



NIAGARA MOHAWK POWER CORPORATION / 300 ERIE BOULEVARD WEST, SYRACUSE, N.Y. 13202 / TELEPHONE (315) 474-1511

December 21, 1983
(7843)

Mr. R. W. Starostecki, Director
U.S. Nuclear Regulatory Commission
Region I
Division of Project and Resident Programs
631 Park Avenue
King of Prussia, PA 19406

Re: Nine Mile Point Unit 2
Docket No. 50-410

Dear Mr. Starostecki:

Enclosed is an interim report for the problem concerning HEA Relays manufactured by General Electric. This problem was reported via telecon to Mr. R. Gallo of your staff on November 21, 1983.

Very truly yours,

C. V. Mangan
Vice President
Nuclear Engineering & Licensing

CVM/TL:ja
Enclosure

xc: Director of Inspection and Enforcement
U.S. Nuclear Regulatory Commission
Washington, DC 20555

Mr. R. Gramm, Resident Inspector

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NIAGARA MOHAWK POWER CORPORATION
NINE MILE POINT - UNIT 2
DOCKET NO. 50-410

Interim Report for a Problem
Concerning HEA Relays

Description of the Problem

General Electric letter dated October 14, 1983 (enclosed) stated that some of the HEA relays manufactured between September 1980 and August 1983 may malfunction due to the reasons explained in this letter. We are investigating the matter to determine if the relays in question have been supplied to Nine Mile Point - Unit 2. A final report will be submitted by July 31, 1984.

GENERAL ELECTRIC

APPARATUS AND ENGINEERING SERVICES OPERATIONS
GENERAL ELECTRIC COMPANY • 3537 JAMES STREET, P.O. BOX 4841 • SYRACUSE, NEW YORK 13221

October 14, 1983

cc: E. Schaible

David Kims
Operations A4
NIAGARA MOHAWK POWER CORPORATION
300 Eric Blvd. West
Syracuse, NY 13202

SUBJECT: SERVICE ADVICE 721PSM-175.1 HEA RELAY MISOPERATION

Gentlemen:

We have received a customer report of an HEA relay mis-operation which happened when the panel door, on which the relay was mounted, was closed.

Our investigation of the returned unit has shown that this malfunction is the result of a combination of tolerances, with an extremely low probability of occurring, and is linked to a minor design change which was implemented in October 1980. This change was made to increase the relay's capability to operate at reduced voltages. The re-designed relay was extensively tested at the time because this change would tend to reduce the margin against mis-operation due to shock and vibration. A test program was conducted which verified that the re-designed relay met the published seismic capability.

Key tolerances will be changed to correct the condition reported by the customer, and we have instituted a mechanical trip test in our factory. A series of tests performed to correlate seismic capability with the force required to trip the relay has been used to establish the factory force limit.

We recommend that all HEA relays manufactured between September 1980 and August 1983, corresponding to date codes KS, LS, MS, AT through MT, AU through MU, and AW through LW, should be checked to determine the force, applied at the armature, to trip the relay. This force should be checked by applying a measurable force perpendicular to the armature at the armature rivet above the pole piece as shown in Figure 1. (Attached)

Any relay requiring a force less than 500 grams or 1.1 pounds should be considered out of specification.

RECEIVED

OCT 17 1983

SYSTEM METER & TEST



GENERAL ELECTRIC

It is recommended that any HEA relay, with the above date codes, that does not meet the above specification be replaced.

In the event that your test discloses such a relay, please contact your General Electric sales office to order a new relay on a no charge basis. In and out costs are not to be charged to the General Electric Company.

Requests for replacement HEA relays should include:

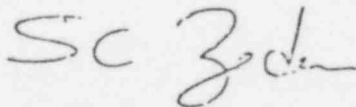
1. Catalog number and date code of the HEA relay.
2. Requisition number and purchase order under which the original relay was furnished.
3. Nuclear damage waiver for any relay ordered for installation at any nuclear site.

This offer will remain available until September 30, 1984.

On non-IE applications, replacement relays may be shipped to customers with two "T" stamps adjacent to the date code sticker. This second "T" stamp is a verification that warehouse stocked relays were re-checked to make sure they were built to specification.

If you have any questions, please feel free to contact me.

Sincerely,



Stephen C. Zeder
Acting Service Supervisor

SCZ/dlk
Attachment

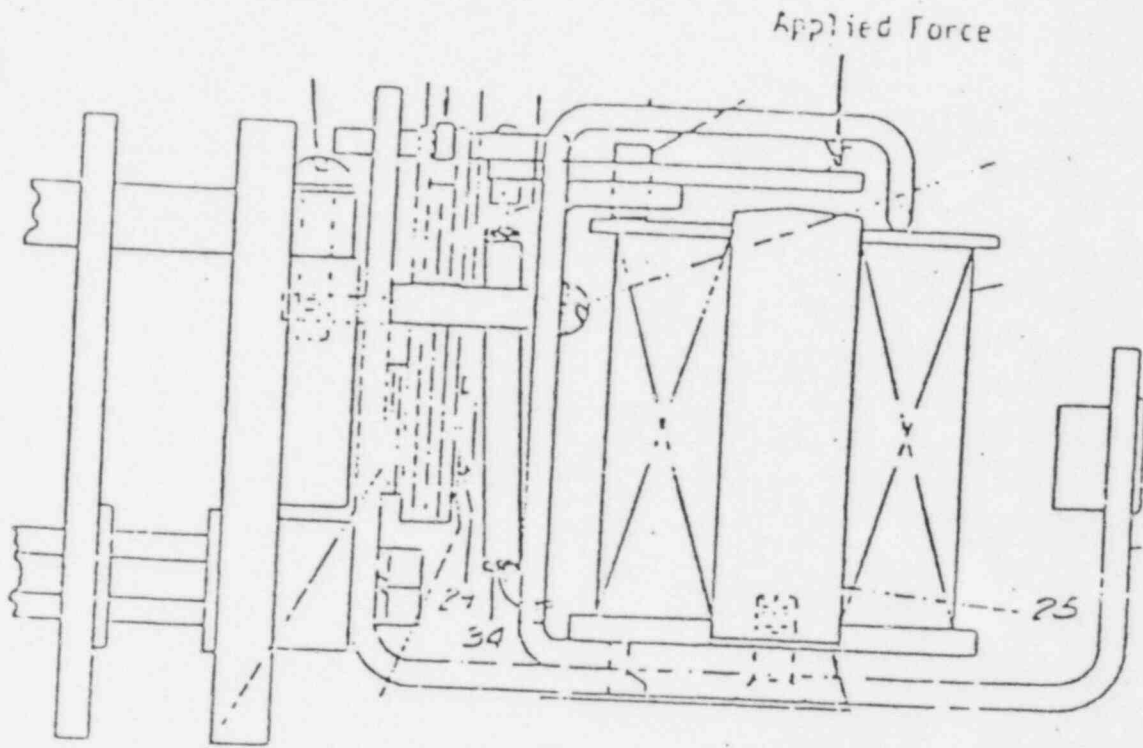


Figure 1