

Date: 09/20/85

This preliminary notification constitutes EARLY notice of events of POSSIBLE safety or public interest significance. The information presented is as initially received without verification or evaluation and is basically all that is known by Region V staff on this date.

FACILITY: Southern California Edison Company
San Onofre Unit 1
Docket No. 50-206

Emergency Classification
____ Notification of Unusual Event
____ Alert
____ Site Area Emergency
____ General Emergency
XX Not Applicable

SUBJECT: REACTOR TRIP INVOLVING INOPERABLE TURBINE-DRIVEN AUXILIARY
FEEDWATER PUMP AND MAIN TURBINE OVERSPEED - UPDATE

San Onofre Unit 1 tripped at 19:05 on September 19, 1985. A technician adding nitrogen to the "B" auxiliary transformer apparently added it too fast, causing the auxiliary transformer protective devices to trip. This resulted in a turbine trip and reactor trip. A temporary low level was experienced in one steam generator, and the turbine-driven auxiliary feed pump started but tripped after a brief run. The AFP trip was initially believed to be due to overspeed, but inspection during the night indicates the AFP turbine bearings to have been wiped, apparently due to lack of lube oil, and the AFP trip may have resulted from vibration.

UPDATE: Region V has subsequently learned that the lubricating oil level in one bearing sump on the auxiliary feedwater pump was found to have low oil level. However, the sight glass on this sump was blocked with a protective ear plug, causing the sight glass to indicate a normal sump level. It is not clear whether this ear plug was inadvertently or intentionally placed in the sight glass. The licensee has concluded that the AFP turbine failed because of inadequate lubrication of the related bearing. Region V and licensee investigation into the cause is in progress.

Following the main turbine trip, steam reheater dump valves did not actuate as required, resulting in a main turbine overspeed to 126 per cent of normal speed (1800 rpm).

The licensee is still investigating this event. The resident inspectors are examining the licensee's efforts and other circumstances involved in the event.

The licensee will issue a press release this morning.

This information is current as of 2:00 pm on September 20, 1985.

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| | | | | REGION V: FORM 211 | | |
| | | | | (Revised 3/14/83) | | |

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