

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1)
SAN ONOFRE NUCLEAR GENERATING STATION, UNIT 2DOCKET NUMBER (2)
0 5 0 0 0 3 6 1 1PAGE (3)
1 OF 012

TITLE (4)

SPURIOUS TOXIC GAS ISOLATION SYSTEM (TGIS) ACTUATIONS

EVENT DATE (5)
MONTH DAY YEAR
09 30 84
LER NUMBER (6)
SEQ. NUMBER
0512
REV. NUMBER
010
REPORT DATE (7)
MONTH DAY YEAR
09 10 84
OTHER FACILITIES INVOLVED (8)
FACILITY NAMES
SONGS UNIT 3
DOCKET NUMBER(S)
0 5 0 0 0 3 6 1 2OPERATING MODE (9)
1
POWER LEVEL (10)
1100
THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more of the following) (11)
20.402(b) ☐ 20.405(c) ☒ 50.73(a)(2)(iv) ☐ 73.71(b) ☐
20.405(a)(1)(i) ☐ 50.36(c)(1) ☐ 50.73(a)(2)(v) ☐ 73.71(c) ☐
20.405(a)(1)(ii) ☐ 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) ☐ 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
J. G. HAYNES, STATION MANAGER
TELEPHONE NUMBER
AREA CODE
7114 4921-7700

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 yes, complete EXPECTED SUBMISSION DATE) ☐ NO ☒
EXPECTED SUBMISSION DATE (15)
MONTH DAY YEAR

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

On September 3, 1984 at 0142, with both Units 2 and 3 in Mode 1 at 100% power, a spurious Toxic Gas Isolation System (TGIS) Train 'A' actuation occurred. Subsequent to this date, spurious Train 'B' actuations occurred on September 6 at 0920, 1100, and 1130 and on September 11 at 0718. The Control Room Emergency Air Cleanup System (CREACUS) actuated on each TGIS. For each occurrence, the actuation was verified to be spurious by confirming that the meter indications on the TGIS panel were less than their respective setpoints, and TGIS was immediately reset. See also LERs 84-006, 012, 021, 026, 032, 037, and 042 (Docket No. 50-361).

The spurious TGIS actuations are the result of overly conservative alarm setpoints. In addition, one or more of the following conditions also contribute to spurious TGIS actuations: electrical noise; rapid temperature and pressure changes; radio transmissions; vibration; and dust and dirt accumulation. Corrective actions have been implemented and are continuing in order to eliminate these conditions. A proposed Technical Specification amendment was submitted April 27, 1984, requesting more appropriate TGIS setpoints. In addition, a request for exemption from reporting spurious actuations of the TGIS under 10 CFR 50.72 and 10 CFR 50.73 is being prepared.

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LICENSEE EVENT REPORT (LER)
TEXT CONTINUATION

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 5 2	- 0 0	0 2	OF	0 2

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

On September 3, 1984, at 0142, with both Units 2 and 3 in Mode 1 at 100% power, a spurious Toxic Gas Isolation System (TGIS) Train 'A' (EIIS System Identifier JF) actuation occurred. Subsequent to this date, spurious Train 'B' actuations occurred on September 6 at 0920, 1100, and 1130 and on September 11 at 0718. The Control Room Emergency Air Cleanup System (CREACUS) (EIIS System Identifier VI) actuated on each TGIS. For each occurrence, the actuation was verified to be spurious by confirming that the meter indications on the TGIS panel were less than their respective setpoints, and TGIS was immediately reset. No plant systems or components failed as a result of these events. See also LERs 84-006, 012, 021, 026, 032, 037, and 042 (Docket No. 50-361).

The spurious TGIS actuations are the result of overly conservative alarm setpoints. In addition, one or more of the following conditions also contribute to spurious TGIS actuations: electrical noise levels; rapid temperature and pressure changes; radio transmissions; vibration; and dust and dirt accumulation.

Several corrective actions were implemented in 1983 that have been effective in reducing, but not eliminating, the spurious TGIS actuations. These actions include: sealing the door in the corridor housing the TGIS, which has reduced rapid temperature and pressure changes and dust accumulation; banning radios in the area; and reducing calibration and surveillance intervals on the TGIS analyzers. Additionally, the system has been instrumented with recorders in order to determine which of the analyzers are causing the trips, and the time delay for the ammonia and carbon dioxide analyzers has been increased.

A proposed Technical Specification amendment was submitted April 27, 1984, requesting more appropriate TGIS setpoints. In addition, a request for exemption from reporting spurious actuations of the TGIS under 10 CFR 50.72 and 10 CFR 50.73 is being prepared. In the interim, corrective actions are continuing in order to eliminate the spurious TGIS actuations.

There are no reasonable or credible circumstances which could have increased the severity of these occurrences. Neither the health and safety of plant personnel nor the public were affected.

Southern California Edison Company

SAN ONOFRE NUCLEAR GENERATING STATION

P.O. BOX 128

SAN CLEMENTE, CALIFORNIA 92672

J. G. HAYNES
STATION MANAGER

SCE

TELEPHONE
(714) 492-7700

October 1, 1984

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

Subject: Docket No. 50-361
30-Day Report
Licensee Event Report No. 84-052
San Onofre Nuclear Generating Station, Units 2 and 3

Pursuant to 10 CFR 50.73(a)(2)(iv), this submittal provides the required 30-day written Licensee Event Report (LER) for five occurrences involving the actuation of the Toxic Gas Isolation System (TGIS). Since these events involved shared systems between Units 2 and 3, these events have been combined into a single report in accordance with NUREG-1022. Neither the health and safety of plant personnel nor the public were affected by these events.

If you require any additional information, please so advise.

Sincerely,

JG Haynes /sem

Enclosure: LER No. 84-042

cc: A. E. Chaffee (USNRC Senior 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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