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August 22, 1988

U. S. Nuclear Regulatory Commission
Office of Inspection and Enforcement
Region V
1450 Maria Lane, Suite 210
Walnut Creek, CA 94596-5368

Attention: Mr. John B. Martin, Regional Administrator

Dear Sir:

Subject: Docket No. 50-362
San Onofre Nuclear Generating Station
Unit 3

References: 1) NRC Bulletin 88-03, "Inadequate Latch Engagement in HFA Type Latching Relays Manufactured by General Electric (GE) Company," dated March 10, 1988

By Reference 1, the NRC requested that Southern California Edison (SCE) perform inspections of GE latching type HFA relays for inadequate latch engagement and insufficient latch spring tension that are installed in the plant and in spares. SCE was requested to complete the actions described in reference 1 no later than restart from the next plant refueling outage. Provided as an enclosure are the results of SCE's inspection of the GE latching type HFA relays installed in Unit 3 and in spare parts.

Respectfully submitted,

By: M O Medford
M. O. Medford
Manager of Nuclear Engineering
and Licensing

Subscribed and sworn to before me this
22nd day of August, 1988.

C. Sally Sebo
Notary Public in and for the County of
Los Angeles, State of California

OFFICIAL SEAL
C. SALLY SEBO
Notary Public-California
LOS ANGELES COUNTY
My Comm. Exp. Apr. 20, 1990

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Enclosures

cc: U. S. Nuclear Regulatory Commission, Document Control Desk
F. R. Huey, NRC Senior Resident Inspector, SONGS 1, 2 and 3

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RESPONSE TO NRC BULLETIN 88-03

A. SCE Report on GE Latching Type HFA Relay Inspections

In accordance with the reporting requirements of this bulletin, the following data includes the model number of the latching relay inspected, the number of relays of each type inspected, the number of each type requiring corrective actions due to interference between the molded contact carrier and the top of the relay armature, and the number of each type requiring corrective action due to insufficient spring tension on the latch. As San Onofre Unit 3 was in a refueling outage, the relay data includes all the latching type relays installed in the plant. In addition, the relays common to Units 2 and 3 were included due to special bus outages. Spare relays in the warehouse were also inspected.

Summary of San Onofre Inspections

Unit 3 Relay Inspections

Relay Model	12HFA154E22H
Quantity	8
Passed Latch Interference Inspection	8
Passed Spring Tension Inspection	8

Unit 2 Relay Inspections

Relay Model	12HFA154E22H
Quantity	2
Passed Latch Interference Inspection	2
Passed Spring Tension Inspection	2

Spare Relay Inspections

Relay Model	12HFA154E22H
Quantity	3
Passed Latch Interference Inspection	2
Failed Latch Interference Inspection	1
Passed Spring Tension Inspection	1
Failed Spring Tension Inspection	2
Failed Both Inspections	0

Relay Model 12HFA154E49H
Quantity 3

Passed Latch Interference Inspection 3
Passed Spring Tension Inspection 3

Relay Model 12HFA154E25H
Quantity 2

Passed Latch Interference Inspection 2
Passed Spring Tension Inspection 1
Failed Spring Tension Inspection 1

B. SCE Report on Planned Inspections When Procuring Future GE HFA Relays

In order to ensure future GE HFA relay spares are inspected prior to receipt and installation in the plant, SCE has placed additional checks into the procurement and spare parts process. In the procurement process, the spare parts purchase order requires the manufacturer of GE HFA relays to perform their own recommended inspections and guarantee the product before delivery. SCE further tests spare GE HFA relays following Station receipt by performance of a Verification Test Procedure to ensure compliance with the requirements of NRC Bulletin 88-03. Because of the numerous problems with these relays, SCE has added the subject relays to the Control of Problem Equipment program to ensure that Type 12HFA relays receive close scrutiny by SCE cognizant organizations prior to installation in the plant.

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