



UNITED STATES
NUCLEAR REGULATORY COMMISSION

REGION IV

611 RYAN PLAZA DRIVE, SUITE 400
ARLINGTON, TEXAS 76011-8064

DEC | 1995

Southern California Edison Co.
San Onofre Nuclear Generating Station
ATTN: Harold B. Ray
Executive Vice President
P.O. Box 128
San Clemente, California 92674-0128

SUBJECT:
NRC INSPECTION REPORT 50-361/95-98; 50-362/95-98

This refers to the inspection conducted by Mr. C. J. Paulk and Ms. L. J. Smith of this office on August 7-9, 1995, at the San Onofre Nuclear Generating Station, Units 2 and 3, facility. This initiative was prompted by recurring failures of safety-related steam turbine-driven standby pumps at several facilities in Region IV. We concurrently performed this inspection at most Region IV facilities to better understand the scope of design, maintenance, and testing practices related to safety-related steam turbines, which were supplied by the Terry Corporation. We also examined several aspects of various experience review processes to determine why similar failures continued to occur. On November 9, 1995, at the conclusion of the in-office review, the findings were discussed with those members of your staff identified in the enclosed report.

Areas examined during the inspection are identified in the report. Within these areas, the inspection consisted of selective examinations of procedures, representative records, and interviews with personnel. The combined results of this inspection for each of the Region IV facilities are documented in the enclosed report and executive summary.

With respect to your facility, the inspection noted that your staff had proactively addressed the potential for overspeed trips, resulting from auxiliary feedwater pump turbine governor valve sticking before such a trip had occurred. San Onofre was the only facility inspected, to address the issue of governor valve stem sticking, by replacing the stems with a material that was less susceptible to corrosion, prior to experiencing any problems. Your staff is commended for this proactive approach to safety.

We noted that your use of a lubricant with vapor-phase inhibitors was consistent with vendor recommendations. However, use of this oil at other facilities with high standby temperatures has resulted in governor speed control problems, and improper operation of the overspeed trip tappet. As a result of your use of the trip-and-throttle valve for steam isolation, the temperature in the vicinity of the turbine is elevated. While you have not experienced any problems related to the use of this type of lubricant, we encourage you to review this condition to ensure continued reliable operation of the auxiliary feedwater pump turbines.

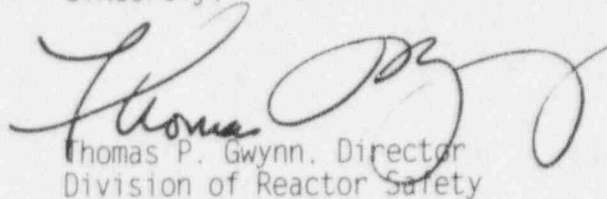
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In accordance with 10 CFR 2.790 of the NRC's "Rules of Practice," a copy of this letter and its enclosures will be placed in the NRC Public Document Room.

Should you have any questions concerning this inspection, we will be pleased to discuss them with you.

Sincerely,


Thomas P. Gwynn, Director
Division of Reactor Safety

Dockets: 50-361
50-362
Licenses: NPF-10
NPF-15

Enclosure:
NRC Inspection Report
50-361/95-98; 50-362/95-98
w/attachment

cc w/enclosure:
County of San Diego
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San Diego, California 92101

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City of San Clemente
ATTN: Mayor
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San Clemente, California 92672

E-Mail report to D. Nelson (DJN)
 E-Mail report to NRR Event Tracking System (IPAS)

bcc to DMB (1E01)

bcc distrib. by RIV:

L. J. Callan	Resident Inspector
DRSS-FIPB	MIS System
Branch Chief (DRP/F, WCFO)	Senior Project Inspector (DRP/F, WCFO)
RIV File	Branch Chief (DRP/TSS)
Leah Tremper (OC/LFDCB, MS: TWFN 9E10)	M. Hammond (PAO, WCFO)

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11/29/95	11/22/95	11/22/95		12/1/95	11/29/95	12/1/95

*previously concurred

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** by
 E-mail to
 LJS

060005

E-Mail report to D. Nelson (DJN)
 E-Mail report to NRR Event Tracking System (IPAS)

bcc to DMB (IE01)

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L. J. Callan	Resident Inspector
DRSS-FIPB	MIS System
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