

ARIES-CS Project Meeting

Draft G, 9/12/2005

Thursday, 15 September 2005
PPPL, C-Site - Room LSB318

Listed times are Eastern Standard Time

7:45 Coffee

PPPL Hosts

Administrative/General

8:00 10 m Welcome to PPPL

R. Goldston

8:10 5 m Review of Meeting Agenda and Logistical Information

L. Waganer

8:15 5 m Logistical and Safety Information

H. Neilson

8:20 10 m Summary of ARIES-CS Study and Meeting Purpose

F. Najmabadi

Compact Stellarator Reactor Physics Basis

8:30 60 m Assessment of New 2-FP and 3-FP Plasma and Coil Configurations L-P Ku

9:30 30 m Discussion/Feedback on Proposed Plasma and Coil Configurations Community

10:00 15 m Break

10:15 30 m Basis and Applicability of Beta Limits to Compact Stellarators A. Turnbull/P. Garabedian

10:45 15 m Discussion/Feedback on Beta Limits Community

Compact Stellarator Reactor Integrated Systems Assessment

11:00 45 m Systems Code Results: Impact of Physics and Engineering Assumptions J. Lyon

11:45 15 m Discussion/Feedback on Systems Code Results and Assumptions Community

12:00 60 m Lunch

Compact Stellarator Reactor Engineering Assessment

1:00 30 m Engineering Assessment of Power Core and Maintenance R. Raffray

1:45 15 m Discussion/Feedback on Power Core and Maintenance Assessment Community

Compact Stellarator Assessment

2:00 30 m Discussion of ARIES Compact Stellarator Approach H. Neilson, moderator

2:30 15 m Break

ARIES-CS Debrief

2:45 60 m Discussion of Recommendations and Action Item Assignment F. Najmabadi

- Plasma Configurations
- Coil Configurations/Engineering
- Beta Limit Assumptions
- Systems Code Results and Assumptions
- Power Core and Maintenance Approaches

+++++Start ARIES Compact Stellarator Project Meeting+++++

Compact Stellarator Reactor Physics Basis

3:45 30 m Next Steps on Plasma and Coil Configurations

L-P Ku/P. Garabedian

4:15 15 m Impact of Recommended Beta Limits

A. Turnbull

4:30 45 m Update on Divertor Design and Heat Load Analysis

T. K. Mau

5:15 Adjourn Meeting

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Friday, 16 September 2005
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7:45 Coffee

PPPL Hosts

Compact Stellarator Reactor Integrated Systems Assessment

8:00 30 m Recent Results and Next Steps for the Systems Code

J. Lyon

Compact Stellarator Reactor Engineering Assessment

8:30 30 m Status of Power Core and Divertor Design and Structural Analysis

R. Raffray

9:00 20 m Status of Power Core Configuration and Maintenance Approach

X. Wang

9:20 20 m Status of Coil Structure Design and Analysis

X. Wang

9:40 10 m Break

9:50 30 m Superconducting Magnet Options for Compact Stellarators

L. Bromberg

10:20 30 m 2-D Analysis of Neutron Streaming Through Helium Access Tubes

L. El-Guebaly

Compact Stellarator Safety Analyses

[No presentations]

Summary of Action Item Responses

10:50 20 m Discuss Action Items and Plans

F. Najmabadi

- Engineering

- Systems

- Physics

11:10 10 m Establish Meeting and Conference Call Dates

F. Najmabadi

- Next Meeting, UCSD, December 2005

11:20 Adjourn Meeting