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X NO

YES III yes complete EXPECTED SUBMISSION DATE!

SUPPLEMENTAL REPORT EXPECTED (14)

While performing the annual test of the fire protection system for the Containment Cable Vault, the actuation of the CO, system did not shut off the Containment Cable Vault Exhaust Fan.

Immediate corrective action taken was to correctly wire the exhaust fan controls to match design documents and then to verify that the fan would operate as required.

MONTH

DAY

YEAR

NAC	Form	366A
19.83	1	

#### LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED OMB NO. 3150-0104 EXPIRES: 8/31/85

FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6)	PAGE (3)			
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TEXT (If more space is required, use additional NRC Form 366A's) (17)

On March 20, 1985 at 1510 hours, while the plant Operations Department was performing the Containment Cable Vault CO, System Flow Test, Valve and Ventilation Test, it was discovered that the actuation of the CO, system (KQ) did not shut off the Containment Cable Vault Exhaust Fan (FAN). This is inconsistent with Technical Specification 4.15.8.1.b.

# Reportability

This event is reportable because of its deviation from the plant's Technical Specifications (50.73(a)(2)(i)(C)).

# Fan Control Description

The schematic drawing for the fan controls shows that both the supply and exhaust fan are controlled by the same circuit breaker (52) and contactor (29). In the event of a CO<sub>2</sub> system actuation, the contactor would trip them both off, as well as close the electro-pneumatically controlled intake damper (UDMP).

In reality, the exhaust fan was wired directly to the line side of the contactor after the circuit breaker thereby voiding any control the contactor may have had over the exhaust fan's operation.

A chronological history of the fan scheme and surveillance is as follows:

1965 System originally designed and installed.

November 3, 1966 Schematic drawings of the fan controls were revised to relocate the fan controls. It is believed that this revision was to correct the control scheme, but this modification was not changed in the field.

March, 1980 Plant Design Change Request 326 modified the CO<sub>2</sub> fire suppression system. The system retest that was performed functionally checked the CO<sub>2</sub> system but did not verify operation of the fan/damper controls because they weren't affected by this modification.

March 20, 1981 Plant Surveillance Procedure SUR 5.5-20 was approved (supporting the new Plant Fire Protection Technical Specifications) to test the cable vault CO<sub>2</sub> system and verify flow, valve, and ventilation/damper operation.

NAC Form 366A

## LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED OM8 NO. 3150-0104 EXPIRES: 8/31/85

FACILITY NAME (1)	DOCKET NUMBER (2)		LI	ER NUMBER (6)	PAGE (3)					
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TEXT (If more space is required, use additional NRC Form 366A's) (17)

This original procedure required Connecticut Yankee Quality Control (CYQC) to witness and verify the following:

- 6.16 Verify supply fan F-31-A operating and inlet damper is open.
- 6.18 Discharge both main bank test cylinders.
- 6.19 Check supply fan F-31-A OFF and its inlet damper shut.

March 24, 1981 This test was satisfactorily performed.

May 19, 1981 Revision 1 was made to SUR 5.5-20 to have CYQC witness and verify the following:

- 6.16 Verify supply fan F-31-A operating and inlet damper is open, and exhaust fan F-32-A operating.
- 6.18 Discharge both main bank test cylinders.
- 6.19 Check supply fan F-31-A OFF and its inlet damper shut, and exhaust fan F-32-A OFF..

January 28, 1982 Revision 2 made no pertinent changes.

March 24, 1982 SUR 5.5-20, Rev. 2 was performed and the above steps were signed and witnessed.

June 29, 1982 Revision 3 made no pertinent changes.

January 11, 1983 An "As Built Verification Program" failed to discover the inconsistencies described above.

January 17, 1983 Generation Fire Protection Engineering issued CYAPCO's Fire Hazard Analysis which states for the Containment Cable Vault Protection:

- o Intake and exhaust fans shutdown on actuation of the CO<sub>2</sub> system, and
- o Automatic fire dampers in the intake and exhaust ducts shutdown or actuation of the CO<sub>2</sub> system.

March 23, 1983 SUR 5.5-20, Rev. 3 was performed and the above steps were signed and inspected.

NRC Form 368A (9-83)	NRC	Form	36\$A
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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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TEXT (If more space is required, use additional NRC Form 366A's) (17)

March 8, 1984 SUR 5.5-20, Rev. 3 was performed and the above steps were

signed and inspected.

July 6, 1984 Revision 4 modified the procedure to meet new format

requirements. No pertinent changes.

March 20, 1985 SUR 5.5-20, Rev. 4 was performed and the subject discrepancy

was discovered.

### Failure Cause

Investigation into the reasons why this procedure could have been performed three times prior to discovering the wiring error reveals that step 6.19 was misinterpreted. The step requires CYQC to verify that the supply and exhaust fans are off and the supply damper closed. However, this was incorrectly read as a step to be performed rather than a condition to be verified. (Accordingly, the fans were deenergized and the damper closed at this step and then checked off and shut respectively.)

It is felt that because of the recent increased emphasis by management on procedural compliance, the wiring error was discovered at this time and not previously.

#### Corrective Action

The immediate corrective action taken was to correctly wire the fan to be controlled in the manner prescribed. When the test was performed March 20, 1985, the supply fan contactor was verified to operate on  ${\rm CO}_2$  discharge. After the scheme was wired correctly, a retest of the contactor controlling both F-31-A and F-32-A proved operability of the scheme and, therefore, the satisfactory completion of SUR 5.5-20.

Surveillance Procedure SUR 5.5-20 will be revised prior to next performance of this test to clearly define the method of verifying that the system operated properly.

CONNECTICUT YANKEE ATOMIC POWER COMPANY

HADDAM NECK PLANT

RR#1 • BOX 127E • EAST HAMPTON, CONN. 06424

May 7, 1985

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

Reference:

Facility Operating License No. DPR-61

Docket No. 50-213

Reportable Occurrence 50-213/LER 85-008-01

Gentlemen:

This letter forwards the Licensee Event Report 85-008-01, revised to reflect a corrected typographical error.

Very truly yours,

Richard H. Graves

Station Superintendent

RHG/JDB

Attachment: LER 85-008-01 cc: Dr. T. E. Murley, Region 1

IE32