

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION.NBR: 8709210476 DDC.DATE: 87/09/14 NOTARIZED: NO DOCKET #
 FACIL: 50-275 Diablo Canyon Nuclear Power Plant, Unit 1, Pacific Ga 05000275
 AUTH. NAME AUTHOR AFFILIATION
 LUCKETT, R. M. Pacific Gas & Electric Co.
 SHIFFER, J. D. Pacific Gas & Electric Co.
 RECIP. NAME RECIPIENT AFFILIATION

SUBJECT: LER 87-012-00: on 841212 & 850212, containment fan cooler required cooling flowrate of Tech Specs not met. Caused by instrument drift. Administrative Procedure C-450, "Instrument & Controls..." revised. W/870914 ltr.

DISTRIBUTION CODE: IE22D COPIES RECEIVED: LTR 1 ENCL 1 SIZE: 6
 TITLE: 50.73 Licensee Event Report (LER), Incident Rpt, etc.

NOTES:

	RECIPIENT ID CODE/NAME	COPIES L TTR ENCL	RECIPIENT ID CODE/NAME	COPIES L TTR ENCL
	PD5 LA	1 1	PD5 PD	1 1
	TRAMMELL, C	1 1		
INTERNAL:	ACRS MICHELSON	1 1	ACRS MOELLER	2 2
	AEOD/DOA	1 1	AEOD/DSP/NAS	1 1
	AEOD/DSP/ROAB	2 2	AEOD/DSP/TPAB	1 1
	DEDRO	1 1	NRR/DEST/ADS	1 0
	NRR/DEST/CEB	1 1	NRR/DEST/ELB	1 1
	NRR/DEST/ICSB	1 1	NRR/DEST/MEB	1 1
	NRR/DEST/MTB	1 1	NRR/DEST/PSB	1 1
	NRR/DEST/RSB	1 1	NRR/DEST/SGB	1 1
	NRR/DLPQ/HFB	1 1	NRR/DLPQ/QAB	1 1
	NRR/DOEA/EAB	1 1	NRR/DREP/RAB	1 1
	NRR/DREP/RPB	2 2	NRR/PMAS/ILRB	1 1
	REG FILE 02	1 1	RES DEPY GI	1 1
	RES TELFORD, J	1 1	RES/DE/EIB	1 1
	RGN5 FILE 01	1 1		
EXTERNAL:	EG&G GROH, M	5 5	H ST LOBBY WARD	1 1
	LPDR	2 2	NRC PDR	1 1
	NSIC HARRIS, J	1 1	NSIC MAYS, G	1 1



LICENSEE EVENT REPORT (LER)

FACILITY NAME (1)		DOCKET NUMBER (2)	PAGE (3)
DIABLO CANYON UNIT 1		0500012715	1 OF 05

TITLE (4) CONTAINMENT FAN COOLER UNIT 1-3 REQUIRED COOLING WATER FLOWRATE OF TECHNICAL SPECIFICATION 4.6.2.3.a.2 WAS NOT MET DUE TO AN OUT-OF-TOLERANCE FLOW INSTRUMENT

EVENT DATE (6)			LER NUMBER (8)			REPORT DATE (7)			OTHER FACILITIES INVOLVED (9)		
MONTH	DAY	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	MONTH	DAY	YEAR	FACILITY NAMES			DOCKET NUMBER(S)
11	12	84	0112	010	01	14	87				050001
11	12	84	0112	010	01	14	87				050001

THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR § (11)

OPERATING MODE (9) 1

POWER LEVEL (10) 0.016

10 CFR 50.73(a)(2)(1)(B)

OTHER (Specify in Abstract below and in Text, NRC Form 306A)

LICENSEE CONTACT FOR THIS LER (12)

RICHARD M. LUCKETT, REGULATORY COMPLIANCE ENGINEER

TELEPHONE NUMBER: 8105 5951-713511

AREA CODE: 8105

COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)

CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRC	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRC

SUPPLEMENTAL REPORT EXPECTED (14)

YES (If you complete EXPECTED SUBMISSION DATE)

NO

EXPECTED SUBMISSION DATE (15)

MONTH	DAY	YEAR

ABSTRACT (16)

On December 12, 1984, with Unit 1 in Mode 1 (Power Operation), the allowed outage time of Technical Specification 3.6.2.3 was exceeded when the component cooling water flowrate to Containment Fan Cooler Unit 1-3 was less than the 2000 gpm required by Technical Specification 4.6.2.3.a.2. This event occurred again on February 12, 1985. On both of these occasions the flow instrument (FI-36) was indicating 2000 gpm but the actual flowrate was subsequently determined to be approximately 1950 gpm. The incorrect indication was due to a flow instrument being out-of-tolerance.

The cause of this event was attributed to instrument drift resulting in the flow instrument (FI-36) indicating higher than actual and a failure to perform an evaluation of the related test results when the out-of-tolerance condition was identified.

This event was discovered as the result of a nonconformance resolution. The resolution required the review of previously performed surveillance tests to determine the impact on test results of instruments that were found to be out-of-tolerance.

At the time of discovery of this event, flow instrument FI-36 was reading within tolerance and the surveillance requirement was being met.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

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

I. Initial Conditions

Unit 1 was in Mode 1 (Power Operation) at 6 percent power.

II. Description of Event

A. Event:

On December 12, 1984, with Unit 1 in Mode 1 (Power Operation), the allowed outage time of Technical Specification 3.6.2.3 was exceeded when the component cooling water flowrate to Containment Fan Cooler Unit 1-3 was less than the 2000 gpm required by Technical Specification 4.6.2.3.a.2. This event occurred again on February 12, 1985. On both of these occasions the flow instrument (FI-36) was indicating 2000 gpm but the actual flowrate was subsequently determined to be approximately 1950 gpm. The incorrect indication was due to a flow instrument being out-of-tolerance.

This event was discovered as the result of a question raised during a quality assurance audit, on conformance with quality assurance guidelines on the handling of maintenance and test equipment. A subsequent investigation identified that evaluations of surveillance test results had not been performed when out-of-tolerance conditions on installed instrument had been identified. The resolution of this nonconformance required the review of previously performed surveillance tests to determine the impact on test results of instruments that were found to be out-of-tolerance. The review identified that an out-of-tolerance condition existed on component cooling water flow instrument FI-36 between February 20, 1984 (initial entry into Mode 4) and November 23, 1985 when a calibration was performed. Further review of the surveillance tests performed during this period of time that utilized FI-36 for data, identified two occasions when the actual component cooling water flow to Containment Fan Cooler Unit 1-3 was less than 2000 gpm.

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

None

C. Dates and approximate times for major occurrences:

1. February 20, 1984: Initial entry into Mode 4, flow instrument FI-36 out-of-tolerance.
2. December 4, 1984: STP M-51 performed with component cooling water flow (adjusted for the out-of-tolerance condition) less than 2000 gpm required by Technical Specification 4.6.2.3.a.2.



LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

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

- 3. December 12, 1984: Event date - The allowed outage time of Technical Specification 3.6.2.3, action a. was exceeded.
- 4. February 4, 1985: STP M-51 again performed with component cooling water flow (adjusted for the out-of-tolerance condition) less than the 2000 gpm required by Technical Specification 4.6.2.3.a.2.
- 5. February 12, 1985: Second event date - The allowed outage time of Technical Specification 3.6.2.3, action a. was exceeded.
- 6. November 23, 1985: Flow instrument FI-36 calibrated and out-of-tolerance identified.
- 7. August 13, 1987: Discovery date - The flow instrument out-of-tolerance was identified as having affected the results of two surveillance tests.

D. Other systems or secondary functions affected:

None

E. Method of discovery:

Review conducted as a result of a nonconformance resolution.

F. Operator actions:

None

G. Safety system responses:

None

III. Cause of Event

A. Immediate cause:

Instrument drift resulting in the flow instrument (FI-36) indicating higher than actual.



LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

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

B. Root cause:

Failure to perform an evaluation of test results when an out-of-tolerance condition was identified on installed test instrumentation.

IV. Analysis of Event

An additional consideration in this event is that the current Technical Specification allows continued operation with one containment fan cooler unit inoperable, while the previous Technical Specification (that existed during the events) required all five containment fan cooler units to be operable. This operability requirement was changed as a result of License Amendment No. 11 to the Unit 1 license (issued January 7, 1987).

During the period these events occurred, Technical Specification 3.6.2.3 required that all five containment fan cooler units (CFCUs) be operable in order to have three available to meet accident analysis assumptions, considering the single failure of the power supply to two of the CFCUs. The current LOCA analysis assumptions are that two of the five CFCUs are operable and available. Therefore, the inoperability of one CFCU due to a problem as described in this report would not have been a violation of the Technical Specification. During the period of time that CFCU 1-3 was administratively inoperable it was still capable of performing its intended safety-related function in 1) maintaining containment air temperature within limits during normal operation, 2) providing adequate heat removal capacity when operated in conjunction with the containment spray systems during post LOCA conditions, and 3) providing adequate mixing of the containment atmosphere following a LOCA to prevent localized accumulations of hydrogen from exceeding the flammable limit; even though the component cooling water flow rate was approximately 50 gpm less than the required.

V. Corrective Actions

- A. At the time of discovery of this event, flow instrument FI-36 was reading within tolerance and the surveillance requirement was being met.
- B. Administrative Procedure C-450, "Instrument and Controls Department Preventative Maintenance Program," will be revised to provide action to be taken when instruments covered by this procedure are found out-of-tolerance.
- C. A 100 percent review of calibration results on installed test equipment is being performed to identify if any other out-of-tolerance conditions existed that effected the results of previously performed surveillance test. If any other Technical Specification violations are identified as a result of this effort and due to the same cause identified, they will be included in a revision to this LER.

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		8 7	- 0 1 2	- 0 0	0 5	OF	0 5

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

VI. Additional Information

A. Failed components:

None

B. Previous LERs on similar events:

None

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PACIFIC GAS AND ELECTRIC COMPANY

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JAMES D. SHIFFER
VICE PRESIDENT
NUCLEAR POWER GENERATION

September 14, 1987

PGandE Letter No.: DCL-87-223

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

Re: Docket No. 50-275, OL-DPR-80
Diablo Canyon Unit 1
Licensee Event Report 1-87-012-00
Containment Fan Cooler Unit 1-3 Required Cooling Water Flowrate of
Technical Specification 4.6.2.3.a.2 Was Not Met Due to an
Out-Of-Tolerance Flow Instrument

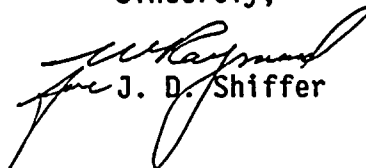
Gentlemen:

Pursuant to 10 CFR 50.73(a)(2)(i)(B), PGandE is submitting the enclosed Licensee Event Report concerning the Containment Fan Cooler Unit 1-3 required cooling water flowrate of Technical Specification 4.6.2.3.a.2 not being met due to an out-of-tolerance flow instrument.

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

Enclosure

cc: L. J. Chandler
J. B. Martin
M. M. Mendonca
P. P. Narbut
B. Norton
CPUC
Diablo Distribution
INPO

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