

GENERAL ELECTRIC

NUCLEAR ENERGY BUSINESS OPERATIONS
GENERAL ELECTRIC COMPANY • 175 CURTNER AVENUE • SAN JOSE, CALIFORNIA 95125

MC 682, (408) 925-1913

MFN-110-85
GBS-065-85

September 5, 1985

U. S. Nuclear Regulatory Commission
Office of Inspection Enforcement
Washington, D.C. 20555

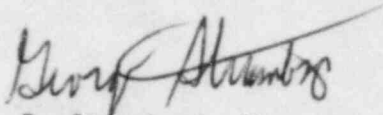
Attention: Mr. C. E. Rossi

Gentlemen:

SUBJECT: TELECON: GERMANE-TO-SAFETY-ENVIRONMENTAL QUALIFICATION FAILURE
OF RELIANCE CLASS RH AC MOTORS

Please find the attached memo of Telecon to you of August 30, 1985. The Telecon provided information on Reliance Class RH AC motors obtained during environmental qualification testing.

Very truly yours,


G. B. Stramback, Manager
Safety Evaluation Programs

GBS:csc/I08305

Attachment

cc: L. S. Gifford, GE - Bethesda
J. Stuart, NRC - Bethesda

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MEMO OF TELECON

DATE: August 30, 1985
TIME: 8:05 a.m.
PERSON CALLING: G. B. Stramback, M. C. Shirley
PERSON CALLED: C. E. Rossi (NRC-I&E)
(Telephone Number 301-492-4193)
SUBJECT: ENVIRONMENTAL QUALIFICATION FAILURE OF
RELIANCE CLASS RH AC MOTORS

Ernie Rossi was called in order to inform the NRC of a condition determined to be not reportable, but considered to be germane to safety. This conclusion is based upon GE completing its evaluation as to reportability under 10CFR Part 21. This information is being communicated to the NRC because GE is not aware of the requirements of other applications of these valves in the industry.

GE identified the sequence of previous communications to the NRC and that I&E has been following this issue.

General Electric has experienced 3 test anomalies of the Reliance Class RH AC motors during the environmental qualification testing of the Limitorque fast acting SB-3-150 valve motor operator, for the Gulf States Utilities (GSU) and Niagara Mohawk (Nine Mile Point 2) customers.

These test anomalies which have occurred with the SB-3-150 operator have raised concern with the long term (100-day) availability of valve operator motors with magnesium rotors (such motors are made for use in valve operators where high horsepower and high torque are required). These NUREG-0588 tests have been performed at environmental conditions enveloping plant specific valve applications which may be more severe than the design basis for other plant specific valve applications.

Upon the initial occurrence of a test anomaly GE performed a systems evaluation to determine the implications of these environmental qualification test anomalies on overall plant safety. GE has also been in contact with the NRC over the evaluation of the Limitorque test program and GSU has filed with the NRC a 10CFR 50.55(e) notification of the initial anomaly. It has been concluded based on a systems evaluation approach that a substantial safety hazard does not exist for BWR plants. However, in order to eliminate any concern for the continued long term cooling of the core, GE has identified some recommended actions. These actions have been transmitted to BWR Owners/Operator via Service Information Letter No. 425. The system evaluation was conservative in that it assumed all motor operated valves required for safe shutdown were of the family of valves having magnesium rotors. This evaluation determined that no safety hazard existed for the entire BWR product line, BWR 1 through 6.

GENERAL ELECTRIC COMPANY
NUCLEAR SYSTEMS TECHNOLOGY OPERATION
SAFETY AND LICENSING OPERATION

TELECOPIER TRANSMITTAL COVER SHEET

DATE: 9/5/85

TIME: 10:30 AM

PLEASE DELIVER THE FOLLOWING PAGES TO:

NAME: CE Rossi

COMPANY AND LOCATION: NRC I&E

TELECOPY NUMBER: 8* 301-492-8185

VERIFICATION NUMBER: _____

NUMBER OF PAGES: Cover + 2 pages

THIS TELECOPY IS BEING SENT BY:

NAME/EXT. GB. Strambach 408-925-1913

*called sec @ Ennie apt.
at 10:30 10/20 9/5/85*