(7-77)

LICENSEE EVENT REPORT

LER 83-02/1X UPDATE REPORT
Previous Report Date 1/21/83

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

Line	Field	Value
01	LICENSEE CODE (2)	VTVYS1
	LICENSE NUMBER (3)	00-00000-00
	LICENSE TYPE (4)	41111
	CAT (5)	
CON'T 01	REPORT SOURCE (6)	L
	DOCKET NUMBER (7)	05000271
	EVENT DATE (8)	010883
	REPORT DATE (9)	

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

02 While performing routine surveillance of the drywell during shutdown, indication
03 of a leak in a 2-inch SS schedule 160 elbow in the isolable section of the reactor
04 drain line was discovered. This leak is contrary to Tech. Spec. 3.6.E. There
05 were no adverse consequences to the public health and safety.
06
07
08

09	SYSTEM CODE (11)	CAUSE CODE (12)	CAUSE SUBCODE (13)	COMPONENT CODE (14)	COMP. SUBCODE (15)	VALVE SUBCODE (16)
	CG	E	D	PIPEXX	A	Z

(17) LER/RO REPORT NUMBER

EVENT YEAR		SEQUENTIAL REPORT NO.		OCCURRENCE CODE	REPORT TYPE		REVISION NO.
83	—	002	/	01	X	—	1

ACTION TAKEN (18)	FUTURE ACTION (19)	EFFECT ON PLANT (20)	SHUTDOWN METHOD (21)	HOURS (22)	ATTACHMENT SUBMITTED (23)	NPRD-4 FORM SUB. (24)	PRIME COMP. SUPPLIER (25)	COMPONENT MANUFACTURER (26)
A	Z	Z	Z	0000	Y	Y	A	E065

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

10 An independent lab determined that the elbow failure resulted from intergranular
11 stress-corrosion cracking. The leaking elbow was replaced with a Type 304L
12 stainless steel material.
13 (See attached)
14

15	FACILITY STATUS (28)	% POWER (29)	OTHER STATUS (30)	METHOD OF DISCOVERY (31)	DISCOVERY DESCRIPTION (32)
	G	000	NA	B	Routine Surveillance

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

PERSONNEL EXPOSURES

17	NUMBER (37)	TYPE (38)	DESCRIPTION (39)
	000	Z	NA

PERSONNEL INJURIES

18	NUMBER (40)	DESCRIPTION (41)
	000	NA

8309230426 830816
PDR ADOCK 05000271
S PDR

IE22S

LOSS OF OR DAMAGE TO FACILITY (43)

19	TYPE (42)	DESCRIPTION
	Z	NA

PUBLICITY

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

NAME OF PREPARER James P. Pelletier PHONE: 802/257-7711

GPO 917-926

VTVYS1
0500271
LER 83-02/1X

UPDATE REPORT - PREVIOUS REPORT DATE 1/21/83

Cause Description and Corrective Actions

While performing routine surveillance of the drywell during the January 8, 1983 Maintenance Outage, an indication of a leak in a 2-inch stainless steel, Type 304, schedule 160 reactor drain line elbow was found. The line was isolated and the elbow replaced with a Type 304L material in accordance with NUREG 0313. A detailed examination of the 2-inch socket welded elbow by Battelle Columbus Laboratory concluded that a through-wall crack resulted from IGSCC. The most probable causes for the IGSCC initiation were residual stresses introduced from weld bead cooling and cold working (machining) of the inner surface during fabrication and installation.

As a result of this event additional examinations of the vessel drain line were performed during the January 8, 1983 outage to verify the integrity of the pressure boundary. These included 4 welds PT'd and 6 welds VT'd and no further leaks were discovered. An additional walk down of the nonisolable portion of the piping was conducted and an inspection was performed for evidence of leakage. No additional evidence of leakage was found.

Subsequently, during the scheduled March 1983 Refueling Outage, a majority of the reactor drain line was replaced with Type 304L material. The replacement included all accessible piping between the vessel and the Residual Heat Removal System tie in.

VERMONT YANKEE NUCLEAR POWER CORPORATION

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VTV 83-166

August 16, 1983

United States Nuclear Regulatory Commission
Office of Inspection and Enforcement
Region I
631 Park Avenue
King of Prussia, PA 19406

Attention: Dr. Thomas E. Murley, Regional Administrator

References: Operating License DPR-28
Docket No. 50-271
Reportable Occurrence No. LER 83-02/1X

Dear Sir:

As defined by Technical Specifications for the Vermont Yankee Nuclear Power Station, section 6.7.B.1, we reported LER 83-02/1T on 1/21/83. We are now submitting and UPDATE REPORT as LER 83-02/1X.

Very truly yours,

James P. Pelletier
Plant Manager

RDP/drc

IE22