NRC FORM 366
(7-77)

U. S. NUCLEAR REGULATORY COMMISSION

LICENSEE EVENT REPORT

CONTROL BLOCK: | | | | | | | (1) (PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

01 | F L T P S 3 (2) | 0 0 - 0 0 0 0 0 - 0 0 (3) | 4 1 1 1 1 (4) | _ _ (5)

LICENSEE CODE | LICENSE NUMBER | LICENSE TYPE | CAT

CON'T 01 REPORT SOURCE L (6) | 0 5 0 0 0 2 5 0 (7) | 0 9 1 7 8 2 (8) | 1 0 1 8 8 2 (9)

DOCKET NUMBER | EVENT DATE | REPORT DATE

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

02 In accordance with the Inservice Inspection and Testing Programs, a test was
03 being performed on auxiliary feedwater pumps A & C. C auxiliary feedwater
04 pump failed to run for the required 15 minutes. A and B pumps were in
05 satisfactory working order. This is reportable in accordance with
06 T.S.6.9.2.b.2. The health and safety of the public was not affected.
07 Similar events were reported as LERs 250-81-4, 250-79-36, 250-79-28, 250-79-34
08 250-79-17 and 250-74-7.

	SYSTEM CODE	CAUSE CODE	CAUSE SUBCODE	COMPONENT CODE	COMP SUBCODE	VALVE SUBCODE
09	H H (11)	E (12)	B (13)	V A L V E X (14)	F (15)	H (16)

(17) LER/RO REPORT NUMBER	EVENT YEAR		SEQUENTIAL REPORT NO.		OCCURRENCE CODE	REPORT TYPE		REVISION NO.
	8 2	—	0 1 3	/	0 3	L	—	0

ACTION TAKEN	FUTURE ACTION	EFFECT ON PLANT	SHUTDOWN METHOD	HOURS (22)	ATTACHMENT SUBMITTED	NPRD-4 FORM SUB.	PRIME COMP. SUPPLIER	COMPONENT MANUFACTURER
B (18)	F (19)	Z (20)	Z (21)	0 0 0 0	Y (23)	Y (24)	L (25)	F 1 3 5 (26)

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

10 The steam turbine pressure control valve CV-3707 did not close completely.
11 This resulted in poor control of the steam pressure, causing the safety relief
12 valve to lift and the trip valve to close. Disassembly of CV-3707 revealed
13 two pieces of foreign metal under the valve seat. The valve was repaired
14 and its controls adjusted. The pump was returned to service in 44 hours.

	FACILITY STATUS	% POWER	OTHER STATUS (30)	METHOD OF DISCOVERY	DISCOVERY DESCRIPTION (32)
15	E (28)	1 0 0 (29)	NA	C (31)	Inservice inspection

	ACTIVITY RELEASED	CONTENT OF RELEASE	AMOUNT OF ACTIVITY (35)	LOCATION OF RELEASE (36)
16	Z (33)	Z (34)	NA	NA

	PERSONNEL EXPOSURES NUMBER	TYPE	DESCRIPTION (39)
17	0 0 0 (37)	Z (38)	NA

	PERSONNEL INJURIES NUMBER	DESCRIPTION (41)
18	0 0 0 (40)	NA

	LOSS OF OR DAMAGE TO FACILITY (43) TYPE	DESCRIPTION
19	Z (42)	NA

	PUBLICITY ISSUED	DESCRIPTION (45)	NRC USE ONLY
20	N (44)	NA	

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PDR ADOCK 05000250
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Additional Event Description and Probable Consequences

In accordance with the ASME Inservice Inspection and Testing Program, a test was being performed on the A and C auxiliary feedwater pumps. All three auxiliary feedwater pumps had successfully passed the monthly periodic test as required by T.S.4.10.1; however, in earlier tests, the developed pump head of pumps A and C had fallen in the alert range, requiring that the frequency of the test be doubled for those two pumps. On 9/17/82, the test was repeated for A and C pumps using OP 0209.3 (Inservice Pump Testing Program Implementation Procedure for Auxiliary Feedwater Pumps) and 7304.1 (Auxiliary Feedwater System - Periodic Test). C pump failed to run for the full 15 minutes. A and B pumps were in satisfactory working order. This is reportable in accordance with T.S.6.9.2.b.2. The health and safety of the public was not affected. Similar events were reported as LERs 251-81-4, 250-79-36, 250-79-34, 250-79-28, 250-79-17 and 250-74-7.

Additional Cause Description and Corrective Actions

The auxiliary steam turbine pressure control valve CV-3707 did not close completely. This resulted in poor control of the steam pressure, causing the 400 psi safety relief valve to lift and the trip valve to close. Disassembly of CV-3707 revealed two pieces of foreign metal under the valve seat, which were obstructing proper closure of the valve. Mechanical Maintenance replaced the gasket, teflon packing sets, valve plug, and valve stem. At this time several minor repairs and adjustments were determined to be necessary and were made by Instrumentation and Control. The booster relay of differential pressure transmitter 2403 was replaced and the transmitter was calibrated. The AD relay of differential pressure controller 2403 was nulled and calibrated. The booster relay and proportional controller for pressure transmitter 3707 were replaced and the unit was calibrated. The integral unit for pressure comparator 3707 was replaced and calibrated. The valve positioner was calibrated. Adjustments were also made to the trip valve linkage. The pump was successfully retested and returned to service at 7:15 a.m. on 9/19/82. The pump had been considered inoperable for a total of 44 hours. During the Unit 4 steam generator repair outage, new high pressure casings for the auxiliary feedwater pump turbines are planned to be installed. The auxiliary steam pressure turbine control valves will no longer be required and will be removed from the system.

The source of the two pieces of foreign metal has not yet been determined. An investigation is currently in progress to determine the source of the foreign metal. It is suspected that the source might be a piece of a cage located inside the body of any one of twelve (six per unit) auxiliary feedwater pump steam-supply stop-check-valves upstream of CV-3707. These valves are normally locked in the open position and are used to isolate the steam-stop motor-operated-valves for maintenance. The six valves from Unit 4 will be checked during our current steam generator repair outage. The six valves from Unit 3 will be checked at the next outage of sufficient duration. Also, an engineering evaluation is currently being performed in order to change these twelve valves with valves of a different design and/or manufacturer. The present valves are manufactured by Walworth, Co. and replacement parts are not readily available. If the outcome of this investigation reveals additional relevant information not mentioned in this LER, an update to this LER will be submitted.

Component Data

Control valve 3707 is a 4-inch globe valve manufactured by Fisher-Governor. The model number is 657 HS. Pressure comparator 3707 is an AD model, manufactured by Bailey. Pressure transmitter 3707 is a bourdon type with model number 4160, manufactured by Fisher Controls. Differential pressure controller 2403 is a Bailey model AD 52002. Differential pressure transmitter 2403 is a bellows indicating type with model number 225, manufactured by Barton.