HIGH HEAT FLUX TECHNICAL ASSESSMENT

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HHFMCD TASK GROUP MEETING
FEBRUARY 23-24, 1984
UCLA

HIGH HEAT FLUX TECHNICAL ASSESSMENT MEETING

UCLA Faculty Center, Sierra Room February 23-24, 1984

Thursday, February 23						
9:00-9:30	Introductory Remarks	Cohen/Davis				
9:30-10:00	Status of High Heat Flux Program	Gauster				
10:00-10:30	Status of TPE-II	Easoz				
10:30-11:00	Technical Assessment	Abdou				
11:00-11:45	Operating Conditions	Ulrickson				
11:45-12:00	General Remarks	Milora				
12:00-1:00	Lunch					
1:00-2:00	System Integration	Morgan				
2:00-3:00	Materials and Processes	Mattas				
3:00-3:45	Heat Transfer	Boyd				
3:45-4:45	Thermomechanical Response	Watson				
4:45-5:30	Discussion					
Friday, February 24						
8:30-9:30	Electromagnetic Response	Wolfer				
9:30-10:00	Instrumentation and Control	Easoz				
10:00-11:30	Survey of Facilities	Gordon				
11:30-12:00	Discussion of Technical Assessments					
12:00-1:00	Lunch					
1:00-4:00	Continued Group Discussion and Subgroup Meetings/ Finalize Report					

REPORT STATUS (AS OF FEBRUARY 22, 1984)

	Chapter	Lead Author	Page Allocation	Present Pages
EXECUTIVE SUMMARY		Аврои	8	
Introduction		Авдои	2	
I.	Operating Conditions	ULRICKSON	10	
II.	System Integration	Morgan	20	> 40
III.	Materials & Processes	MATTAS	20	34
IV.	Heat Transfer	Boyd	15	60
٧.	THERMOMECHANICAL RESPONSE	Watson	15	22
VI.	ELECTROMAGNETIC RESPONSE	Wolfer	10	15
VII.	Survey of Facilities	Gordon	10	5
VIII.	Instrumentation & Control	Easoz	10	22

IDENTIFYING AND CHARACTERIZING CRITICAL ISSUES AND R&D NEEDS

- AN IMPORTANT PART OF THE TECHNICAL ASSESSMENT IS TO IDENTIFY AND CHARACTERIZE THE TECHNICAL ISSUES.
- THE LIST OF CRITICAL ISSUES MUST BE LIMITED (~ 10 or Less).
- THIS LIST WILL BE MADE VISIBLE IN THE EXECUTIVE SUMMARY.

ACTION ITEM

- EACH SUBGROUP CHAIRMAN DEVELOPS FOR HIS AREA A SUMMARY OF:
 - 1) CRITICAL/KEY ISSUES
 - 2) R&D NEEDS.

• GUIDELINES:

- Limit the number of issues to the minimum (~ 5 for each area; maybe only 1 or 2 for some; in extreme cases, e.g., materials, 6 or 7).
- STATE THE ISSUE FOLLOWED BY A BRIEF DESCRIPTION OF THE ISSUE, WHY IT IS IMPORTANT, AND THE CONDITIONS UNDER WHICH IT BECOMES MORE SEVERE OR BECOMES LESS IMPORTANT.
- Do the same for R&D needs.
- CONSULT WITH YOUR GROUP (VIA PHONE OR TELEFAX).

Deadline:

- Mail to M. Abdou by March 16 (Telefax or Federal Express).

RESPONSIBILITIES FOR SUMMARY OF CRITICAL ISSUES AND R&D NEEDS

Area	Person	Page Limit	No. of Issues Limit	No. of R&D Needs Limit
	. 2			
System Integration	Morgan	2	5	5
MATERIALS AND PROCESSES	MATTAS	3	7	7
HEAT TRANSFER	Boyd	1	2	4
THERMOMECHANICAL	Watson	2	5	5
ELECTROMAGNETIC	Wolfer	2	3	5
FACILITIES	Gordon	2	5	5
Instrumentation and Control	Easoz	1	2	4

Notes

- Number of issues and R&D needs is a factor of 3 larger than will be used in the Executive Summary. Abdou, in consultation with groups, will reduce the numbers based on consistent classifications and relative priority among areas.
- For Facilities, the issues and R&D needs are as they relate to the facilities not the high heat flux components.

SCHEDULE

PLEASE KEEP DEADLINES!

ALL MEMBERS:

• Comments and suggestions for modifications on individual chapters to subgroup chairmen by March 16

GROUP CHAIRMEN:

- Summary of critical issues and R&D needs mailed to M. Abdou by March 16
- FINAL MANUSCRIPTS (CAMERA-READY) MAILED TO M. ABDOU BY APRIL 2

Typing/Administrative Details

- EACH SUBGROUP CHAIRMAN IS RESPONSIBLE FOR GETTING HIS SECTION TYPED CAMERA-READY (WITH HIGH QUALITY, REPRODUCIBLE FIGURES) IN HIS OWN ORGANIZATION
- A TYPING FORMAT (AND SAMPLE) IS PROVIDED. PLEASE ENSURE THAT YOUR SECRETARY FOLLOWS THIS FORMAT.
- Chapters sent to M. Abdou must be camera-ready.
- UCLA WILL BE RESPONSIBLE FOR PRINTING AND DISTRIBUTION OF REPORT.