

AUG 21 1979

Task Action Plans A-8 and A-39

Docket Nos.: 50-358, 50-352/353, 50-367, 50-373/374,
50-387/388, (50-410), 50-322, 50-397

MEMORANDUM FOR: S. H. Hanauer, Director, Unresolved Safety Issues, NRR

FROM: C. J. Anderson, A-8 Task Manager, Containment Systems
Branch, DSS

APPLICANT: Members of Mark II Owners Group

SUBJECT: MEETING WITH MARK II OWNERS GROUP TO DISCUSS THE
MARK II LONG TERM PROGRAM (JULY 24 and 25, 1979)

Background

The purpose of this meeting was to review the total Mark II generic pool dynamic program including the program history, status of the supporting program, and identification of the generic and plant unique efforts required to complete the program. In addition, three tasks were discussed in greater detail; these included: Load Case 10, the extended 4T condensation oscillation tests and the Mark II program efforts to monitor related suppression system tests conducted outside the Mark II owners supporting program.

An attendance list and a copy of the meeting handouts are enclosed.

Summary

A summary of the significant topics discussed during this meeting is provided below.

1. Introduction and Program History

Mr. Hedgecock, Chairman of the Mark II Owner's Group presented an overview of the Mark II owners supporting program including identification of the domestic member utilities, objectives, organization, and identification of program changes in the past year. He also discussed the role of plant unique programs versus the generic Mark II program.

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Mr. Sobon of General Electric discussed the licensing background of the Mark II pool dynamic program including a description of the early history of the program and a description of the major elements of program (i.e., Phase I - Dynamic Forcing Function Report, Phase II - Design Analysis Report and Phase III - Supporting Program). He identified related key areas outside of the pool dynamic loads program that need NRC attention/resolution. These include: SRSS load combination, Load Combinations - Load Case 10 and Acceptance Criteria.

2. Mark II Program Status and Closure

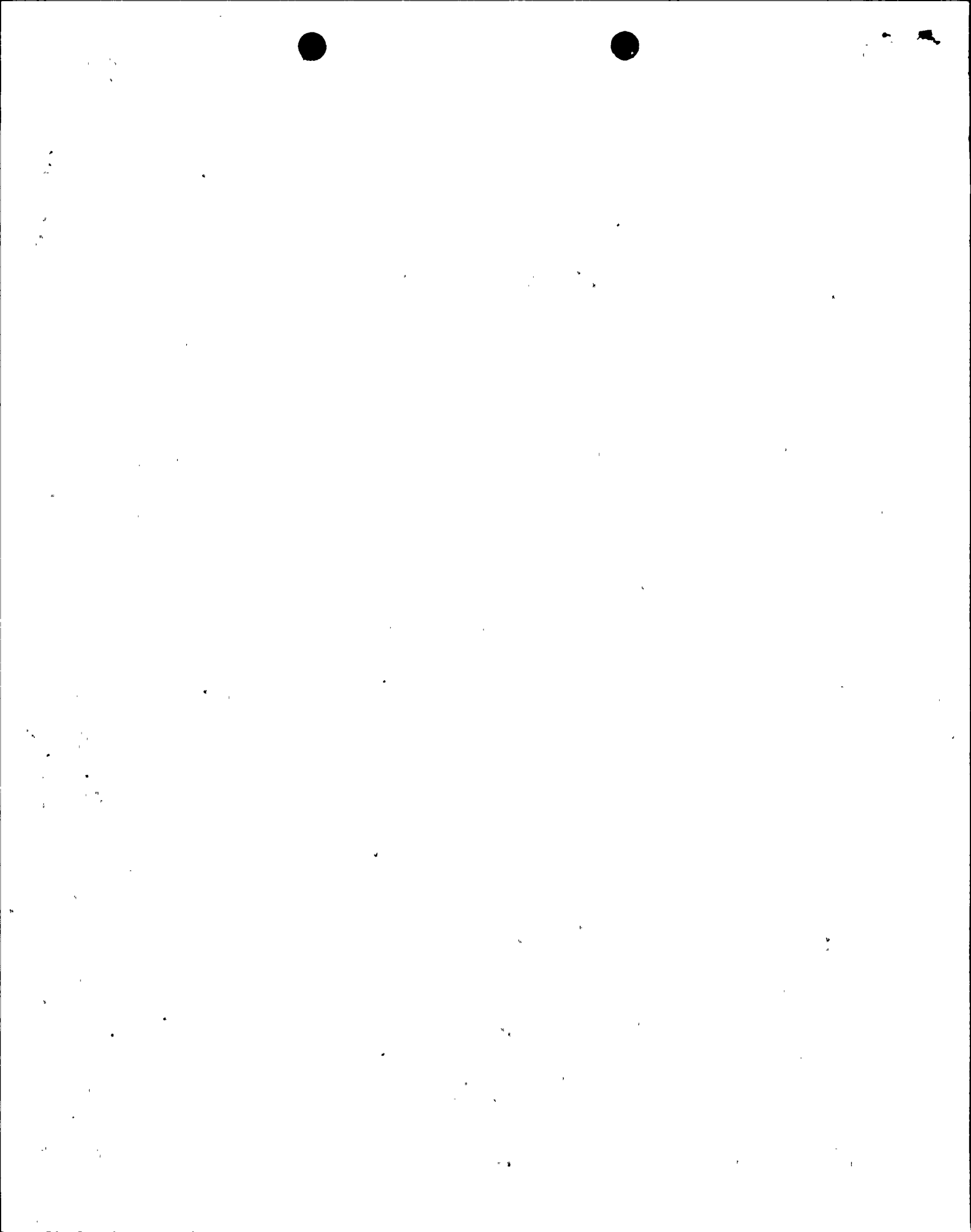
Mr. Smith of General Electric provided an overview of the tasks comprising the Mark II owners supporting program. This included identification of the generic tasks comprising the supporting program, interrelationship of the tasks, task documentation and status of the uncompleted tasks. The lead plant program is essentially complete. The supporting program which includes 101 tasks is about 70% complete. The generic SRV related tasks are scheduled for completion near the end of 1979. The LOCA and miscellaneous tasks extend through the end of 1980 and 1981 respectively.

Mr. Sobon of General Electric provided a summary of the Mark II owners positions regarding the staff's NUREG 0487 acceptance criteria for the lead and nonlead plants. The staff identified alternate criteria previously proposed by the Mark II owners where the staff has completed their review and is in agreement with the Mark II owners. These criteria include item I.A, I.B.1(b), I.B.3.(c), III.A.1 and III.A.2 in the criteria table included in the handouts. In addition the staff stated that an asymmetric pool swell load of 20% of the maximum bubble pressure would be acceptable. The documentation of the staff's evaluation of these alternate criteria is presently scheduled to be released in a supplement to NUREG 0487 in November 1979. A number of new tasks were identified by the Mark II owners wherein a plant unique program will be proposed to justify a plant unique exception to the generic criteria. The staff expressed the concern that these plant unique efforts were poorly defined at this point and that an attempt should be made to consolidate these programs to the maximum extent feasible to avoid delays resulting from limited NRC staff resources.

3. Load Case 10

The Mark II owners requested relief from the staff's lead plant criteria regarding the requirement for load case 10 evaluation of the containment structure, piping and equipment. This load case includes the combination of LOCA + SSE and SRV loads. The Mark II owners requested this relief

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on the grounds that this load combination is non-mechanistic. In addition, the probability for the spurious actuation of a single SRV is very small. The results of a study for a BWR-5 plant to consider the potential for the mechanistic actuation of an SRV following a DBA was presented by General Electric for a spectrum of breaks. The staff requested documentation of this study along with the results of a similar study for a BWR-4 design. Arguments were presented relating to the low probability of this load combination resulting from spurious SRV actuation. The staff requested that these arguments be documented along with the mechanistic study. The staff stated that the arguments presented appeared a reasonable basis for providing relief from our requirement that this load case be considered in the evaluation of piping systems.

4. Extended 4T CO Tests

Mr. Davis of General Electric presented a status report for the extended 4T condensation oscillation tests.

This presentation included a description of the instrumentation, test matrix, proposed data reduction, proposed data interpretation, construction status and program schedule. The staff expressed a concern related to the consideration given to vent mass flux and air content in establishing the test matrix. The staff's concern relates to the relatively high CO loads encountered in the FSTF tests during the high mass flux test. The Mark II owners agreed to provide the staff with supporting information used by the owners to establish the test matrix. The Mark II owners requested an accelerated review of this information by the staff and our consultants to avoid unnecessary delays in the test schedule.

5. World Test Monitoring Program

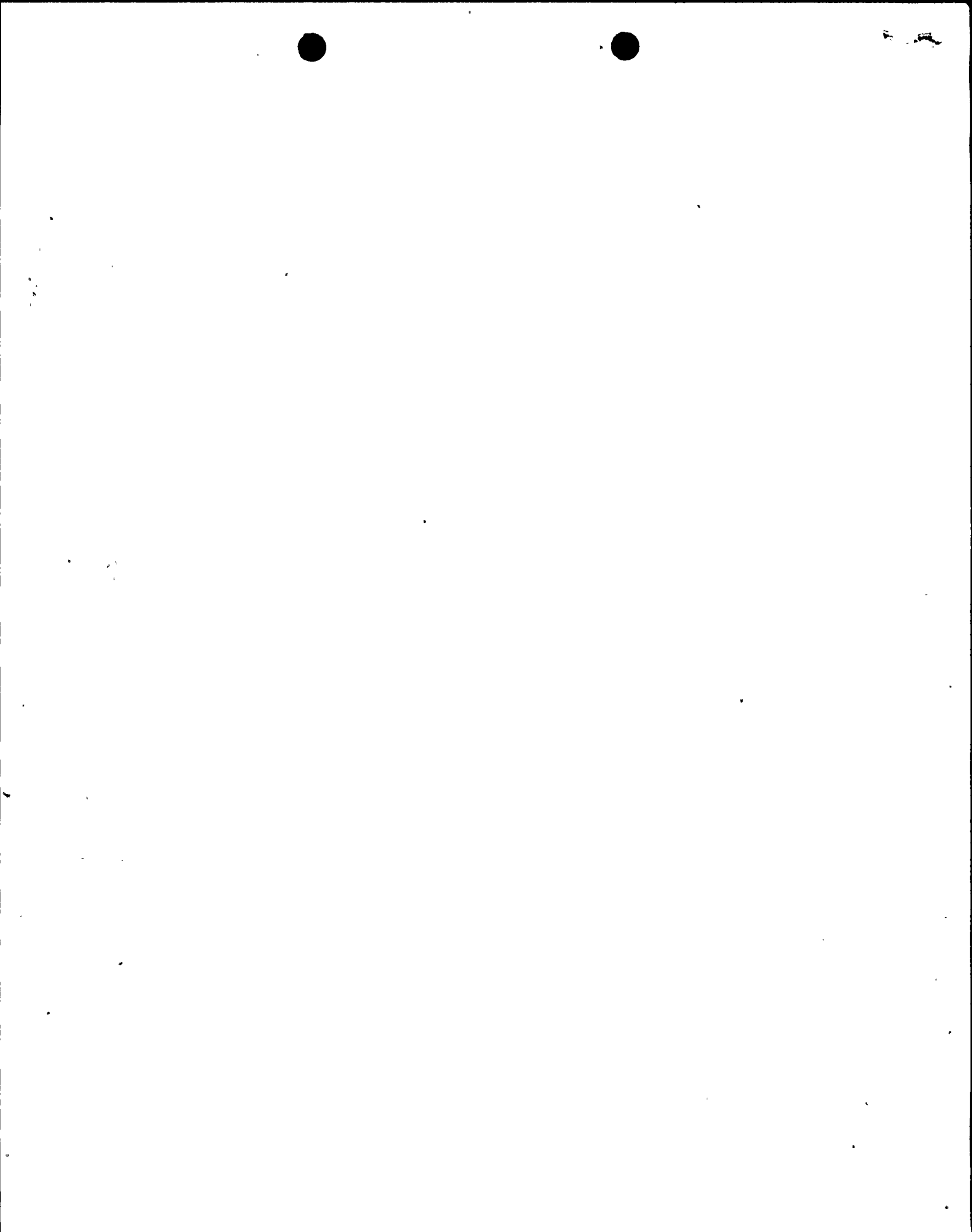
Mr. Davis of General Electric provided a status report of the Mark II owners program to monitor related pressure suppression LOCA and SRV tests conducted outside the Mark II program. This presentation included identification of the sources contacted, the type of information received and identification of site visits conducted.

Clifford Anderson, A-8 Task Manager
 Containment Systems Branch
 Division of Systems Safety

Enclosure:
 As Stated

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 See Attached Pages

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JUL 3 1979

Generic Tasks A-8 & A-39

Docket Nos. 50-358, 50-387, 50-352/353, 50-367, 50-373/374, 50-388, 50-410 and 50-322

MEMORANDUM FOR: S. H. Hanauer, Director, Unresolved Safety Issues Task Force
R. P. Denise, Acting Assistant Director for Reactor Safety, DSS

FROM: C. J. Anderson, A-8 Task Manager, Containment Systems Branch, DSS

SUBJECT: FORTHCOMING MEETING WITH REPRESENTATIVES FROM THE MARK II OWNERS GROUP

DATE: July 17, 18, 1979 (Tuesday, Wednesday)

TIME: 8:30 AM

LOCATION: Sheraton Inn and Motor Lodge, Lebanon, N.H.

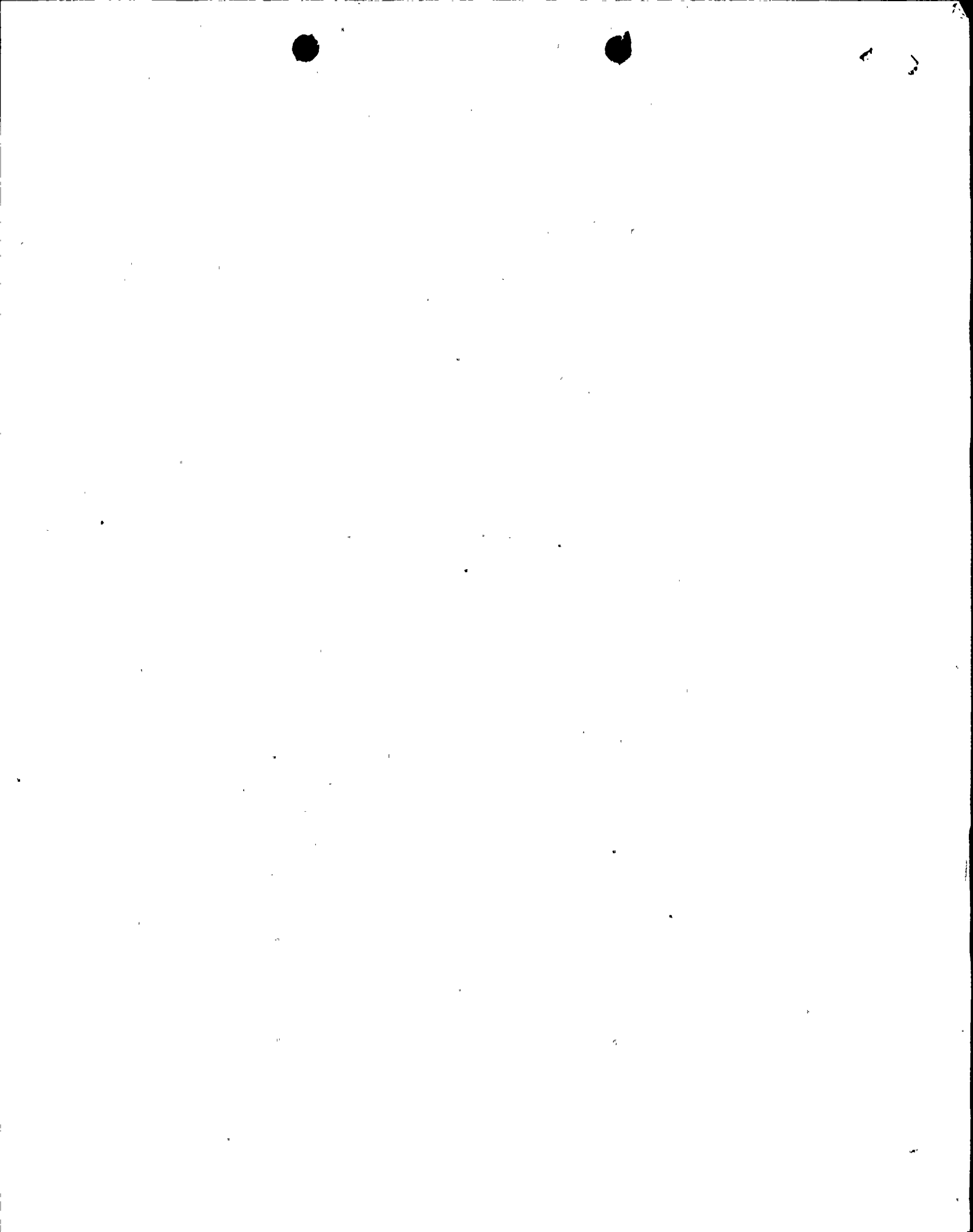
PURPOSE: Working meeting to discuss the Mark II Pool Dynamic Programs.

PARTICIPANTS: NRC
W. Butler, C. Anderson
NRC Consultants
J. Lehner, et. al.
MARK II Owners
P. Hedgecock, et. al.
General Electric
B. Sobon, et. al.

Clifford J. Anderson, A-8 Task Manager
Containment Systems Branch
Division of Systems Safety

Distribution:
See attached sheet

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- R. Fraley, ACRS
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