NRC Form 366
(9/83)

U.S. NUCLEAR REGULATORY COMMISSION
APPROVED OMB NO. 3150-0104
EXPIRES: 8/31/85

# LICENSEE EVENT REPORT (LER)

| FACILITY NAME (1) | DOCKET NUMBER (2) | PAGE (3) |
|---|---|---|
| SAN ONOFRE NUCLEAR GENERATING STATION, UNIT 2 | 0 5 0 0 0 3 6 1 | 1 OF 0 2 |

TITLE (4)

EMERGENCY CHILLER MICROSWITCH MALFUNCTION

| EVENT DATE (5) | | | LER NUMBER (6) | | | REPORT DATE (7) | | | OTHER FACILITIES INVOLVED (8) | |
|---|---|---|---|---|---|---|---|---|---|---|
| MONTH | DAY | YEAR | YEAR | SEQ. NUMBER | REV. NUMBER | MONTH | DAY | YEAR | FACILITY NAMES | DOCKET NUMBER(S) |
| | | | | | | | | | Unit 3 | 0 5 0 0 0 3 6 2 |
| 0 5 | 2 5 | 8 4 | 8 4 | — 0 3 1 | — 0 0 | 0 6 | 2 5 | 8 4 | | 0 5 0 0 0 |

| OPERATING MODE (9) | | THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more of the following) (11) | | | |
|---|---|---|---|---|---|
| 1 | | 20.402(b) | 20.405(c) | 50.73(a)(2)(iv) | 73.71(b) |
| POWER LEVEL (10) | | 20.405(a)(1)(i) | 50.36(c)(1) | 50.73(a)(2)(v) | 73.71(c) |
| 1 0 0 | | 20.405(a)(1)(ii) | X 50.36(c)(2) | 50.73(a)(2)(vii) | OTHER (Specify in Abstract below and in Text, NRC Form 366A) |
| | | 20.405(a)(1)(iii) | X 50.73(a)(2)(i) | 50.73(a)(2)(viii)(A) | |
| | | 20.405(a)(1)(iv) | 50.73(a)(2)(ii) | 50.73(a)(2)(viii)(B) | |
| | | 20.405(a)(1)(v) | 50.73(a)(2)(iii) | 50.73(a)(2)(x) | |

LICENSEE CONTACT FOR THIS LER (12)

| NAME | TELEPHONE NUMBER |
|---|---|
| | AREA CODE |
| J. G. HAYNES, STATION MANAGER | 7 1 4 — 4 9 2 - 7 7 0 0 |

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

| CAUSE | SYSTEM | COMPONENT | MANUFACTURER | REPORTABLE TO NPRDS | | CAUSE | SYSTEM | COMPONENT | MANUFACTURER | REPORTABLE TO NPRDS | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | |
| | | | | | | | | | | | |

| SUPPLEMENTAL REPORT EXPECTED (14) | | EXPECTED SUBMISSION DATE (15) | MONTH | DAY | YEAR |
|---|---|---|---|---|---|
| YES (If yes, complete EXPECTED SUBMISSION DATE) | X NO | | | | |

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


At 1410 on 5/25/84, with Units 2 and 3 at 100 percent power, during performance of a routine surveillance on the Toxic Gas Isolation System (TGIS), Emergency Chiller E-336 was inadvertently started. E-336 subsequently tripped and could not be immediately restarted. Loss of an Emergency Chiller renders equipment inoperable on both units in rooms where chilled water is provided to cool ambient air. Thus, the loss of E-336 renders two inverters inoperable in each unit, and since the associated Action Statement for Modes 1 through 4 addresses only the loss of one inverter, LCO 3.0.3 was invoked. E-336 was returned to service at 1447 on 5/25/84, and LCO 3.0.3 was exited.

E-336 tripped and failed to restart due to a stuck microswitch in the program timer. The timer was manually cycled, and the microswitch was released. E-336 has been successfully started several times with no further malfunction of the microswitch or program timer. However, as a precaution, the program timer and the microswitch will be replaced. To prevent inadvertent chiller starts during surveillances, the TGIS surveillance procedure was revised to improve clarity.

| FACILITY NAME (1) | DOCKET NUMBER (2) | LER NUMBER (6) | | | PAGE (3) |
|---|---|---|---|---|---|
| | | YEAR | SEQ. NUMBER | REV. NUMBER | |
| SAN ONOFRE NUCLEAR GENERATING STATION, UNIT 2 | 0 5 0 0 0 3 6 1 | 8 4 | - 0 3 1 | - 0 0 | 0 2 OF 0 2 |

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

At 1410 on 5/25/84, with Units 2 and 3 at 100 percent power, during performance of Surveillance Procedure, SO23-II-1.15, "Toxic Gas Isolation System (TGIS) Channel Functional Test and Channel Calibration," Emergency Chiller E-336 (EIIS Component Identifier CHU) inadvertently started when a technician erred when installing jumpers designed to prevent E-336 from starting during the TGIS surveillance. E-336 tripped and failed to restart due to a stuck microswitch in the program timer (EIIS Component Identifier TMR).

Loss of an Emergency Chiller renders equipment inoperable in rooms in both units where chilled water is provided to cool ambient air. Several Limiting Conditions for Operation (LCO's) govern plant operation in this situation. The most restrictive LCO is LCO 3.8.3.1, "Onsite Power Distribution System." The loss of the Train A Emergency Chiller renders two inverters (EIIS Component Identifier INVT) inoperable in each unit, and since the associated Action Statement only addresses the loss of one inverter, LCO 3.0.3 was invoked. The emergency chiller was returned to service at 1447 and LCO 3.0.3 was exited.

The program timer for E-336 was manually cycled, and the microswitch was released. E-336 has been successfully started several times with no further malfunction of the microswitch. However, as a precaution, the program timer and the microswitch will be replaced. To prevent inadvertent chiller starts during TGIS surveillance testing, SO23-II-1.15 has been revised to clarify the placement of jumpers. No other corrective action is planned.

There are no reasonable or credible circumstances under which this event would have been more severe.

*Southern California Edison Company*

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SAN CLEMENTE, CALIFORNIA 92672

J. G. HAYNES
STATION MANAGER

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(714) 492-7700

June 25, 1984

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

Subject: Docket No. 50-361
30-Day Report
Licensee Event Report No. 84-031
San Onofre Nuclear Generating Station, Units 2 and 3

Pursuant to 10 CFR 50.36(c)(2) and 50.73(a)(2)(i)(B), this submittal provides the required 30-day written Licensee Event Report (LER) for an occurrence involving Limiting Condition for Operation 3.8.3.1. Since this occurrence involved a shared system between Units 2 and 3, a single LER for Unit 2 is enclosed per NUREG-1022. Neither the health and safety of plant personnel nor the public were affected by this event.

If you require any additional information, please so advise.

Sincerely,

Enclosure: LER 84-031

cc: A. E. Chaffee (USNRC Resident Inspector, Units 1, 2 and 3)
J. P. Stewart (USNRC Resident Inspector, Units 2 and 3)

J. B. Martin (Regional Administrator, NRC Region V)

Institute of Nuclear Power Operations (INPO)

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