

GENERAL ELECTRIC

NUCLEAR POWER
SYSTEMS DIVISION

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50-447

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

Attention: Olan D. Parr, Chief
Light Water Reactor Branch No. 3

Gentlemen:

SUBJECT: GENERAL ELECTRIC REPORT NEDO-21471-01, "ANALYTICAL MODEL FOR ESTIMATING DRAG FORCES ON RIGID SUBMERGED STRUCTURES CAUSED BY LOCA AND SAFETY RELIEF VALVE RAMSHEAD AIR DISCHARGES - SUPPLEMENT FOR X-QUENCHER AIR DISCHARGES"

Twenty copies of the report NEDO-21471-01, "Analytical Model for Estimating Drag Forces on Rigid Submerged Structures Caused by LOCA and Safety Relief Valves Ramshead Air Discharges - Supplement for X-Quencher Air Discharges" are being provided for your information. The report is referenced in Appendix 3B, entitled "Containment Loads", of the Final Design Approval General Electric Standard Safety Analysis Report (Docket Number FTN-50-447). The enclosed report describes a method for estimating drag forces on rigid submerged structures due to air bubble oscillations resulting from a safety relief valve discharge through an X-quencher.

Any questions on this report should be directed to Mr. L. D. Steinert (408) 925-2637.

Very truly yours,

S. J. Stark for R. H. Buchholz

R. H. Buchholz, Manager
BWR Systems Licensing
Safety and Licensing Operation

RHB:rf/723

Enclosure

cc: L. S. Gifford (GE-Bethesda)
H. Chau (Mark II Owners Group)
J. Kudrick (NRC)
W. Butler (NRC)

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