



Because nothing else works better.

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December 16, 1993

Document Control Desk
United States Nuclear Regulatory Commission
Washington, D.C. 20555

Subject: Notification of Possible Anomaly for
Namco Controls' Limit Switches (TB9302)

Gentlemen:

Prior to installation, Pacific Gas & Electric performed a test on a prewired EA180-31602 Namco Controls Limit Switch. During this test, the normally open contacts did not close when the switch was actuated.

The above limit switch was returned to Namco Controls under a Return Goods Authorization number RGA 013511.

Pacific Gas & Electric was notified of Namco Controls findings.

The attached "Technical Bulletin TB9302" will be issued to all foreign and domestic Nuclear Power Generation Plants which contain the subject switches by December 23, 1993.

Any questions on this matter should be directed to Mr. E. Roob at Namco Controls.

Very truly yours,

Jon Slaybaugh
President

Attachments

cc: H. Everson - Vice President of Engineering
B. Pettrey - Q.A. Manager/Newton N.C.
E. Roob - Marketing Manager
Nuc-C file
Nuc-M File

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TECHNICAL BULLETIN

NOTIFICATION OF A POSSIBLE OPERATIONAL
ANOMALY FOR LIMIT SWITCHES**PURPOSE:**

The purpose of this Notice is to inform the Nuclear Power Plant Operators and others involved in the operation and maintenance of Namco Controls' Limit Switches of a potential problem which may result from the wiring of limit switches.

DESCRIPTION:

During testing, prior to installation, of a Namco Controls' EA180-31602 at Pacific Gas & Electric, the limit switch would not operate properly. During actuation of the switch, the normally open contacts would not close.

NAMCO CONTROLS' INVESTIGATION:

A comprehensive evaluation by Engineering and Quality Assurance was performed on the returned Namco Controls' Limit Switch.

The above analysis found a small piece of wire insulation wedged under a stationary contact in the contact block. It appears, this insulation originated from the striping of receptacle lead wires during assembly.

CONCLUSION:

Based on this review, the loose insulation was caused by human error during the manufacturing process and was not caused by a design defect.

Namco Controls believes, based on the above information and past history, this anomaly can be considered an isolated condition.

Namco Controls instituted a training session to emphasize the importance of inspecting switches for foreign matter.

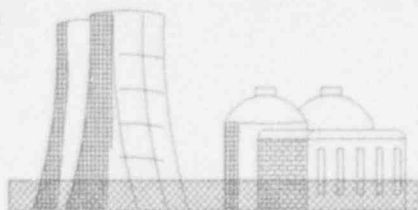
RECOMMENDATION:

It is Namco Controls' recommendation that extreme caution should be exercised during the wiring and installation of limit switches to eliminate the possibility of foreign objects from being left inside the limit switch.



Mentor, Ohio USA

FAX MESSAGE



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December 16, 1993

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To: Document Control Desk, NRC Fax 301-492-8187

From: Jon Slaybaugh

Subject: Notification of Application Anomaly

Please see the attached letter and Namco Controls' TB9302.