

Appendix I
FINAL
Agenda for APEX Study Meeting
UCLA, Engineering IV, Room 37-124
October 15-17, 1997

Wednesday October 15

Session I: Study Scope and Objectives

(Session Chair: Sam Berk)

1:00 p.m.	OFES Vision of APEX	Sam Berk
1:15 p.m.	Motivation, Scope, and Preliminary Approach for APEX	Abdou
2:15 p.m.	Discussion on Broad Issues	
2:55 p.m.	APEX Secretary Plans	Youssef
3:00 p.m.	Break	

Session II: Key Limitations of Present Concepts

(Session Chair: John Haines)

3:15 p.m.	Peak to Average Wall Load	Youssef
3:30 p.m.	Limitations of Current Concepts in Handling High Power Density	El-Azab
4:00 p.m.	Discussion on Key Factors Limiting the High Power Density Capability of Current Concepts	
5:00 p.m.	Briefing on ALPS Activity	Mattas
5:30 p.m.	Briefing on US-Japan HPD Workshop	Wong
5:50 p.m.	Needs for Physics Connection and Broadening of Attitude	Wong
6:10 p.m.	Adjourn	
7:15 p.m.	Group Dinner (Faculty Center, Hacienda Room)	

Thursday October 16

Session III: Preliminary Examples of High Power Density Concepts

(Session Chair: Neil Morley)

9:00 a.m.	High Power Density Examples	Morley
9:30 a.m.	High Power Density Examples	Ying
10:00 a.m.	Suggestions for Concepts	Moir
10:30 a.m.	Break	
10:45 a.m.	Suggested Concepts	Sze
11:15 a.m.	Use of Liquid Lithium as Self-Protecting FW	Wooley
11:45 a.m.	Design Examples for High Power Density Concepts	Wong
12:15 p.m.	Comments on Example Concepts	
1:00 p.m.	Lunch (Faculty Center, Hacienda Room)	
2:10 p.m.	Lessons from Existing Non-Fusion High Power Density Concepts	
	<ul style="list-style-type: none">• Experience from Rocket Engines• Metal Foams for Rocket Engines	Yuen/Clemens Ghoniem

Session IV: How to effectively stimulate New Concepts

(Session Chair: Richard Nygren)

3:00 p.m.	Possible Materials for High Wall Loading	Zinkle
3:30 p.m.	Stimulating Innovation Through Pursuit of Engineering Science Logic: <ul style="list-style-type: none">• Examples• Group Discussion	El-Azab
4:20 p.m.	Break	

Session V: Identification of APEX Study Approach

(Session Chair: Mohamed Abdou)

4:30 p.m.

- Fixed “Driver” Criteria (Wall Load, Surface Heat Flux, Net Conversion Efficiency, etc.)
- Tradeoff Criteria (Key Factors in Economics, Safety, Environmental impact)
- Possible approaches “HOW” to conduct the study
- Study Guidelines

6:00 p.m.

Adjourn

Friday October 17

Session VI: Tasks and Planning Group

(Session Chair: Mohamed Abdou)

8:30 am

- Summary of General Study Guidelines/Approach
- Tasks for the Planning Group
- Outline of Planning Report and Task Assignments
- Schedule

12:30 p.m.

Close of the Meeting

Appendix I (Cont'd)
Agenda for Friday Morning
APEX Study Meeting
UCLA, Engineering IV, Room 37-124
October 17, 1997

- 8:30 a.m. – Date, location for next meeting
 – Matrix Groups/Tasks
 – Response to Questions Raised
- 9:00 a.m. Group/Design Conceptualization & Analysis
 – What is needed by next meeting
 – Concepts to be pursued
 – Lead Organization/individuals
 – Supporting Organizations/individuals
 – Interests of (and role of) organizations and individuals
- 10:00 a.m. Coffee Break
- 10:15 a.m. Group 2: Mechanical design and availability
 (Group 3: Materials already covered Thursday)
 Group 4: Power conversion system
 Group 5: Physics Interface
 Group 6: Safety & Environment
 Group 7: Alternate Confinement Concepts
 Group 8: Judgment & Selection (only ideas for now)
- 11:30 a.m. Other issues/business