

Date: APR 23 1975

Serial No.: IE-C&O-75-6

TRANSFER OF LEAD RESPONSIBILITY

To: R. C. DeYoung, Assistant Director for Light Water Reactors,
Group 1, RL

Subject: POSSIBLE DESIGN CHANGES IN THE MARK II CONTAINMENTS AT
THE LIMERICK AND THE SUSQUEHANNA FACILITIES - DOCKET
Nos. 50-352/353 AND 50-387/388

Responsible Branch Chief: K. V. Seyfrit

Description of Item Requiring Resolution:

The two licensees of these facilities have notified IE, in writing, of possible design changes to be made in order to accommodate the loads and effects produced during safety/relief valve and LOCA blow-down discharges into the suppression pool. The phenomena associated with these events have been under study by General Electric as part of the testing program to validate the Mark III containment concept.

The specific areas of concern are the potential increased loads on the structures and equipment located above the water level in the suppression pool, the loads on the vertical vent pipes, the loads on the pool boundaries and the loads on the submerged components.

The licensee for the Susquehanna facility has suspended all concrete placement and other critical activities related to the containment until any necessary design changes have been identified. The licensee for the Limerick facility is reviewing the uncompleted portions of the containment and internal structures associated with these phenomena and will delay work if its completion would preclude implementation of any necessary modifications.

Recommendations and Proposed Course of Action:

1. NRR will, through the Licensing Project Managers, and the technical support of the Division of Technical Review, obtain the information from General Electric which describes the phenomena involved and the resulting conditions which will be imposed on the structures, systems and components responding to the events.
2. NRR will obtain information from these licensees regarding any necessary design changes resulting from the definition of any

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new design conditions imposed by General Electric. In addition, NRR will complete this action for the remaining licensees who are utilizing the BWR Mark II Containment.

3. NRR will review and evaluate the necessary design changes and the method of integrating them into the currently approved designs and the currently partially constructed portions of the containments and internal structures. In addition, NRR will complete this action for the remaining licensees who are utilizing the BWR Mark II Containment.
4. IE will verify adherence to any modifications imposed by NRR in the requirements for the construction of these facilities and others identified by NRR.

References:

1. Letter from Robert T. Carlson, Chief, FC&ES Branch, IE:I to H. D. Thornburg, Chief, FS&E Branch, IE:HQ, dated April 1, 1975.
2. Letter from N. W. Curtis, Vice President - Engineering and Construction, Pennsylvania Power & Light Company to James P. O'Reilly, Director, IE:I, dated April 4, 1975 reporting information in accordance with 10 CFR 50.55(e).
3. Letter from V. S. Boyer, Vice President, Philadelphia Electric Company to Donald F. Knuth, Director, IE, dated April 4, 1975 reporting information in accordance with 10 CFR 50.55(e).

Concurrence:

Bernard H. Grier
B. H. Grier, Assistant Director for Construction & Operations, IE

R. C. DeYoung
R. C. DeYoung, Assistant Director for Light Water Reactors, Group 1, RL

4/21/75
Date

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cc: D. F. Knuth, IE
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