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

On May 28, 1984, at 0920, with Units 2 and 3 in Mode 1 at 100% power, a spurious Toxic Gas Isolation System (TGIS) (EIIS System Identifier JF) actuation occurred. Subsequent to this date, additional spurious actuations occurred on May 30, 31, June 3, 7, 14, 18, 19 and 23. 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 and TGIS was immediately reset. No plant systems or components failed as a result of these events. See also LERs 84-006, 012, 021 and 026 (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. The actuation on May 30, 1984, was traced to dirty contacts on an oscillator, which created noise on the ammonia and CO_2 channels. The oscillator card was replaced and TGIS Train B was returned to service.

Several corrective actions have been implemented 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.

A proposed Technical Specification amendment has been submitted to permit more appropriate TGIS setpoints. In addition, a request for exemption from reporting invalid 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

June 27, 1984

J. G. HAYNES

TELEPHONE (714) 492-7700

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

Subject: Docket No. 50-361 30-Day Report Licensee Event Report No. 84-032 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 eleven occurrences involving the actuation of the Toxic Gas Isolation System (TGIS). Since these events involve 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, Vbs Haymer

Enclosure: LER No. 84-032

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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