2:05 3D Flux Evolution in NCSX with Current Sources (P. Strand)
- 2:25 Discussion
- 3:00 Break

3D Equilibrium

- 3:15 PIES & VMEC (D. Monticello, S. Hirshman)
- 3:55 M3D Developments (H. Strauss)
- 4:15 Discussion
- 5:00 Adjourn

Wednesday, January 12, 2000

Access

- 8:30 NBI and Vacuum Pumping Access (H. Kugel)
- 8:50 Diagnostic Access (D. Johnson)
- 9:10 RF Access (R. Majeski)
- 9:30 Integration of Access Requirements into Design (M. Cole)
- 10:00 Discussion
- 10:30 Break

Coil Design

- 10:45 Alternative Background Coils (A. Brooks, W. Reiersen)
- 11:30 Alternatives to Saddles: Wavy PFs (P. Valanju)
- 11:50 Expanded Physics Capabilities of GA Code with Applications (W. Miner)
- 12:10 COILOPT Advances: An Alternative to ONSET (L. Berry)
- 12:30 Lunch

- 1:30 Improved Saddles Using Approximate Null-Space Vectors from NESCOIL (N. Pomphrey)
- 2:00 Discussion

Performance

- 2:30 Cabled Conductor Design Guidelines (B. Nelson)
- 3:00 Requirements and Current Density Limits (W. Reiersen)
- 3:30 Break

- 3:45 Wrap-up (G. Neilson)
Update status of deliverables and consider changes in plan
- by 5:00 Adjourn