

LICENSEE EVENT REPORT (LER)

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| FACILITY NAME (1) VERMONT YANKEE NUCLEAR POWER STATION | DOCKET NUMBER (2) 0 5 0 0 0 2 7 1 | PAGE (3) 1 OF 0 2 |
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| TITLE (4) Loss of Primary Containment Due to Break in Tubing in Containment Monitor | | |
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| 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 | 0 | 6 | 8 | 5 | 0 | 0 | 6 | 0 | 0 | 0 | 0 5 0 0 0 |
| 0 | 6 | 0 | 6 | 8 | 5 | 0 | 0 | 6 | 0 | 0 | 0 | 0 5 0 0 0 |

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| THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more of the following) (11) | | | | | | | | | | | | |
| OPERATING MODE (9) | | 20.402(b) | | | | 20.405(c) | | | | 50.73(a)(2)(iv) | | 73.71(b) |
| | | 20.405(a)(1)(i) | | | | 50.36(c)(1) | | | | 50.73(a)(2)(v) | | 73.71(c) |
| | | 20.405(a)(1)(ii) | | | | 50.36(c)(2) | | | | 50.73(a)(2)(vii) | | OTHER (Specify in Abstract below and in Text, NRC Form 365A) |
| | | 20.405(a)(1)(iii) | | | | 50.73(a)(2)(i) | | | | 50.73(a)(2)(viii)(A) | | |
| | | 20.405(a)(1)(iv) | | | | 50.73(a)(2)(ii) | | | | 50.73(a)(2)(viii)(B) | | |
| POWER LEVEL (10) 1 0 0 | | 20.405(a)(1)(v) | | | | 50.73(a)(2)(iii) | | | | 50.73(a)(2)(ix) | | |

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| LICENSEE CONTACT FOR THIS LER (12) | | | | | | | | | | | |
| NAME James P. Pelletier, Plant Manager | | | | | | | | | | TELEPHONE NUMBER 8 0 2 2 5 7 - 7 7 1 1 | |

| COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13) | | | | | | | | | | | |
|--|--------|-----------|---------------|---------------------|--|-------|--------|-----------|--------------|---------------------|--|
| CAUSE | SYSTEM | COMPONENT | MANUF. TURER | REPORTABLE TO NPRDS | | CAUSE | SYSTEM | COMPONENT | MANUF. TURER | REPORTABLE TO NPRDS | |
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| SUPPLEMENTAL REPORT EXPECTED (14) | | | | | | | | | | EXPECTED SUBMISSION DATE (15) | | MONTH | DAY | YEAR |
| YES (If yes, complete EXPECTED SUBMISSION DATE) <input checked="" type="checkbox"/> NO <input type="checkbox"/> | | | | | | | | | | | | | | |

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

On 6/6/85 during normal operation at 100% power a trouble alarm was received on the SII Containment Monitor. Investigation revealed a break in the tubing inside the analyzer which resulted in a loss of primary containment. The analyzer was isolated and an Unusual Event Terminated declared. The broken tubing and associated fittings were replaced. After satisfactory leak testing the monitor was returned to service. The Containment Monitor is utilized to monitor hydrogen and oxygen concentrations.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED OMB NO. 3150-0104

EXPIRES: 8/31/85

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| FACILITY NAME (1) VERMONT YANKEE NUCLEAR POWER STATION | DOCKET NUMBER (2) 0 5 0 0 0 2 7 1 8 5 — 0 0 6 — 0 0 0 2 | LER NUMBER (6) | | | PAGE (3) | | |
| | | YEAR | SEQUENTIAL NUMBER | REVISION NUMBER | | | |
| | | | | | | | |

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

On 6/6/85 the plant was operating at 100% power, steady state conditions. At 1040 a trouble alarm was received on the SII Containment Monitor. A sample pump failure was suspected and a Maintenance Request was initiated for repair. At 1317 the instrument technician reported that there was a 1/4 inch tubing break inside the analyzer cabinet. The technician was instructed to isolate the analyzer. At 1329 an Unusual Event Terminated was declared as a result of the loss of Primary Containment through the tubing break. The tubing break occurred at the tubing fitting on the suction side of the sample pump. During repair it was noted that the fitting body was a Parker fitting while the ferrule and nut were Greylock. The tubing makes a 90° bend immediately upon leaving the fitting. It is thought that during prior pump repairs the force necessary to remove the ferrule from the fitting was generated by the nut pushing on the 90° bend in the tubing. This created a stress point in the tubing and the pump vibration eventually caused the tubing to fail. The fitting and the broken section of tubing were replaced. The tubing routing was modified slightly to eliminate the 90° bend at the pump. To prevent any future failures this change is being performed on the suction and discharge lines of both analyzers. After satisfactory leak testing the analyzers were returned to service.

The analyzers are Model 225 Containment Monitors manufactured by Teledyne Analytical Instruments.

This event resulted in a break in Primary Containment the size of the inside diameter of the 1/4 inch tubing (0.174 inches). A survey of the inside of the cabinet revealed no radioactive contamination as a result of the leak. The sample lines which supply the containment monitors also supply the containment radiation monitor. Thus, the leak was indirectly monitored to verify there was no release of radioactive material.

There were no adverse affects to public health or safety. There have been no similar occurrences reported to the Commission.



VERMONT YANKEE NUCLEAR POWER CORPORATION

P. O. BOX 157
GOVERNOR HUNT ROAD
VERNON, VERMONT 05354

July 3, 1985

VYV85-314

U.S. Nuclear Regulatory Commission
Document No. 50-271
Washington, D.C. 20555

REFERENCE: Operating License DPR-28
Docket No. 50-271
Reportable Occurrence No. LER 85-06

Dear Sirs:

As defined by 10CFR50.73, we are reporting the attached Reportable Occurrence as LER 85-06.

Very truly yours,

VERMONT YANKEE NUCLEAR POWER CORPORATION

James P. Pelletier
Plant Manager

RDP/drc

cc: Regional Administrator
USNRC Office of Inspection and Enforcement
Region I
631 Park Avenue
King of Prussia, Pennsylvania 19406

IE 22
11