NRC Form 366 . (9/83) LICENSEE EVENT REPORT (LER)											U.S. NUCLEAR REGULATORY COMMISSIO APPROVED OMB NO. 3150-0104 EXPIRES: 8/(11/85								
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NRC Form 366A (9/83)	LICENSEE EVENT REPORT (L TEXT CONTINUATION	ER) APPROVED OMB	U.S. NUCLEAR REGULATORY COMMISSION APPROVED OMB NO. 3150-0104 EXPIRES: 8/31/85						
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SAN ONOFRE NUCLEAR GENERATING STATION, UNITS 2 AND 3

UNITS 2 AND 3 0 5 0 0 3 6 1 8 5 - 0 7 9 - 00 02 0F 03 TEXT (If more space is required, use additional NRC Form 366A's) (17)

On 2/8/85 at 1641, 2/10/85 at 1545 and 2/15/85 at 1338, with Units 2 and 3 in Mode 5, spurious Toxic Gas Isolation System (TGIS) Train 'B' (EIIS System Identifier JF) actuations occurred. The Control Room Emergency Air Cleanup Sytem (CREACUS)(EIIS System Identifier VI) actuated as required. The actuations were verified to be spurious by confirming that the meter indications on the TGIS panel were less than their respective setpoints, and TGIS was reset at 1646 on 2/8/85, at 1550 on 2/10/85 and at 1338 on 2/15/85.

Spurious TGIS actuations have been a recurring event, and have been the result of one or more of the following conditions: overly conservative alarm setpoints; electrical noise levels; rapid temperature and pressure changes; radio transmissions; vibration; and dust and dirt accumulation. See also LERs 84-006, -012, -021, -026, -032, -037, -042, -052, -055, -065 and 85-003 (Docket No. 50-361).

Several corrective actions were implemented in 1983 that were 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. In September 1984, the time delay for the ammonia and carbon dioxide analyzers was increased, which has been effective in reducing the number of spurious actuations from an average of thirty per quarter to eight in the last quarter of 1984.

A TGIS Task Force was formed to propose additional corrective actions to minimize spurious TGIS actuations. Their recommendations include consideration of the following:

- 1. Alarm Monitoring to determine which alarms initiate TGIS actuation.
- 2. Improved calibration and preventative maintenance procedures.
- Alarm delays for alarm circuits of CO₂, NH₃, hydrocarbon, and Cl₂ analyzers.
- 4. Change analyzer failure trip logic to remove analyzer "Lo Alarm" circuitry from actuator trip logic and rewire to equipment "trouble" alarm only.
- 5. Implement setpoint changes resultant from technical specification amendment issued on 1/9/85 to allow more appropriate TGIS setpoints.
- 6. Miscellaneous Design Modifications
 - a) Individual analyzer alarm indicators.
 - b) Noise suppression modifications, heat dissipation/air condition evaluation.
 - c) Fabricate and install a hydrogen gas cylinder rack with pressure regulator, pressure switch, pressure indicators, tubing and remoute one electrical circuit. This modification adds redundant burner fuel supply for the butane analyzer.

	SEE EVENT REPORT (LE	U.S. NUCLEAR REGULATORY COMMISSION APPROVED OMB NO. 3150-0104 EXPIRES: 8/31/85							
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- d) Fabricate and install two compressed air cylinder racks with pressure regulators pressure switches, pressure indicators, tubing and two new circuits. This modification replaces the existing compressed air system supply with a more reliable source.
- e) Modify two flow switch circuits to terminate fuel supply or loss of sample flow to the butane analyzer.

Many of the above TGIS Task Force recommendations are already in progress and should greatly reduce spurious TGIS actuations at SONGS 2 and 3.

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

Southern California Edison Company

SAN ONOFRE NUCLEAR GENERATING STATION P.O. BOX 128 SAN CLEMENTE, CALIFORNIA 92672

J. G. HAYNES STATION MANAGER

March 7, 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. 85-019 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 actuations 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 health and safety of the public was affected by these events.

If you require any additional information, please so advise.

Sincerely, If Haynes

Enclosure: LER No. 85-019

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

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

Institute of Nuclear Power Operations (INPO)

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