

Docket Nos. 50-317
and 50-318

September 7, 1985

MEMORANDUM FOR: Edward J. Butcher, Acting Chief
Operating Reactors Branch No. 3, DL

FROM: David H. Jaffe, Project Manager
Operating Reactors Branch No. 3, DL

SUBJECT: SUMMARY OF SEPTEMBER 3, 1985 MEETING WITH BALTIMORE GAS
AND ELECTRIC COMPANY (BG&E) TO DISCUSS CHANGES TO
COMMITMENTS FOR CONTROL OF HEAVY LOADS AT CALVERT CLIFFS
UNITS 1 AND 2

On September 3, 1985, representatives from BG&E and the NRC staff met in Room P-118 of the Phillips Building in Bethesda. A list of attendees is shown in Enclosure 1. The purpose of the meeting was to discuss the control of heavy loads at Calvert Cliffs Units 1 and 2.

BG&E indicated their desire to change the in-containment path for a critical load lift at Calvert Cliffs. The load in question, a reactor coolant pump motor, had been previously moved at Calvert Cliffs Unit 1 along a load path consistent with commitments reflected in the NRC safety evaluation dated May 22, 1983. Use of this load path resulted in a significant expenditure of manpower to clear a path and also excessive traversing of the crane trolley. BG&E indicated their desire to move a reactor coolant pump motor at Calvert Cliffs Unit 2 from its installed position, directly over the reactor vessel (with the vessel head in place) to a set-down area adjacent to the equipment hatch. The NRC staff indicated that a precedent existed for review and approval of alternate critical load paths, including paths over reactor vessels.

BG&E made a presentation regarding their proposed evaluation of an alternate critical load path. Enclosure 2 is an outline of this presentation. Following the presentation, the NRC and BG&E agreed that a submittal would be required and should be made promptly in order to allow for its consideration by the NRC for use during the Unit 2, Fall '85, refueling outage.

David H. Jaffe, Project Manager
Operating Reactors Branch No. 3, DL

Enclosures:
As stated

cc w/enclosures:
See next page

ORB#3,DL
DJaffe:ef

9/17/85

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Baltimore Gas & Electric Company

Calvert Cliffs Nuclear Power Plant

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Enclosure 1
List of Attendees

NRC

D. Jaffe
A. Singh

BG&E

C. Butler
B. Montgomery

Bechtel

S. Close

Safety Evaluation for Alternate Load Path
RCP Motor

I. Introduction

- A. Statement of problem and need for deviation from current load handling guidelines
- B. Description of load
- C. Summary of RCP motor lift using current CCNPP load handling guidelines
- D. Description of alternate load path
- E. Summary of approach for evaluation

II. Provisions for Load Handling Reliability

- A. Summary of NUREG-0612 reviews and program implementation
- B. Design Features
 - 1. Crane
 - a. Structural
 - b. Mechanical
 - c. Electrical
 - 2. Lifting rig
- C. Administrative Provisions
(per CCNPP load handling manual)
- D. Summary (Conclusions regarding relative likelihood of drop: current vs. alternate load path -qualitative)

III. Discussion of Potential Consequences

- A. Introduction (assessment approach, status of plant)
- B. Equipment under alternate load path
 - 1. Safe Shutdown Equipment
 - 2. Reactor Coolant System (vessel)
- C. Drop on safe shutdown equipment (damage to redundant trains?)
- D. Drop on reactor vessel head
 - 1. Potential for uncovering fuel (RCS leakage > 44 gpm?)
 - 2. Offsite dose consequences (Potential for fuel damage?)
 - a. Quantify # of affected assemblies (evaluate protection afforded by head)
 - b. Discussion of RCS as a release boundary
 - c. Discussion of containment as a release boundary
 - d. Discussion of potential offsite releases
 - 3. Discussion of shutdown margin

IV. Conclusions

MEETING SUMMARY DISTRIBUTION

Licensee: Baltimore Gas & Electric Company

*Copies also sent to those people on service (cc) list for subject plant(s).

Docket File

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NRC Meeting Participants:

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