

## LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) Haddam Neck										DOCKET NUMBER (2) 0 5 0 0 0 2 1 3 1 OF 0 4										PAGE (3) 1 OF 0 4	
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TITLE (4) Unplanned Gaseous Release											
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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 9	1 9	8 5	8 5	0 2 5	0 0	1 0	1 8	8 5				0 5 0 0 0		

OPERATING MODE (9) 1		THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR § (Check one or more of the following) (11)									
POWER LEVEL (10) 1 0 0		20.402(b)		20.406(c)		50.73(a)(2)(iv)		73.71(b)			
		20.406(a)(1)(i)		50.38(c)(1)		50.73(a)(2)(v)		73.71(c)			
		20.406(a)(1)(ii)		50.38(c)(2)		50.73(a)(2)(vii)		OTHER (Specify in Abstract below and in Text, NRC Form 366A)			
		20.406(a)(1)(iii)		50.73(a)(2)(i)		X 50.73(a)(2)(viii)(A)					
		20.406(a)(1)(iv)		50.73(a)(2)(ii)		50.73(a)(2)(vii)(B)					
		20.406(a)(1)(v)		50.73(a)(2)(iii)		50.73(a)(2)(x)					

LICENSEE CONTACT FOR THIS LER (12)										TELEPHONE NUMBER									
NAME Richard W. Kasuga, Associate Engineer										AREA CODE 2 0 3 2 6 7 1 2 5 5 6									

COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)																			
CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRC	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRC										
A	W	E	P	S	F	X	1	9	1	9	NO								

SUPPLEMENTAL REPORT EXPECTED (14)										EXPECTED SUBMISSION DATE (15)		MONTH	DAY	YEAR
YES (If yes, complete EXPECTED SUBMISSION DATE)										X NO				

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

During routine scheduled maintenance on a pressure actuated valve in the gaseous waste system, an unplanned radioactive release to the environment was detected. The release occurred when an isolation valve, required to be closed on the station tagout sheet, was inadvertently left open. This allowed radioactive gas, from the on-line waste gas decay tank, to escape through a pressure gage connection that had been opened to vent the system.

It has been determined that operator error was the root cause of this release. However, ambiguous valve tag numbers were a contributing factor.

Corrective action taken includes: (1) discussion of the event with the operators involved and (2) clearly relabeling the valves to prevent recurrence.

Event Description

On September 19, 1985 at approximately 0850 hours, with the plant operating at 100% power, a reactor operator received the main stack high radiation alarm. It was quickly determined that the source of the release was due to the planned maintenance on DH-PV-1170 in the gaseous waste system (system code WE). The release was terminated when equipment operators shut WG-TCV-1171 (see system sketch).

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## LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

APPROVED OMB NO. 3150-0104

EXPIRES: 8/31/85

FACILITY NAME (1)  Haddam Neck	DOCKET NUMBER (2)  0   5   0   0   0   2   1   3	LER NUMBER (6)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
		8   5	—   0   2   5	—   0   0	0   2	OF	0   4

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

Reportability

This event is reportable because the airborne radioactivity of the release exceeded by more than 2 times the applicable concentrations of the limits specified in Appendix B, table II of 10CFR20, when averaged over a period of one hour. (10 CFR50.73(a)(2)(viii)(A)).

Root Cause Analysis

On September 19, an equipment operator was assigned to tagout the valve stem leakoff cooler in accordance with station tagout clearance #636. Upon entering the radioactive trench, he found one of the valves labeled only as #401. He proceeded to shut #401 concluding that it was WG-V-401, the waste gas outlet valve. However, the operator was inadvertently shutting CC-V-401, the component cooling water inlet valve to the cooler.

At approximately 0830 hours, Maintenance was to begin work on DH-PV-1170. To vent the system, pressure gage PIC-1170 was removed and DH-V-1170 opened. However, instead of venting the valve stem leakoff cooler, opening DH-V-1170 vented the on-line 'A' waste gas decay tank via WG-V-401.

This occurred because normal system operation allows the waste gas decay tanks to supply the waste gas surge tank when the surge tank pressure drops. However, instead of the decay tank supplying gas to the surge tank it was able to vent through the open connection at DH-V-1170. This was later verified when it was found that the 'A' waste gas decay tank's pressure had dropped 10 psig.

Operator Response

After the reactor operator received the main stack alarm, he quickly determined the source and told the equipment operators to shut WG-TCV-1171. This action terminated the release. At 0930 hrs., they found that the 'A' waste gas decay tank had dropped about 10 psig, thus making the incident reportable as an unplanned release. The appropriate local, state and federal agencies were notified subsequent to this finding.

## LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

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EXPIRES 8/31/85

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Haddam Neck	05000213	85	025	00	03	OF	04

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

Potential Safety Consequence

The release rate of noble gases for this discharge was  $6.14 \times 10^3$  uCi/sec (14% of technical specification limit). The calculated total dose at the site boundary was .166 mr. However, the percent maximum permissible concentration (% MPC) at the site boundary averaged over one hour was determined to be 421%. This exceeded the reportable limit of 200% MPC in 10CFR50.72.

The total discharge to the environment was 19.7 curies. This release did not cause any personnel exposure limits to be exceeded.

Corrective Action

Corrective action taken includes (1) discussion of the event with the operators involved, (2) alerting all equipment operators of the incident and (3) clearly labeling subject valves to prevent recurrence.

There have been no known similar events.

FACILITY NAME (1)

DOCKET NUMBER (S)

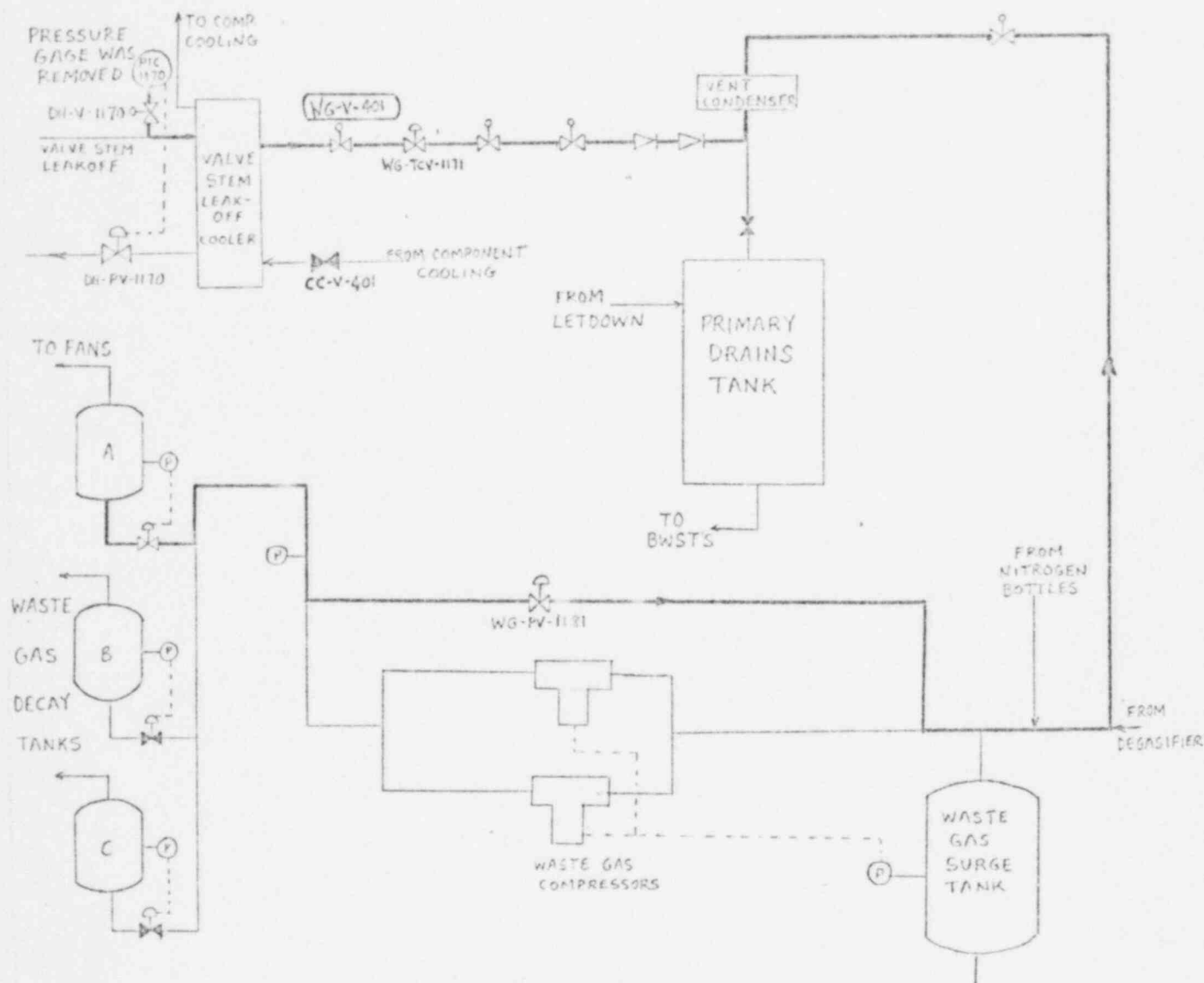
LER NUMBER (6)

PAGE (3)

Haddam Neck

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TEXT (If more space is required, use additional NRC Form 360A's) (17)



## GASEOUS WASTE SYSTEM



CONNECTICUT YANKEE ATOMIC POWER COMPANY

HADDAM NECK PLANT

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

October 18, 1985

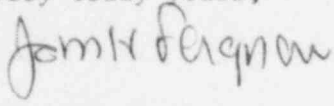
U. S. Nuclear Regulatory Commission  
Document Control Desk  
Washington, D. C. 20555

Reference: Facility Operating License No. DPR-61  
Docket No. 50-213  
Reportable Occurrence LER 50-213/85-025-00

Gentlemen:

This letter forwards the Licensee Event Report 85-025-00, required to be submitted within thirty days, pursuant to the requirements of Connecticut Yankee Technical Specifications.

Very truly yours,

*ra* 

Richard H. Graves  
Station Superintendent

RHG:RWK/ssg

Attachment: LER 85-025-00

cc: Dr. T. E. Murley, Region I

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