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MURLEY,T.E. Office of Nuclear Reactor Regulation, Director (Post 870411

SUBJECT: Part 21 rept re potential matl defect of SMA type torque switches supplied by Limitorque during late 1960s.

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May 31, 1990

U.S. Nuclear Regulatory Commission
Document Control Desk
Attention: Dr. Thomas E. Murley
Office of Nuclear Reactor Regulation
Washington, D.C. 20555

Subject: Notification of 10CFR, Part 21
R.E. Ginna Nuclear Power Station
Docket No. 50-244
Licensee No. DPR-18

Dear Dr. Murley:

Rochester Gas and Electric is submitting the attached 10CFR, Part 21 Evaluation and Notification. The notification concerns a potential material defect of SMA type torque switches supplied by Limitorque during the late 1960's.

One hundred seven (107) of one hundred eight (108) motor operated valves (MOV) installed at R.E. Ginna Nuclear Power Plant, actuator wiring configurations were inspected in conjunction with an on-going Electrical Control Configuration Drawing Upgrade Project. Twenty-six had SMA-type torque switches installed. The SMA-type torque switch is a black fibrous, laminated, phenolic material. Ten of the twenty-six switches demonstrated loose one-quarter inch socket head mounting screws and nine of the twenty-six demonstrated loose wire termination bolts.

None of the valves with the loose torque switch bolting demonstrated operability problems during operations or testing. The cause of the loose bolting appears to be consolidation or compression of the fibrous material and/or vibration.

Specific information regarding failure identification and corrective action taken are detailed on the enclosed Attachment 1. Should further information be required, please contact Mr. Thomas Marlow, Superintendent of Ginna Support Services at 315/524-4446.

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Very truly yours,

Robert C Mecredy for

Robert E. Smith
Senior Vice President
Production & Engineering

xc: Mr. Thomas T. Martin
Regional Administrator
U.S. Nuclear Regulatory Commission
Region 1
475 Allendale Road
King of Prussia, PA 19406

Ginna Station Senior Resident Inspector

Attachment I

Name: Robert E. Smith
Title: Senior Vice President, Production & Engineering
Facility: R.E. Ginna Nuclear Power Plant
Docket No.: 50-244

Basic Component: Safety Related Motor Operated Valve (MOV) Actuators
Supplier: Limitorque Corporation

Nature of Defect: Loose torque switch mounting socket head bolts and/or wire termination bolts associated with SMA-type torque switches found on 19 of 26 valve actuators inspected for wiring configuration. Twenty-six of 107 MOV actuators installed at R.E. Ginna Nuclear Power Plant contained SMA-type torque switches. Torque switch material is a black, fibrous, laminated phenolic material.

Date Obtained: This information was developed during the 1989 and 1990 refueling outage inspections for Electrical Controlled Configuration Drawing Upgrade Project.

Basic Components Affected:

Fourteen safety related MOV actuators (five were non-safety related).

Corrective Action: Immediate corrective action was to tighten the loose bolting. The torque switches are being replaced as scheduled, during a Preventive Maintenance Actuator Refurbishment Program. MOV actuators are now on a three year preventive maintenance inspection program for EQ operators, five year preventive maintenance inspection program for safety-related but not EQ and ten year preventive maintenance inspection program for non-safety related actuators.

Responsible Individual for Action:

Thomas A. Marlow, Superintendent Ginna Support Services

Attachment I

(continued)

Time to Complete Action:

All loose bolting has been tightened or replaced during refurbishment.

Advice Related to Defect:

Loose bolting had not progressed to a degree that demonstrated an impact on operability at time of defect identification. Torque switch material is a type supplied with 1967 vintage actuators.