



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D. C. 20555

JUN 29 1987

MEMORANDUM FOR: Distribution

FROM: Thomas L. King, Acting Chief  
Advanced Reactor & Generic Issues Branch  
Division of Regulatory Applications

SUBJECT: MEETING WITH DOE TO REVIEW THE MODULAR HTGR PRELIMINARY  
SAFETY INFORMATION DOCUMENT (PSID) CHAPTER 13.1, THE  
EMERGENCY PLANNING BASIS REPORT, THE PRA DOCUMENT AND  
OTHER ISSUES

The subject meeting is the seventh in a series of meetings with DOE and its contractors to discuss NRC comments on the conceptual design for the modular HTGR. The meeting will be held on July 15, 1987 and July 16, 1987 in Room P-118 and will begin at 9:00 a.m. A preliminary agenda is enclosed. The review will consist of a discussion of PSID Chapter 13.1, "Position on Emergency Preparedness," the Emergency Planning Basis Document, and the PRA document. Other issues will include discussion of the role of the operator, and accidents beyond the design basis. Reviewers for this material, together with contractors from ORNL and BNL, should plan to meet in my office at 1:00 p.m. on July 14, 1987 to discuss their planned comments on the subject documents. If you have any questions please contact Pete Williams, the Project Manager (X29613).

A handwritten signature in cursive script that reads "Thomas L. King".

Thomas L. King, Acting Chief  
Advanced Reactor & Generic Issues Branch  
Division of Regulatory Application

Enclosure: As stated

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PRELIMINARY AGENDA

NRC/DOE MEETING ON MHTGR REVIEW  
JULY 15, 1987  
ROOM P-118

9:00 - 9:30	OPENING REMARKS	NRC, DOE, OTHERS
9:30 - 10:00	OVERVIEW: CHAPTER 13.1 AND EPBR <ul style="list-style-type: none"><li>- Objectives</li><li>- Background</li><li>- Comparison to Regulatory Precedence</li><li>- Approach to Emergency Planning Bases</li></ul>	GAT
10:00 - 10:30	LICENSING BASIS EVENTS FOR EMERGENCY PLANNING <ul style="list-style-type: none"><li>- Selection of LBEs for Emergency Planning</li></ul>	GAT
10:30 - 10:45	BREAK	
10:45 - 11:45	<ul style="list-style-type: none"><li>- Description of Emergency Planning Basis Events</li><li>- Radionuclide Sources, Release and Doses</li><li>- Response to NRC questions</li></ul>	GAT
11:45 - 12:45	LUNCH	
12:45 - 1:45	EMERGENCY PLANNING ZONE <ul style="list-style-type: none"><li>- Assessment of Plume Exposure Pathway Doses</li><li>- Selection of Plume Exposure Pathway EPZ</li><li>- Discussion of Emergency Planning Implications</li><li>- Response to NRC Questions</li></ul>	GAT
1:45 - 2:15	CONCLUSIONS	GAT
2:15 - 2:30	BREAK	
2:30 - 3:30	ROLE OF THE OPERATOR	NRC/DOE
3:30 - 3:45	BREAK	
3:45 - 5:00	GENERAL DISCUSSION (COULD INCLUDE COMMENT RESPONSES)	NRC/DOE

PRELIMINARY AGENDA

NRC/DOE MEETING ON MHTGR REVIEW  
JULY 16, 1987  
ROOM P-118

8:30 - 9:00	INTRODUCTION	NRC/DOE/OTHERS
9:00 - 10:00	OVERVIEW	GAT
	Objectives of Briefing Objectives of the MHTGR PRA Scope & Dimensions of the PRA Description of the PRA Document Conclusion from PRA	
10:00 - 10:15	BREAK	
10:15 - 12:15	PRA BACKGROUND AND METHODS	GAT
	Background & Previous Experience Selection of Initiating Events - External Events - Internal Initiator Plant System & Component and Fault Tree Development Frequency Assessment Methods including Human Actions Radiological Consequence Methods Uncertainty Assessment Methods	
12:15 - 1:15	LUNCH	
1:15 - 3:15	DETAILED PRA RESULTS	GAT
	Accidents within Licensing Bases - AOS - DBEs - EPBEs Accidents beyond Licensing Bases - Reactivity Transients - Conduction Cooldown w/o RCCS - Large Steam Ingress - Large Depressurization - Seismic Failure of Core Support - Large Failure of Cross Duct	GAT BNL/GAT CE/GAT CE/GAT
3:15 - 4:00	BREAK	
4:00 - 5:00	CONCLUSION AND DISCUSSION	

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