



Portland General Electric Company
Trojan Nuclear Plant
71760 Columbia River Hwy.
Rainier, Oregon 97048
(503) 556-3713

WRR-068-90
August 16, 1990

U.S. Nuclear Regulatory Commission
Document Control Desk
Washington DC 20555

Gentlemen:

Licensee Event Report No. 90-27 is attached. This report discusses an event in which two valves were inadvertently not included in the procedure for surveillance of Containment isolation valve positions.

Sincerely,

W. R. Robinson
General Manager
Trojan Nuclear Plant

c: Mr. John B. Martin
Regional Administrator, Region V
U.S. Nuclear Regulatory Commission

Mr. David Stewart-Smith
State of Oregon
Department of Energy

Mr. R. C. Barr
USNRC Resident Inspector
Trojan Nuclear Plant

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LICENSEE EVENT REPORT (LER)

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST: 50.0 HRS. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE RECORDS AND REPORTS MANAGEMENT BRANCH (P-530), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0104), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.

FACILITY NAME (1) **TROJAN NUCLEAR PLANT** DOCKET NUMBER (2) **050003441** PAGE (3) **1 OF 05**

TITLE (4) **Inadequate Implementation of a Programmatic Change in How a Technical Specification Surveillance was to be met Results in a Missed Surveillance due to an Inadequate Procedure**

EVENT DATE (5)			LER NUMBER (6)			REPORT DATE (7)			OTHER FACILITIES INVOLVED (8)		
MONTH	DAY	YEAR	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	MONTH	DAY	YEAR	FACILITY NAMES		DOCKET NUMBER(S)
07	17	90	90	027	0	08	16	90	n/a		050000
											050000

OPERATING MODE (9) **1** THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR 50. (Check one or more of the following) (11)

POWER LEVEL (10) 100	<input type="checkbox"/> 20.402(b)	<input type="checkbox"/> 20.405(e)	<input type="checkbox"/> 50.73(a)(2)(iv)	<input type="checkbox"/> 73.71(b)
	<input type="checkbox"/> 20.405(a)(1)(i)	<input type="checkbox"/> 50.30(e)(1)	<input type="checkbox"/> 50.73(a)(2)(v)	<input type="checkbox"/> 73.71(e)
	<input type="checkbox"/> 20.405(a)(1)(ii)	<input type="checkbox"/> 50.30(e)(2)	<input type="checkbox"/> 50.73(a)(2)(vi)	<input type="checkbox"/> OTHER (Specify in Abstract below and in Text, NRC Form 366A)
	<input type="checkbox"/> 20.405(a)(1)(iii)	<input checked="" type="checkbox"/> 50.73(a)(2)(ii)	<input type="checkbox"/> 50.73(a)(2)(viii)(A)	
	<input type="checkbox"/> 20.405(a)(1)(iv)	<input type="checkbox"/> 50.73(a)(2)(iii)	<input type="checkbox"/> 50.73(a)(2)(viii)(B)	
	<input type="checkbox"/> 20.405(a)(1)(v)	<input type="checkbox"/> 50.73(a)(2)(iii)	<input type="checkbox"/> 50.73(a)(2)(ix)	

LICENSEE CONTACT FOR THIS LER (12)

NAME **John D. Guberski, Compliance Engineer** TELEPHONE NUMBER **503 556-5523**

COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)

CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRPDS	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRPDS

SUPPLEMENTAL REPORT EXPECTED (14)

YES (If yes, complete EXPECTED SUBMISSION DATE) NO

EXPECTED SUBMISSION DATE (15) MONTH DAY YEAR

ABSTRACT (Limit to 1400 spaces, i.e., approximately fifteen single-space typewritten lines) (16)

On July 17, 1990, the Plant was in Mode 1 (Power Operation) with a generator load of 1140 MWe. During a review of a Plant procedure, Plant Systems Engineering Personnel identified that the monthly surveillance required by Trojan Technical Specification (TTS) 4.6.1.1, "Primary Containment - Containment Integrity" did not include twelve valves associated with the Containment penetration boundary for the Steam Generator Blowdown System. Two drain valves had not been included in the Plant procedures used to perform the required surveillance due to inadequate implementation of a 1988 programmatic change which added all vent, test, and drain valves within the Containment penetration boundary to the list of valves requiring TTS 4.6.1.1 surveillance. The other ten valves were not included as they are located outside of the first Containment isolation valve for a closed system inside Containment. The isolation design basis for this penetration is two valves outside Containment. Corrective action was to place these 12 valves in the procedure which is used to perform the TTS 4.6.1.1 required surveillance. Additional corrective actions will be to verify that valves that are part of the Containment penetration boundary are included in appropriate surveillance procedures. This review will include identifying the isolation design basis for the Containment penetration. Initially this review will be done using design drawings, with a physical walkdown of the Containment penetrations completed by the Summer of 1991. The 12 valves are placed in the closed position when placing the systems involved (Steam Generator Blowdown and Nitrogen Gas) in service. Therefore, this event did not cause a significant degradation of operational safety nor have any effect on public health and safety.

LICENSEE EVENT REPORT (LER)
TEXT CONTINUATION

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FACILITY NAME (1) TROJAN NUCLEAR PLANT	DOCKET NUMBER (2) 0 5 0 0 0 3 4 4	LER NUMBER (6)			PAGE (3)	
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TEXT (If more space is required, use additional NRC Form 305A's) (1):

DESCRIPTION OF OCCURRENCE

On July 17, 1990, the Plant was in Mode 1 (Power Operation) with a generator load of 1140 MWe. During a review of a Plant procedure, Plant Systems Engineering personnel determined that Steam Generator Blowdown System drain valves SG-159 and SG-160 needed to be included in a monthly surveillance of valve position to satisfy the requirements of Trojan Technical Specification (TTS) 4.6.1.1, "Primary Containment - Containment integrity". See Figure 1 for the location of valves SG-159 and SG-160. The Plant procedure (Periodic Operating Test 3-3, "Containment Penetration Valve Inservice Test) used to perform this required surveillance, for valves not locked in position, did not list SG-159 and SG-160 as valves to be checked. As these valves were also not on the locked valve list, Plant Systems Engineering personnel identified that the monthly surveillance of SG-159 and SG-160, required by TTS 4.6.1.1.a.1, had not been performed since the installation of these valves during the 1988 refueling outage. During the review of this event, it was also identified that two other Steam Generator Blowdown System drain valves (SG-161 and SG-162), as well as the Nitrogen System isolation valves (GS-169, 170, 171, 172, 173, 174, 175, and 176) to the Steam Generator Blowdown System were not included in Periodic Operating Test 3-3 (See Figure 1 for valve locations). This is a condition prohibited by the TTS and is being reported in accordance with the requirements of Title 10 of the Code of Federal Regulations, Part 50.73 (a)(2)(i)(B).

CAUSE OF OCCURRENCE

As described in LER 88-04, Portland General Electric Company implemented a programmatic change which added all vent, test, and drain connections within a Containment penetration boundary to the surveillance procedure which implemented TTS 4.6.1.1. The Piping and Instrumentation Diagrams, among other drawings, were used to identify valves which needed to be added to Periodic Operating Test 3-3 to implement this programmatic change.

Steam Generator Blowdown System Drain Valves SG-159 and SG-160 were added to the Steam Generator Blowdown System as part of a design modification during the 1988 refueling outage. The revision of Periodic Operating Test 3-3 to implement the programmatic change occurred in the same time frame as the performance of the modification and issuance of the revised Piping and Instrumentation Diagram showing Valves SG-159 and SG-160. The Plant Systems Engineering personnel revising Periodic Operating Test 3-3 used the current approved drawings and apparently were not aware of the design modification which would change the design drawing being installed during the 1988 refueling outage. Plant Systems Engineering personnel who reviewed the design modification, using drawings approved for construction, may not have been aware of the programmatic change under development at the time of their review of the modification.

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

Therefore, the cause of the missed surveillance for SG-159 and SG-160 was inadequate implementation of a programmatic change in how a surveillance requirement was to be met. The implementation of this programmatic change did not include a review of design modifications being installed during the 1988 refueling outage to determine if the modification affected a Containment penetration boundary.

The ten other valves, identified above, were not included in the revision of Periodic Operating Test 3-3 which implemented the programmatic change due to these valves being located outside of the first Containment isolation valve for a closed system inside Containment. Review of the description of Containment isolation for the Steam Generator Blowdown System can lead to the conclusion that, for this closed system inside Containment, the first valve outside of Containment is the penetration boundary. The isolation design basis for the Steam Generator Blowdown System Containment penetration uses two valves outside Containment for isolation, and it was therefore determined that these ten additional valves should be added to the surveillance requirements.

CORRECTIVE ACTIONS

The valves identified above were added to Periodic Operating Test 3-3.

A review of the drawings for Containment penetrations will be performed by October 31, 1990 to ensure that vent, test and drain valves within a Containment penetration boundary are listed in either Periodic Operating Test 3-3, or Administrative Order 3-13, "Control of Locked Valves and Switches". This review will include the isolation design basis for the Containment penetration.

The Containment Design Basis Document review, will verify that all vent, test and drain valves physically within a Containment penetration boundary are listed in either Periodic Operating Test 3-3, or Administrative Order 3-13. This review will be completed by September 30, 1991.

The current design change process requires that the design modification package be reviewed by Plant departments to identify needed procedure changes. Any field changes are routed to the same departments. Applicable departments are represented at the turnover walkdown of each modification to ensure all aspects of the modification are ready for turnover to Operations.

SIGNIFICANCE OF OCCURRENCE

The Operating Instruction for the Steam Generator Blowdown System places the drain valves in the closed position as part of preparing the system for operation. Also, the outlet line from these valves is capped. As the Steam Generator Blowdown System is normally in operation to control Steam Generator

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TEXT (If more space is required, use additional NRC Form 365A's) (17)

chemistry, leakage from the drain line due to valve seat leakage or the valve being in the open position would be detected by Operations personnel during routine tours of the Plant. The Operating Instruction for the Nitrogen System places the isolation valves of concern in the closed position as part of preparing the system for operation. Therefore, this event did not cause a significant degradation of operational safety nor have any effect on public health and safety.

PREVIOUS SIMILAR EVENTS

A review of Trojan Nuclear Plant License Event Reports submitted since 1987 was performed. This review identified three previous Licensee Event Reports involving missed surveillances due to inadequate procedures. The numbers and titles of those events are listed below.

LER No.	Title
88-04	Containment Penetrations not Verified Closed as Required by Technical Specification..
88-13	Component Cooling Water Valve Positions Not Verified as Required By Technical Specification Surveillance Requirements.
89-28	Personnel Error in Preparing Procedure Results in Missed Rod Position Surveillance.

LICENSEE EVENT REPORT (LER)
TEXT CONTINUATION

APPROVED OMB NO. 3150-0104
EXPIRES: 4/30/92

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST. SEND HERE FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE RECORDS AND REPORTS MANAGEMENT BRANCH (FAS-30) U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20545. AND TO THE PAPERWORK REDUCTION PROJECT (3150-0104), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.

FACILITY NAME (1)

TROJAN NUCLEAR PLANT

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