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MAR 13 1973

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Docket Nos. 50-416/417

APPLICANT: Mississippi Power and Light Company
 FACILITY: Grand Gulf Nuclear Station, Units 1 and 2

SUMMARY OF MEETING REGARDING FISSION PRODUCT TRANSPORT MODELING FOR
 THE GRAND GULF CONTAINMENT

At the applicant's request, a meeting was held on February 23, 1973, in Bethesda with a representative of the Grand Gulf A-E (Bechtel) regarding fission product transport modeling for the containment, following a design basis LOCA. The purpose of the meeting was to aid the applicant in designing the air circulation and discharge system for the upper enclosure building, and the penetration rooms. The applicant is to provide a description of the enclosure building and the air circulation system in an amendment to be filed in March 1973.

The discussion included consideration of potential bypass leak paths and exfiltration. The staff stated that adequate support will have to be provided by the applicant to establish that a negative pressure will be maintained in penetration rooms and in other small volumes. In addition, sensitivity studies of pressure differential (between the volume and the outside atmosphere) vs. flow rates from the containment into these areas will be required. Willoughby (Bechtel) expressed her concern that flow from these small volumes might be treated by the staff as bypassing the building mixing system and thus would have to be assumed to be exhausted directly (without holdup) through the filters; the staff stated that it will not be able to resolve this concern until the system description is filed. Duration of positive pressure periods in the secondary containment was discussed as a potential problem that would require resolution.

Original signed by
 Gerald Owsley

Gerald F. Owsley, Project Manager
 Boiling Water Reactors Branch 1
 Directorate of Licensing

Enclosure:
 Meeting Attendance

8806160095 880606
 PDR FOIA
 CONNOR88-91 PDR

OFFICE ▶	L:BWR-1.	L:BWR-1/C			
SURNAME ▶	GFOwsley:ld	WRButler			
DATE ▶	3/12/73	3/13/73			

B123

MAR 13 1973

MEETING ATTENDANCE
MISSISSIPPI POWER AND LIGHT COMPANY
GRAND GULF NUCLEAR STATION, UNITS 1 AND 2
FEBRUARY 23, 1973

Atomic Energy Commission

E. Adensam
W. Nischan
G. Owsley

Bechtel

N. Willoughby

OFFICE ▶						
SURNAME ▶						
DATE ▶						

G. LAINAS
P. TOOE
 CUDLIN

DIRECTORATE OF LICENSING
 REQUEST FOR SCHEDULE CHANGE

DATE: 3/23/73

TYPE OF CHANGE REQUEST:

- Information Item
- Applicant Action
- Lab Action
- Site Condition
- Technical Review Action
- Reactor Projects Action
- CGC Action
- Other

INITIATOR OF CHANGE REQUEST: Gerald F. Owsley ACTION CP-OL: CP

PLANT NAME: Grand Gulf Units 1 & 2 DOCKET NO.: 50-416/417

MILESTONE NUMBER & DESCRIPTION: 24-02 SE Input to L-PM from Aux. Power
24-04 SE Input to L-PM from Containment Systems
24-21 SE Input to L-PM from Reactor Systems
24- 9 LPM Completes Draft of Safety Evaluation
25 Safety Evaluation Issued.

REASON FOR CHANGE: Memo from R. Fraley (ACRS) indicated need for the staff's Safety Evaluation at least 4 weeks prior to the ACRS meeting because the meetings are now to be held as "open" meetings. This is in contrast to the 17-days previously required.

MILESTONE	TARGET DATE	ESTIMATED DATE	VARIANCE
24-02	12/12/73	12/10/73	-2
24-04	12/14/73	12/10/73	-4
24-21	12/14/73	12/10/73	-4
24- 9	12/28/73	12/19/73	-6
25	1/18/74	1/8/74	-8

TARGET DATE: _____ ESTIMATED DATE: _____ VARIANCE: _____

CURRENCE: (Project Organization)
 L PM: 90 BC: W3 AD: W3 DD: W3
 Date: 3/23/73 Date: 3/23/73 Date: 3/23/73 Date: 3/23/73

CURRENCE: (Technical Review Organization)
 E PM: _____ BC: _____ AD: _____ DD: _____
 Date: _____ Date: _____ Date: _____ Date: _____
 BC: W3 AD: W3 DD: W3
 Date: 3/23/73 Date: 3/23/73 Date: 3/23/73

FACT DATA: (to be Prepared by OPS)

TOTAL PROJECT VARIANCE		
* Target Prospective Decision Date	New Estimated Prospective Decision Date	Total Variance**

There should be no problem with such a schedule acceleration if the present TR schedule is met. Any delay in the review schedule by Containment Safety, Effluent Treatment, Core Performance, and/or Reactor Systems branches will probably delay the completion of these milestones.

*Fuel Load Date does not apply for CP Variance Analysis
 **Difference Between Fuel Load Date & New Estimated Prospective Decision Date

POSSIBLE PARTIES:

RECOMMENDED FOR APPROVAL: _____ DATE: _____
Asst. Dir. of Planning & Programs
 RECOMMENDED FOR APPROVAL: _____ DATE: 4/4/73
Director of Licensing
 APPROVED/DISAPPROVED: _____ DATE: _____
Director of Regulation

B/24

4/2/73

ANC - FRED CARMICHAEL

RE MARK III

ANC WILL BE MODIFYING CONCEPT LET
TO HANDLE THE MARK III CONFIGURATION,
THREE MAJOR MODES:

- (1) MULTIPLE LEVEL VENTS
- (2) HORIZONTAL VENT FLOW
- (3) REVERSE VENT FLOW

THIS WILL BE A ROUGH FIRST EFFORT
FOR MARK III CAPABILITY - ANCS FEELS
THAT ADAPTATION OF RELAP IV WOULD BE
MORE APPROPRIATE BUT COULD NOT BE
ACCOMPLISHED FOR ~ 1 YEAR.

CARMICHAEL NOTED THAT (1) MODELING OF THE
VENT CLEARING TRANSIENT WOULD BE COMPLICATED
IN THAT THE TIME TO COMPLETELY UNCOVER
A VENT WOULD BE SIGNIFICANT - IE. IT IS
NOT AN ABRUPT EXPULSION OF WATER (2) HE
WOULD LIKE TO SEE WHAT GE HAS DONE
ON THIS PROBLEM. (I TOLD HIM WE PROBABLY
WOULDN'T HAVE INFORMATION FROM GE FOR
SEVERAL MONTHS)

— I PROMISED TO SEND CARMICHAEL THE
LATEST AMENDMENT ON GRAND GULF - #3

B125

1/3/73 TELECON
AND F. CARMICHAEL
RE: MARK III

- (1) CARMICHAEL REQUESTED GRAND GULF PSAR SECTION 5.5.5, RESIDUAL HEAT REMOVAL SYSTEM.
- (2) CARMICHAEL ESTIMATED THAT HE WOULD HAVE A ROUGH IDEA OF THE EQUATIONS TO BE USED TO MODEL MARK III IN ABOUT TWO WEEKS. I TOLD HIM THAT WE WOULD LIKE TO HAVE HIM COME TO BETHESDA AND REVIEW THE ANALYSIS AT THAT TIME.