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TO: Mr. John F. Stolz

FROM: General Electric Company, San Jose, California, L. J. Sabon

DATE OF DOCUMENT: 10/25/77

DATE RECEIVED: 11/7/77

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GENERAL ELECTRIC TOPICAL REPORT NEDO 23617
"MARK II LEAD PLANT TOPICAL REPORT: POOL BOUNDARY
AND MAIN VENT CHUGGING LOAD JUSTIFICATION," DATED
JULY, 1977

1) NEDO 24013, "Results of Pressure Suppression Systems Tests Employed by GE, Series No. 2," dated June, 1977
2) NEDO 24014, "Calculation of the Spatial Pressure Distribution When Several Condensation Events are Superimposed," dated June, 1977
3) NEDO 24015, "Load Predictions for the Pressure Suppression System in Two BWR Plants," dated June, 1977
4) NEDO 24016, "Pressure Oscillations Due to Condensation of Steam in a Water Pool," dated June, 1977
5) NEDO 24017, "Influence of Backpressure During Chugging," dated June, 1977
6) NEDO 23627, "Loads on the Vents' Struts Due to Condensation of Steam in a Water Pool," dated June, 1977

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GENERAL ELECTRIC

NUCLEAR ENERGY

SYSTEMS DIVISION

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NUCLEAR ENERGY
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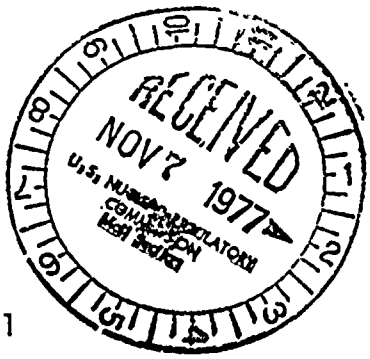
MFN-413-77

October 25, 1977



U. S. Nuclear Regulatory Commission
Division of Projects Management
Office of Nuclear Reactor Regulation
Washington, D. C. 20555

Attention: Mr. John F. Stolz, Chief
Light Water Reactors Branch No. 1

Gentlemen:

SUBJECT: GENERAL ELECTRIC TOPICAL REPORT NEDO 23617 "MARK II LEAD PLANT TOPICAL REPORT: POOL BOUNDARY AND MAIN VENT CHUGGING LOAD JUSTIFICATION," DATED JULY, 1977

References:
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5) NEDO 24017, "Influence of Backpressure During Chugging," dated June, 1977
6) NEDO 23627, "Loads on the Vents' Struts Due to Condensation of Steam in a Water Pool," dated June, 1977
7) Letter with report, "General Electric Topical Report NEDE 23617-P, Mark II Lead Plant Topical Report: Pool Boundary and Main Vent Chugging Load Justification, dated July, 1977," to O. D. Parr from L. J. Sobon, dated August 15, 1977

Seventy (70) copies of the subject report (NEDO 23617) are being provided by General Electric for the Mark II Owners Group for your review as part of the Mark II Containment Supporting Program. This report, which is the non-proprietary version of NEDE 23617-P provided to you earlier this year (reference 7), provides the justification for the chugging loads used in Mark II Containment Design Assessment.

Also included with this submittal are ten (10) copies each of the non-proprietary version of the documents listed in Appendix 1 of NEDO 23617 (references 1 through 6). The proprietary version of these documents was submitted with NEDE 23617-P (reference 7).

Any questions regarding this report should be directed to L. H. Frauenholz, the Mark II Containment Licensing Engineer, (408) 925-2623.

Sincerely,

L. H. Frauenholz for

L. J. Sobon, Manager
BWR Containment Licensing
Containment Improvement Programs

LJS:at/128-129

Enclosures: 130

cc: C. J. Anderson (NRC)
H. C. Brinkmann (Mark II Owners Group)
L. S. Gifford (GE Bethesda)
I. A. Peltier (NRC)
R. L. Tedesco (NRC)
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