



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

JUL 21 1980

B-10

MEMORANDUM FOR: W. Butler, Chief, Containment Systems Branch, DSI  
FROM: M. Fields, B-10 Task Manager, Containment Systems Branch,  
DSI  
SUBJECT: FORTHCOMING MEETING WITH GENERAL ELECTRIC ON MARK III  
LOCA-RELATED POOL DYNAMIC LOAD CRITERIA

Date: July 30-31, 1980

Time: 9 a.m. to 5 p.m. each day

Location: Room 202, Building N  
General Electric Offices  
175 Curtner Avenue  
San Jose, CA 05125

Purpose: To discuss the Mark III LOCA-related pool dynamic load  
criteria.

Participants: NRC  
M. Fields, J. Kudrick

NRC Consultants

J. Ranlet, et al

General Electric

L. Steinert, et al

*Mel B. Fields*

Mel Fields, B-10 Task Manager  
Containment Systems Branch  
Division of Systems Integration

Enclosure:  
Proposed Agenda

Distribution:  
See Attached Sheets

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Proposed Agenda  
GE/NRC Meeting  
July 30-31, 1980

Subject: Mark III LOCA-related Pool Dynamic Loads

- I. Pool Swell
  - A. Effect of out-of-scale parameters
  - B. Pool swell velocity
  - C. Impact of new test data on design criteria
  
- II. Impact Loads
  - A. Duration of impact on structure
  - B. Effect of structure's natural frequency on response
  - C. Impact loads on gratings
  - D. Impact load criteria inside drywell (due to reflood)
  
- III. Condensation Oscillation Loads
  - A. Use of 1/3 scale data with no modifications
  
- IV. Chugging Loads
  - A. Scaling effects
  - B. Test parameters vs. design basis conditions
  - C. Statistical approach to determining design chug loads
  - D. Multivalent effects

Enclosure

- V. Submerged Structure Loads
  - A. Drag computation equations
  - B. Structures in immediate path of water jet
  - C. Theoretical model vs. actual conditions
  - D. Details of chugging submerged structure load definition
  
- VI. Pool Thermal Stratification
  - A. Test conditions vs. design basis conditions
  
- VII. Fluid Structure Interaction Effects
  - A. Effect on PSTF test data
  - B. Effect on Mark III Containments (especially free standing steel containments)
  
- VIII. Structures Over Pool
  - A. Type and arrangement of structures over the pool
  
- IX. Plant Modifications
  - A. Modifications made as a result of revised LOCA-related pool dynamic load criteria
  
- X. Load Specifications and Bases
  - A. Specific source for each load specification
  - B. Rationale for choosing the load specification source

Meeting Notice Distribution

Central Files

NRR R/F

GIB R/F

R. Mattson

F. Schroeder

K. Kniel

P. Norian

E. Eisenhut

R. Tedesco

J. Youngblood

A. Schwencer

R. Vollmer

J. Knight

R. Bosnak

F. Schauer

D. Ross

L. Rubenstein

W. Butler

J. Kudrick

F. Eltawila

T. Su

C. Grimes

C. Anderson

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R. Mattu

S. Fabic

J. Wilson

T. Lee

S. Hou

K. Kiper

R. Stark

D. Lynch

A. Bournia

D. Sells

I. Peltier

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