

LICENSEE EVENT REPORT (LER)

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|---------------------------------------|--|--|--|--|--|--------------------------------------|--|--|--|--------------------|--|
| FACILITY NAME (1) Sequoyah, Unit 2 | | | | | | DOCKET NUMBER (2) 0 5 0 0 0 3 2 8 | | | | PAGE (3) 1 OF 2 | |
|---------------------------------------|--|--|--|--|--|--------------------------------------|--|--|--|--------------------|--|

TITLE (4)
ESF and Turbine-driven Auxiliary Feedwater Pump (TDAFP) Inoperability

| 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) | | | | | | | | | | | |
| 0 | 6 | 30 | 8 | 4 | 8 | 4 | 0 | 0 | 9 | 0 | 0 | 0 | 7 | 2 | 3 | 8 | 4 | 0 | 5 | 0 | 0 | 0 |

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|-------------------------|--|-------------------------------------|----------------------|--------------------------|--|--------------------------|--|--|--|--|--|
| OPERATING MODE (9) 2 | THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more of the following) (11) | | | | | | | | | | |
| | 20.402(b) | <input checked="" type="checkbox"/> | 50.73(a)(2)(iv) | <input type="checkbox"/> | 73.71(b) | <input type="checkbox"/> | | | | | |
| | 20.405(a)(1)(i) | <input type="checkbox"/> | 50.73(a)(2)(v) | <input type="checkbox"/> | 73.71(c) | <input type="checkbox"/> | | | | | |
| | 20.405(a)(1)(ii) | <input type="checkbox"/> | 50.73(a)(2)(vii) | <input type="checkbox"/> | OTHER (Specify in Abstract below and in Text, NRC Form 366A) | <input type="checkbox"/> | | | | | |
| | 20.405(a)(1)(iii) | <input type="checkbox"/> | 50.73(a)(2)(viii)(A) | <input type="checkbox"/> | | | | | | | |
| | 20.405(a)(1)(iv) | <input type="checkbox"/> | 50.73(a)(2)(viii)(B) | <input type="checkbox"/> | | | | | | | |

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|---|--|--|--|---|--|
| LICENSEE CONTACT FOR THIS LER (12) | | | | | |
| NAME Glenn Duggin, Compliance Section Engineer | | | | TELEPHONE NUMBER 6 1 5 8 7 0 - 6 1 4 6 | |

| COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13) | | | | | | | | | | |
|--|--------|-----------|--------------|---------------------|-------|--------|-----------|--------------|---------------------|--|
| CAUSE | SYSTEM | COMPONENT | MANUFACTURER | REPORTABLE TO NPRDS | CAUSE | SYSTEM | COMPONENT | MANUFACTURER | REPORTABLE TO NPRDS | |
| X | B/A | 0 0 2 0 | L 2 0 0 | Yes | | | | | | |

| | | | | | | | |
|---|--|--|-------------------------------|--|-------|-----|------|
| SUPPLEMENTAL REPORT EXPECTED (14) | | | EXPECTED SUBMISSION DATE (15) | | MONTH | DAY | YEAR |
| <input type="checkbox"/> YES (If yes, complete EXPECTED SUBMISSION DATE) <input checked="" type="checkbox"/> NO | | | | | | | |

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

On 06/30/84, maintenance was being performed on main feedwater pump (MFP) 'B'. MFP 'A' was in the reset condition. The two motor-driven auxiliary feedwater pumps (MDAFP) were running. MFP 'A' was accidentally tripped and generated an auto start signal (ESF actuation) for the auxiliary feedwater (AFW). The turbine-driven auxiliary feedwater pump (TDAFP) did not start due to flow control valve (FCV) 1-15, main steam supply, failing to close. FCV-1-15 was repaired and returned to service. There was no effect upon public health or safety, and no plant safety margins were exceeded.

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PDR ADOCK 05000328
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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

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|-------------------|-------------------|----------------|-------------------|-----------------|----------|-------|
| FACILITY NAME (1) | DOCKET NUMBER (2) | LER NUMBER (6) | | | PAGE (3) | |
| | | YEAR | SEQUENTIAL NUMBER | REVISION NUMBER | | |
| | | 84 | -009 | -000 | 02 | OF 02 |

Sequoyah, Unit 2 05000328

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

At 1543C on 06/30/84, the turbine-driven auxiliary feedwater pump (TDAFP) was determined by Operations personnel to be inoperable. This event occurred while unit 1 was in mode 1 (100% power, 2235 psig, 578 degrees F) and unit 2 was in mode 2 (3% power, 2235 psig, 548 degrees F). The TDAFP was returned to service at 2110C on 07/01/84.

Main feedwater pump (MFP) 'B' was in the tripped position for maintenance work on the hydraulic control system. MFP 'A' was reset for maintenance work on the governor valve limit switches. Personnel closed the main steam supply isolation valves 17 and 18 to prevent an auto start of the TDAFP. The limiting condition for operation (LCO) should have been entered at this time.

MFP 'A' was accidentally tripped and initiated a start signal (ESF) to the TDAFP. Due to flow control valves (FCV) 1-17 and -18 being closed, pressure did not increase on the TDAFP discharge and the steam supply transfer (SST) relay sealed in. The SST relay initiated a steam supply transfer from FCV-1-15 to FCV-1-16 and closed FCV-1-51 (trip and throttle valve). FCV-1-15 failed to close, therefore preventing FCV-1-16 from opening and the SST relay from dropping out. Personnel reset MFP 'A' and reopened FCV-1-17 and -18. The inoperability of the TDAFP was not yet recognized.

After shift change, MFP 'B' was still tripped and MFP 'A' tripped again due to a loose connection on the terminal block. The same pumps were running as before, but this time, personnel recognized that the LCO applied and entered the action statement. FCV-1-15 was open as before, and FCV-1-51 was closed. The SST relay was also sealed in. FCV-1-16 was opened and dropped out the SST relay. FCV-1-51 opened and the TDAFP performed correctly. FCV-1-15 was repaired by cleaning grease from the torque switch and the TDAFP was returned to service.

An Operations night order was issued on 07/06/84 explaining the sequence of events, the errors made, and the action that should have been taken. A training letter will be written and issued concerning this event for use in the Operations classes. The grease on the switch of FCV-1-15 is considered an isolated case.

There was no effect on public health or safety, and no plant safety margins were exceeded.

Previous occurrences - none.

TENNESSEE VALLEY AUTHORITY

Sequoyah Nuclear Plant
Post Office Box 2000
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July 23, 1984

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

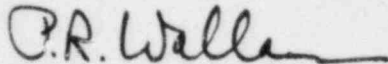
Gentlemen:

TENNESSEE VALLEY AUTHORITY - SEQUOYAH NUCLEAR PLANT UNIT 2 - DOCKET NO.
50-328 - FACILITY OPERATING LICENSE DPR-79 - REPORTABLE OCCURRENCE REPORT
SQRO-50-328/84009

The enclosed licensee event report provides details concerning the engineered safety features (ESF) actuation caused during maintenance on a main feedwater pump and resulting turbine-driven auxiliary feedwater pump inoperability. This event is reported in accordance with 10 CFR 50.73, paragraph a.2.iv.

Very truly yours,

TENNESSEE VALLEY AUTHORITY



P. R. Wallace
Plant Manager

Enclosure
cc (Enclosure):

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