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PRELIMINARY NOTIFICATION OF EVENT OR UNUSUAL OCCURRENCE--PNO-V-88-07 Date 02/01/88

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: PACIFIC GAS & ELECTRIC COMPANY
DIABLO CANYON UNIT 2
DOCKET NO. 50/323
SAN LUIS OBISPO COUNTY, CA

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

SUBJECT: OP DELTA T ACTUATION AND TURBINE RUN BACK

On January 31, 1988, at 4:06 am PST, with Unit 2 at 100% power, the licensee declared an Unusual Event as a result of an Overpower delta Temperature (OP delta T) actuation which caused a turbine runback to 87% power. A reactor trip did not occur, as the OP delta T reactor trip setpoint was not reached.

A senior reactor operator, performing troubleshooting activities on a MSR shell water level control valve, shorted the 120 vdc power supply to the valve solenoid which opened a 120 vdc power supply breaker. Twelve high level spill valves from the MSR high pressure drain tanks and MSR low pressure drain tanks opened on the loss of power, causing part of the main steam and reheat steam to be bypassed to the condenser. The turbine control system responded to the reduced turbine first stage pressure and increase steam demand by opening the turbine governor valves further. The resultant RCS cooldown resulted in reactor power increasing to 103.6%. Operators began to manually reduce turbine load, and 120 vdc power was reestablished to the high level spill valves closing the valves (power was reestablished within about three minutes of the breaker opening). Reactor power was above 100% for about two minutes. Steam flow immediately decreased when the spill valves were closed, causing Tavg/ Δ T to increase to the OP delta T rod stop/turbine runback setpoint (control rods were in manual control).

The resident inspector and licensee's operations manager responded onsite to assess the Unusual Event. NRC follow-up items include 1) work control practice/policies regarding troubleshooting of plant equipment by operations, 2) identification and awareness of equipment status (MSR level control problem had been previously documented and was being assessed by maintenance), and 3) the decision to return the plant to full power without first obtaining management involvement.

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PDR I&E
PNO-V-88-007 PDR

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This information is current as of 11:00 am, PST, February 1, 1988.

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DISTRIBUTION BY 5520:

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FAX TO:

Date ~~2-1-88~~ ²⁻¹⁻⁸⁸ Time 3:23
 INPO 3:23
 NSAC 3:25
 LICENSEE 4:00
 RESIDENT INSPECTOR 3:38
 HQS. OPERATIONS OFFICER 3:30

MAIL TO:

DCS (Original)
DOT:(Trans. Only, Applicable State)

RV FORM 211
Revised: 8/19/87