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FACIL:50-275	Diablo Canyon Nuclear Power Plant, Unit 1, Pacific Ga	05000275
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RECIP.NAME	RECIPIENT AFFILIATION	

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SUBJECT: LER 92-018-00:on 920912, plant operators initiated manual trip to prevent inadvertent criticality from inadvertent cooldown due to excessive leakage.Cause of event under investigation.Suppl LER will be issued.W/921009 ltr.

DISTRIBUTION CODE: IE22T COPIES RECEIVED:LTR / ENCL / SIZE: 8 TITLE: 50.73/50.9 Licensee Event Report (LER), Incident Rpt, etc.

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**Pacific Gas and Electric Company** 

77 Beale Street San Francisco. CA 94106 415/973-4684 Gregory M. Rueger Senior Vice President and General Manager Nuclear Power Generation

October 9, 1992

PG&E Letter No. DCL-92-217

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

Re: Docket No. 50-275, OL-DPR-80 Diablo Canyon Unit 1 Licensee Event Report 1-92-018-00 Manual Reactor Trip to Prevent Inadvertent Criticality from Inadvertent Cooldown due to Excessive Steam Leakage

Gentlemen:

Pursuant to 10 CFR 50.73(a)(2)(iv), PG&E is submitting the enclosed Licensee Event Report regarding a manual reactor trip to prevent inadvertent criticality from inadvertent cooldown due to excessive steam leakage.

This event has in no way affected the health and safety of the public.

Sincerely,

Gregory M. Rueger

cc: Ann P. Hodgdon John B. Martin Philip J. Morrill Harry Rood CPUC Diablo Distribution INPO

DC1-92-TI-N042

Enclosure

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re-latch the main turbine in a manner that would keep the main turbine stop valves closed. When the main turbine was re-latched, an unplanned main turbine acceleration was noted and the main turbine was manually tripped. To prevent inadvertent criticality from inadvertent cooldown due to excessive steam leakage, the reactor was manually tripped. A four-hour, non-emergency report was made in accordance with 10 CFR 50.72(b)(2)(ii) on September 13, 1992, at 0152 PDT.

The root cause for this event is under investigation.

The corrective actions to prevent recurrence will include revising the operating procedures to include verifying that the main turbine computer speed reference resets to 0 RPM prior to re-latching the main turbine.

A supplemental LER will be issued to the NRC after the investigation has been completed and the root cause and corrective actions to prevent recurrence have been determined.

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#### I. <u>Plant Conditions</u>

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Unit 1 was in Mode 2 (Startup) at 0 percent power. \*

## II. <u>Description of Event</u>

#### A. Summary:

On September 12, 1992, at 2318 PDT, with Unit 1 in Mode 2 (Startup) at O percent power, plant operators initiated a manual reactor trip. The Unit 1 fifth refueling outage (1R5) was in progress. The main turbine (TA)(TRB) had been manually tripped and removed from service. The reactor (AC)(RCT) had been taken subcritical by inserting control rods (AA)(ROD). Because of reactor coolant system (RCS) (AB) cooldown, an operator was dispatched to re-latch the main turbine in a manner that would keep the main turbine stop valves closed. When the main turbine was re-latched, an unplanned main turbine acceleration was noted and the main turbine was manually tripped. To prevent inadvertent criticality from inadvertent cooldown due to excessive steam leakage, the reactor was manually tripped. A four-hour, non-emergency report was made in accordance with 10 CFR 50.72(b)(2)(ii) on September 13, 1992, at 0152 PDT.

## B. Background:

To prevent RCS cooldown following a plant shutdown, Diablo Canyon Power Plant (DCPP) standard operating practice has been to re-latch the main turbine with the stop valve equalizing valves closed. Re-latching the main turbine in this manner closes the stop valve trip pilot valves to isolate a main steam leakage path to the condenser.

On a main turbine trip, the DEH/P-2000 computer (IT)(CPU) is designed to receive a contact closure signal from the pressure switch (SB)(PS) (PS-22B Low Auto Stop Oil Pressure) that indicates the main turbine has been tripped. This PS-22B signal is used by the DEH/P-2000 computer to reset the main turbine reference signal to zero revolutions per minute (RPM) and maintain all main turbine valves closed for main turbine coastdown.

Governor valve (GV) (SB)(V) MS-1-FCV-140 had been isolated earlier in the operating cycle due to mechanical vibration problems. The stop valves are located immediately upstream of the GVs and are designed to shut off the steam supply to the main turbine.

At the time of the event, the unit was subcritical with source range detectors indicating approximately 1000 counts per second.

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### C. Event Description:

On September 12, 1992, at 2245 PDT, with Unit 1 in Mode 2 (Startup) at O percent power, Unit 1 shutdown for 1R5 was in progress. The shutdown had proceeded to the point where the main turbine had been tripped for coastdown and all main turbine stop valves and GVs had closed as designed. The reactor control rods were being inserted. Upon the main turbine trip, the DEH/P2000 computer either did not receive or did not respond to the PS-22B signal that reset the main turbine reference speed to 0 RPM. This condition kept the DEH/P2000 in speed control mode, providing a signal to the GVs calling for 1800 RPM demand.

The deficiency in the PS-22B signal to reset the main turbine reference speed caused the DEH/P2000's control system to integrate upward to a maximum speed demand as the main turbine deviated from 1800 RPM during coastdown.

On September 12, 1992, at 2256 PDT, the main turbine was re-latched with the air/oil interface valve isolated in accordance with Operating Procedure (OP) L-5, "Plant Cooldown from Minimum Load to Cold Shutdown." This process closed the equalizing valves around the stop valves to maintain a differential pressure across the stop valves. This differential pressure normally is sufficient to hold the stop valves closed against the actuator opening forces. After the stop valve bypasses have been closed, the main turbine is re-latched. The re-latch closes the main turbine stop valve shaft seal equalizing valves and reduces steam demand to prevent RCS cooldown.

Upon main turbine re-latch, only GV MS-1-FCV-142 responded to the DEH/P2000 control signal, while GVs MS-1-FCV-139 and MS-1-FCV-141 remained closed (MS-1-FCV-140 was previously isolated). The operators in the control room noted that MS-1-FCV-142 had lost its full closed indication and stop valve MS-1-FCV-145 opened completely (MS-1-FCV-142 in response to the DEH/P2000 signal and MS-1-FCV-145 due to steam leakage that equalized the pressure on either side of the valve).

An operator was dispatched to the main turbine to isolate the electrohydraulic (EH) fluid to MS-1-FCV-142. Shortly after the EH fluid was isolated to MS-1-FCV-142, MS-1-FCV-141 responded to the DEH/P-2000 signal and opened in an attempt to return main turbine speed to 1800 RPM and at 2302 PDT, a rapid main turbine acceleration was experienced. The combination of stop valve MS-1-FCV-145 being in an open position and MS-1-FCV-141 opening created a direct path into the main turbine. The main turbine accelerated rapidly to the 103 percent (1854 RPM) GV overspeed controller setpoint, at which point the GVs closed. Operators immediately tripped the main turbine when this condition was recognized. The maximum speed attained of 1870 RPM was well below the overspeed main turbine trip setpoint of 1980 RPM.

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		·	3.	Stop val is under valve pr the stop	ve MS-1-FCV rinvestigat roblems has valves wil	/-145 ( tion: been <sup>-</sup> 11 be <sup>-</sup>	openi To d ident inspe	ing late cific ecte	follow , beca ed, tł d.	vin aus ne	g ma e no equa	in ev liz	turbin vidence ving va	ien ot Ive	re-lat f stop es for	ch		b,
			<b>`4</b> .	EH trip replaced	header sole 1.	enoid v	valve	es SI	V-40,	SV	-41,	ar	nd SV-4	2 1	vill Ł	)e		×
	IV.	<u>Analy</u>	<u>sis of</u>	the Even	<u>nt</u>												•	
		A man perce Final condi (equa RPM. conse equip publi	ual ma snt pow Safet tion i l to 2 A man ervativ ment f c was	in turbin er is bou y Analysi s also ad 160 RPM). ual react e action unctioned not adver	ne trip with Inded by a p is Report (l Idressed in For this tor trip in by the cont i as designe rsely affect	h a sub previou FSAR) ( the FS event respon trol ro ed. Th ted by	osequ usly updat SAR a , the nse t oom o heref this	ant ana ce. at 12 co a opera fore s eve	manua A mai 20 per in tur manua ators. , the ent.	in co ce bi i he	reac ndit turb nt o ne s main All alth	tor ior ine f t pee tu saf ar	trip II ev desig he rat reac rbine ety-re d safe	fro ent ed tr lat ty	om 0 t in t oversp speed 1870 ip was ted of th	che beed 1 3 a ne	i	•
	<sup>.</sup> ۷.	Corre	<u>ctive</u>	<u>Actions</u>														
		A.	Immed	iate Corr	rective Act	ions:				•								

1. The Unit 1 main turbine and reactor were tripped.

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FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6) PAGE	: (3)
		YEAR SEQUENTIAL REVISION NUMBER	• •
DIABLO CANYON UNIT 1	0 5 0 0 0 2 7 5	92 - 0 1 8 - 0 0 7 0	<sup>&gt;F</sup> 7

- B. Corrective Actions to Prevent Recurrence:
  - 1. OP L-5 and OP C-3, "Main Unit Turbine," will be revised to include verifying that the main turbine speed reference is set to 0 prior to re-latching the main turbine.
  - 2. This LER will be revised to report the results of the investigation and applicable corrective actions taken as a result of this investigation.
- VI. Additional Information

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A. Failed Components:

To be determined.

B. Previous LERs on Similar Problems:

• None.

1062S/85K

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