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approximately 7 seconds after the test began. Plant operators followed appropriate emergency procedures ar stabilized in Mode 3 (Hot Standby) at 2305 PST. The cause of the reactor trip was a NIS negative rate trip s exceeded the trip setpoint. The NIS negative rate trip setpoint is being reset in accorn Westinghouse recommendation. B604160003 B60410 S PDR ADOCK 0500323 PDR	Power C turbin intup p as resp A nu ed the and the signal dance	Operatine trip program ponded uclear reacto unit to that with a	ion) at m as or trip was			

NRC Form 366 (9-83)

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U.S. NUCLEAR REGULATORY COMMISSION

APPROVED OMB NO. 3150-0104 EXPIRES: 8/31/88

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I. Initial Conditions

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The unit was in Mode 1 (Power Operation) at 100 percent power.

II. Description of Event

A. Event

At 2212 PST, March 11, 1986, an automatic reactor trip (AB)(RCT) and subsequent turbine (TA)(TRB) trip occurred during the performance of the full load rejection startup program test. The cause of the trip was a NIS negative rate trip signal that occurred approximately 7 seconds after initiation of the test.

Analysis of data recorded during the full load rejection test indicated that the setpoint for the NIS negative rate trip had been exceeded and that the reactor protection system (RPS) performed as designed. A significant event was declared at 2212 PST.

The appropriate emergency procedures were followed and the unit was stabilized in Mode 3 (Hot Standby) at 2305 PST, March 11, 1986.

B. Inoperable structures, components, or systems that contributed to the event:

None

C. Dates and approximate times for major occurrences.

1. March 11, 1986, 2212 PST: Event date

2. March 11, 1986, 2305 PST: Stable conditions achieved

D. Other system or secondary functions affected:

None

E. Method of discovery:

The event was immediately apparent due to alarms and indications in the control room.

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NRC Form 366A 19-831	ENSEE EVENT REP	PORT (LER) TEXT CONTINUATION APPRO							REGULATORY COMMISSION ED OMB NO. 3150-0104 8/31/88			
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F. Operator actions:

The operators followed the appropriate procedures and placed the unit in a stable condition.

G. Safety system responses:

- 1. The reactor trip breakers opened.
- The control rod drive mechanisms allowed the control rods to drop into the reactor.
- The turbine tripped.

III. Cause of Event

A. Immediate cause:

The NIS negative rate trip setpoint was exceeded and the RPS automatically tripped the reactor.

B. Root cause:

A step change of 2.5% rated thermal power was previously used to calibrate the negative rate trip set point to meet the limiting safety system setting of 5% with a 2 second time constant. Subsequent discussions with Westinghouse have indicated that this is excessively conservative. Westinghouse now recommends that the set point be calibrated by a step change of 5% rate thermal power.

IV. Analysis of Event

A full load rejection transient is considered a Condition I Operational Transient in the Diablo Canyon Units 1 and 2 FSAR Update Revision 1. The RPS performed as designed when the NIS negative rate trip setpoint was exceeded. The FSAR Update analysis conservatively assumes the worst set of initial conditions prior to the postulated operational transient. Since the unit was being operated within design parameters, there were no adverse safety consequences or implications resulting from this event.

V. Corrective Actions

Westinghouse was consulted on the appropriateness of the negative rate trip setpoint.

The NIS negative rate trip setpoint is being reset in accordance with their recommendation.

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NRC Form 368A (9-83) LICENSEE EVENT	REPORT (LFR) TEXT CONTIN	PORT (LFR) TEXT CONTINUATION					
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- VI. Additional Information
 - A. Failed components:

None

- B. Previous LERs on similar events:
 - LER 2-86-007 Reactor Trip Due to a NIS Negative Rate Trip Signal Caused by Two Dropped Rods During the Investigation of a Rod Control Urgent Failure Alarm.

A faulty control rod logic module was replaced as a result of this event. This action would not have prevented a NIS negative rate reactor trip during a full load rejection test.

PACIFIC GAS AND ELECTRIC COMPANY

JAMES D. SHIFFER VICE PRESIDENT NUCLEAR POWER GENERATION

April 10, 1986

PGandE Letter No.: DCL-86-094

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

Re: Docket No. 50-323, OL-DPR-82 Diablo Canyon Unit 2 Licensee Event Report 2-86-008-00 Nuclear Instrumentation System (NIS) Negative Rate Reactor Trip

Gentlemen:

Pursuant to 10 CFR 50.73(a)(2)(iv), PGandE is submitting the enclosed Licensee Event Report concerning actuation of the reactor protection system during the performance of the full load rejection test.

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

Kindly acknowledge receipt of this material on the enclosed copy of this letter and return it in the enclosed addressed envelope.

Sincerely, for J. D. Shiffer

Enclosure

cc: L. J. Chandler R. T. Dodds J. B. Martin B. Norton H. E. Schierling CPUC Diablo Distribution INPO

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