

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) <b>DIABLO CANYON UNIT 1</b>						DOCKET NUMBER (2) <b>0 5 0 0 0 1 2 7 1 5</b>			PAGE (3) <b>1 OF 0 5</b>	
TITLE (4) <b>RCS TEMPERATURE AND CONTAINMENT PRESSURE INSTRUMENTATION SURVEILLANCES MISSED DUE TO INADEQUATE UNDERSTANDING OF THE PMTS UPDATING REQUIREMENTS</b>										

EVENT DATE (5)			LER NUMBER (6)			REPORT DATE (7)			OTHER FACILITIES INVOLVED (8)		
MONTH	DAY	YEAR	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	MONTH	DAY	YEAR	FACILITY NAMES		DOCKET NUMBER(S)
1	0	2 5	8	6	0 0 1	1	0	3 1 0			0 5 0 0 0
											0 5 0 0 0

OPERATING MODE (9) <b>5</b>		THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR § (Check one or more of the follow- (11))								
POWER LEVEL (10) <b>0 0 0</b>	20.402(b)			20.405(e)			80.73(a)(2)(iv)			73.71(b)
	20.405(a)(1)(i)			80.36(e)(1)			80.73(a)(2)(v)			73.71(e)
	20.405(a)(1)(ii)			80.38(e)(2)			80.73(a)(2)(vii)			OTHER (Specify in Abstract below and in Text, NRC Form 386A)
	20.405(a)(1)(iii)			80.73(a)(2)(i)			80.73(a)(2)(viii)(A)			
	20.405(a)(1)(iv)			80.73(a)(2)(ii)			80.73(a)(2)(viii)(B)			
20.405(a)(1)(v)			80.73(a)(2)(iii)			80.73(a)(2)(ix)				

LICENSEE CONTACT FOR THIS LER (12)										
NAME <b>RICHARD M. LUCKETT, REGULATORY COMPLIANCE ENGINEER</b>							TELEPHONE NUMBER <b>8 1 0 1 5 9 9 1 5 1 - 1 7 1 3 1 5 1 1</b>			

COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)										
CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPROS	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPROS	

SUPPLEMENTAL REPORT EXPECTED (14)							EXPECTED SUBMISSION DATE (15)		MONTH	DAY	YEAR
<input type="checkbox"/> YES (If yes, complete EXPECTED SUBMISSION DATE)							<input checked="" type="checkbox"/> NO				

ABSTRACT (Limit to 1400 spaces, i.e., approximately fifteen single-space typewritten lines) (16)

On January 3, 1986, plant personnel conducting a review of surveillance test records identified missing surveillances on three reactor coolant system temperature instrumentation channels. On February 8, 1986, as part of the same review, plant personnel identified another missed surveillance on a containment pressure instrumentation channel. These surveillances are required by Technical Specifications 4.3.1.1 and 4.3.2.1.

The cause of the missed surveillances was an inadequate understanding by Instrument and Control (I&C) personnel of the Preventative Maintenance Tracking System (PMTS) updating requirements (personnel error) and a lack of attention to detail.

The surveillance requirements for these instrumentation channels are now all met.

A review of I&C surveillance records has been performed and no other missed surveillances have been identified.

As a result of this event the following corrective actions are being taken. An I&C policy memorandum was issued to all appropriate I&C personnel to emphasize the method of correctly updating the PMTS. An independent technical review of I&C surveillance tests for completeness is now being performed prior to PMTS updating. In addition, supplementary training is being developed for I&C personnel upgraded to supervisory status to ensure that they are knowledgeable about the correct method of updating the PMTS.

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		86	0011	01	02	OF	05

TEXT (If more space is required, use additional NRC Form 366A's) (17)

I. Plant Conditions

The plant was in Mode 5 (Cold Shutdown) prior to missing the surveillance on October 25, 1984 and operated in Modes 1 (Power Operation) to Mode 5 (Cold Shutdown) during this event.

II. Description of Event

A. Event:

On January 3, 1986, plant personnel conducting a review of surveillance test records identified missing surveillances on three reactor coolant system temperature instrumentation channels (JC). On February 8, 1986, as part of the same review, plant personnel identified another missed surveillance on a containment pressure instrumentation channel (JC). These surveillances are required by Technical Specifications 4.3.1.1 and 4.3.2.1.

The surveillance test records were being reviewed as a result of a Quality Assurance Audit Finding Report on the Updating of Preventative Maintenance Tracking System (PMTS) Records. The audit finding report identified that PMTS records had been updated with partially completed data sheets. As a result of this audit finding report, Instrument and Controls (I&C) Department personnel with the assistance of Quality Assurance personnel conducted a complete review of I&C surveillance test records on both Unit 1 and Unit 2.

From this review it was identified that partial calibrations performed as a result of maintenance activities were incorrectly entered as complete calibrations in PMTS records for the following instruments:

- Reactor Coolant Temperature Channel 411/412 : Inoperable from 10-25-84 to 9-23-85
- Reactor Coolant Temperature Channel 431/432 : Inoperable from 10/31/84 to 4-22-85
- Reactor Coolant Temperature Channel 441/442 : Inoperable from 11-05-84 to 9-17-85

It was further identified that PMTS records were incorrectly updated to show a complete calibration when only a functional test was performed on the following instrument:

- Containment Pressure Channel 935 : Inoperable from 12-26-85 to 2-11-86

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As a result of this incorrect entry into PMTS, these instruments did not receive complete channel calibrations for the indicated periods.

B. Inoperable structures, components, or systems that contributed to the event:

None

C. Dates and approximate times for major occurrences:

1. Reactor coolant temperature instrument channel 411/412
  - a. December 9, 1982: Complete channel calibration performed
  - b. October 25, 1984: Event Date - Surveillance test interval of Technical Specification (TS) 4.3.2.1 including allowable extension of TS 4.0.2. was exceeded.
  - c. September 23, 1985: Complete channel calibration performed.
  - d. January 3, 1986: Discovery Date - Review of I&C surveillance test records identified missed surveillance.
2. Reactor Coolant Temperature Instrument Channel 431/432
  - a. December 15, 1982: Complete channel calibration performed.
  - b. October 31, 1984: Event Date - Surveillance test interval of Technical Specification (TS) 4.3.2.1 including allowable extension of TS 4.0.2. was exceeded.
  - c. April 22, 1985: Complete channel calibration performed.
  - d. January 3, 1986: Discovery Date: Review of I&C surveillance test records identified missed surveillance.
3. Reactor coolant temperature instrument channel 441/442
  - a. December 20, 1982: Complete channel calibration performed.

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

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TEXT (If more space is required, use additional NRC Form 365A's) (17)

- b. November 5, 1984: Event Date - Surveillance test interval of Technical Specification (TS) 4.3.2.1 including allowable extension of TS 4.0.2. was exceeded.
  - c. September 17, 1985: Complete channel calibration performed.
  - d. January 3, 1986: Discovery Date - Review of I&C surveillance test records identified missed surveillance.
4. Containment pressure instrument channel 935
- a. February 10, 1984: Complete channel calibration performed.
  - b. December 26, 1985: Event Date - Surveillance test interval of Technical Specification (TS) 4.3.2.1 including allowable extension of TS 4.0.2 was exceeded.
  - c. February 8, 1986: Discovery Date - Review of I&C surveillance test records identified missed surveillance.
  - d. February 11, 1986: Complete channel calibration performed.
- D. Other system or secondary functions affected:  
None
- E. Method of Discovery:  
Discovered by plant personnel conducting a review of surveillance test records in response to a Quality Assurance audit finding report.
- F. Operator Actions:  
None
- G. Safety system responses:  
None

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TEXT (If more space is required, use additional NRC Form 366A's) (17)

III. Cause of Event

## A. Immediate Cause:

Failure to meet surveillance requirements on Reactor Coolant Temperature Instrumentation Channels 411/412, 431/432, and 441/442 and on Containment Pressure Channel 935 as required by Technical Specifications 4.3.1.1 and 4.3.2.1.

## B. Root Cause:

1. Personnel error (cognitive); a lack of attention to detail.
2. Inadequate training of I&C personnel upgraded to supervisory status on PMTS updating requirements.

IV. Analysis of Event

During the time that the surveillance requirements were not met, the functional testing program (an analog channel operational test performed on a monthly interval as required by Technical Specifications 4.3.1.1 and 4.3.2.1) for these instruments indicated that the instrumentation was operating correctly. The completed channel calibrations, performed subsequent to this period, demonstrated the instruments to be in tolerance. Thus, no adverse safety consequences or implications resulted from this event.

V. Corrective Actions

As a result of this event the following corrective actions are being taken. An I&C policy memorandum was issued to all appropriate I&C personnel to emphasize the method of correctly updating the PMTS. An independent technical review of I&C surveillance tests for completeness is now being performed prior to PMTS updating. In addition, supplementary training is being developed for I&C personnel upgraded to supervisory status to ensure that they are knowledgeable about the correct method of updating the PMTS.

VI. Additional Information

## A. Failed components:

None

## B. Previous LERs on similar events:

None

PACIFIC GAS AND ELECTRIC COMPANY

PG&E

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JAMES D. SHIFFER  
VICE PRESIDENT  
NUCLEAR POWER GENERATION

March 10, 1986

PGandE Letter No.: DCL-86-066

Document Control Desk  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555

Re: Docket No. 50-275, OL-DPR-80  
Diablo Canyon Unit 1  
Licensee Event Report 1-86-001-01  
Reactor Coolant System Temperature and Containment Pressure  
Instrumentation Surveillances Missed Due to Inadequate  
Understanding of the Preventative Maintenance Tracking System  
Updating Requirements

Gentlemen:

Pursuant to 10 CFR 50.73(a)(2)(i), PGandE is submitting the enclosed revision to Licensee Event Report 1-86-001 concerning missed surveillances on reactor coolant system temperature and containment pressure instrumentation.

This revision provides supplemental information on the reactor coolant system temperature instrumentation missed surveillance and provides information on an additional missed surveillance on the containment pressure instrumentation which was identified during the review of surveillance test records.

This event has in no way affected the public's health and safety.

Kindly acknowledge receipt of this material on the enclosed copy of this letter and return it in the enclosed addressed envelope.

Sincerely,

*J. D. Shiffer*  
for J. D. Shiffer

Enclosure

cc: L. J. Chandler  
R. T. Dodds  
J. B. Martin  
B. Norton  
H. E. Schierling  
CPUC  
Diablo Distribution  
INPO

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