

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) SAN ONOFRE NUCLEAR GENERATING STATION, UNIT 2										DOCKET NUMBER (2) 0 5 0 0 0 3 6 1				PAGE (3) 1 OF 0 1		
TITLE (4) TOXIC GAS ISOLATION SYSTEM (TGIS) HYDROCARBON ANALYZER 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)			
0 7	2 2	8 5	8 5	0 3 9	0 0	0 8	2 1	8 5	SONGS, UNIT 3				0 5 0 0 0 3 6 2			
OPERATING MODE (9) 1			THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more of the following) (11)													
POWER LEVEL (10) 1 0 0			20.402(b)				20.405(c)				<input checked="" type="checkbox"/> 50.73(a)(2)(iv)		73.71(b)			
			20.405(a)(1)(i)				50.36(c)(1)				<input type="checkbox"/> 50.73(a)(2)(v)		73.71(c)			
			20.405(a)(1)(ii)				50.36(c)(2)				<input type="checkbox"/> 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)				<input type="checkbox"/> 50.73(a)(2)(viii)(A)					
			20.405(a)(1)(iv)				50.73(a)(2)(ii)				<input type="checkbox"/> 50.73(a)(2)(viii)(B)					
			20.405(a)(1)(v)				50.73(a)(2)(iii)				<input type="checkbox"/> 50.73(a)(2)(x)					
LICENSEE CONTACT FOR THIS LER (12)																
NAME H. E. MORGAN, STATION MANAGER										TELEPHONE NUMBER AREA CODE 7 1 4 4 9 2 1- 17 17 10 10						
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)												EXPECTED SUBMISSION DATE (15)		MONTH	DAY	YEAR
<input checked="" type="checkbox"/> YES (If yes, complete EXPECTED SUBMISSION DATE)												<input type="checkbox"/> NO		1 0	2 5	8 5

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

On July 22, 1985, at 0104, with Units 2 and 3 at 100% and at 55% power, respectively, Toxic Gas Isolation System (TGIS) Train 'B' (EIIS System Code VI) actuated when the hydrocarbon analyzer (EIIS Component Code 45) exceeded its actuation setpoint. The Control Room Emergency Air Cleanup System (CREACUS) (EIIS System Code VI) actuated as required. At 0153 TGIS was reset. The cause of the hydrocarbon analyzer actuation is under investigation, and the cause and corrective actions will be provided in a revision to this LER upon completion of the investigation.

To date it has been determined that a flame-out simultaneously occurred with the hydrocarbon analyzer actuation. The expected TGIS response to a flame-out condition is a hydrocarbon analyzer channel failure signal, not an actuation.

The cause of the flame-out was a misalignment of the hydrogen bottles. An investigation could not determine the individual responsible for the misalignment; however, the investigation revealed that operators can be easily misled by the installed pressure gauges, because gas trapped in the instrument sensing lines can give a false indication of the bottle status. To prevent recurrence, Operating Instruction S023-3-2.29, "Toxic Gas Analyzer Operation," has been revised to use signs or caution tags to delineate the status of the hydrogen and air bottles. This event has been discussed with all operators at pre-shift briefings, and training has been provided on the potential problems associated with this system.

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Southern California Edison Company

SAN ONOFRE NUCLEAR GENERATING STATION

P.O. BOX 128

SAN CLEMENTE, CALIFORNIA 92672

H. E. MORGAN
STATION MANAGER

SCE

TELEPHONE
(714) 492-7700

August 21, 1985

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

Subject: Docket No. 50-361
30 Day Report
Licensee Event Report No. 85-039
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 an occurrence involving an actuation of the Toxic Gas Isolation System (TGIS). Since this event involved shared systems between Units 2 and 3, a single report is being filed in accordance with NUREG-1022. Neither the health and safety of plant personnel nor the health and safety of the public was affected by this event. Our investigation into the cause of this event is continuing and a revised LER will be submitted by October 25, 1985.

If you require any additional information, please so advise.

Sincerely,

H E Morgan

Enclosure LER No. 85-039

cc: F. R. Huey (USNRC Senior Resident Inspector, Units 1, 2 and 3)

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

Institute of Nuclear Power Operations (INPO)

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