

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) Turkey Point Unit 3	DOCKET NUMBER (2) 0 5 0 0 0 2 5 0	PAGE (3) 1 OF 0 2
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TITLE (4)
Technical Specification - Reactor Coolant System Leakage

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)
07	12	84	84	020	000	08	10	84	Turkey Point Unit 4			0 5 0 0 0 2 5 1
									N/A			0 5 0 0 0

OPERATING MODE (9) **N**

POWER LEVEL (10) **100**

THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR § (Check one or more of the following) (11)

<input type="checkbox"/> 20.402(b)	<input type="checkbox"/> 20.406(c)	<input type="checkbox"/> 50.73(a)(2)(iv)	<input type="checkbox"/> 73.71(b)
<input type="checkbox"/> 20.406(a)(1)(i)	<input type="checkbox"/> 50.36(e)(1)	<input type="checkbox"/> 50.73(a)(2)(v)	<input type="checkbox"/> 73.71(c)
<input type="checkbox"/> 20.406(a)(1)(ii)	<input type="checkbox"/> 50.36(e)(2)	<input type="checkbox"/> 50.73(a)(2)(vi)	OTHER (Specify in Abstract below and in Text, NRC Form 366A)
<input type="checkbox"/> 20.406(a)(1)(iii)	<input checked="" type="checkbox"/> 50.73(a)(2)(i)	<input type="checkbox"/> 50.73(a)(2)(vii)(A)	
<input type="checkbox"/> 20.406(a)(1)(iv)	<input type="checkbox"/> 50.73(a)(2)(ii)	<input type="checkbox"/> 50.73(a)(2)(vii)(B)	
<input type="checkbox"/> 20.406(a)(1)(v)	<input type="checkbox"/> 50.73(a)(2)(iii)	<input type="checkbox"/> 50.73(a)(2)(ix)	

LICENSEE CONTACT FOR THIS LER (12)

NAME	TELEPHONE NUMBER
John Lovell, Regulation and Compliance Engineer	3 0 5 2 4 5 - 2 9 1 0

COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)

CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPROS	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPROS
B	A	BRTV	R344	N					

SUPPLEMENTAL REPORT EXPECTED (14)

<input checked="" type="checkbox"/> YES (If yes, complete EXPECTED SUBMISSION DATE)	<input type="checkbox"/> NO	EXPECTED SUBMISSION DATE (15)	MONTH	DAY	YEAR
			0	3	15 8 5

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

On July 12, 1984, Unit 3 was shutdown from 100% power due to a Reactor Coolant System (RCS) leak of approximately 13.5 gpm. The cause was leakage due to a broken gland flange on valve 3-538, the lower root valve on the pressurizer level instrument sensing line to LT-3-459. The affected loop bistables were tripped in accordance with Operating Procedure 0208.14. Therefore, the Technical Specification requirement for minimum degree of redundancy for reactor trip signals on pressurizer high water level was satisfied. During a RCS cooldown to affect repairs, valve 3-538 was manually backseated and the leak stopped. Immediate corrective actions included: 1) a manual unit shutdown and subsequent cooldown to repair valve, 2) original valve packing gland flange was replaced with a "strong-back" plate and washer, 3) an inspection of all Rockwell 3/4 inch valves on Units 3 and 4 with both units shutdown and, 4) an overpressure test and visual leak check of the RCS were performed and satisfactorily completed. The long term corrective action to be taken is to have engineering evaluate these failures for the root cause and provide permanent fix recommendations. The health and safety of the public were not affected. Similar occurrences: 250-84-019

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6)			PAGE (3)	
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER		
Turkey Point Unit 3	05000250	84	020	00	02	OF 02

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

On July 12, 1984, at 5:20 p.m., a reactor shutdown was commenced on Unit 3 due to a Reactor Coolant System (RCS) leak of approximately 13.5 gpm. The cause was a packing leak on the lower isolation valve, 3-538, on the instrument sensing line to pressurizer level transmitter LT-3-460. The affected loop bistables were tripped in accordance with Operating Procedure 0208.14. Thus satisfying the Technical Specification requirement for minimum degree of redundancy for reactor trip signals on pressurizer high water level.

The first indications of a leak were noted approximately 20 minutes after the pressurizer level transmitter LT-3-459 failed low. The sump level showed an increased rate of rise and, containment pressure showed a slight upward trend. The RCS leak rate, using the volume control tank (VCT) and containment sump levels, was estimated at approximately 13.5 gpm. A manual unit shutdown was commenced and the unit removed from service at 7:52 p.m. per Technical Specification 3.1.3. The leak was identified as a broken gland flange on valve 3-538 during a containment entry. A RCS cooldown was initiated to affect repairs on the valve. A second containment entry resulted in isolating the leak by fully backseating valve 3-538 at approximately 4:33 a.m., July 13. The cooldown was terminated and preparations made to repair valve 3-538 at hot shutdown conditions. A plant change modification (PCM 84-129) was prepared, reviewed, and approved to fabricate and install a "strong-back" plate and washer to replace the original valve packing gland flange that was damaged. The replacement parts were fabricated, the valve repacked, the "strong-back" and washer installed, bolted in place, and torqued to comply with Engineering's recommendations. Subsequently, an inspection of all Rockwell Edwards 3/4 inch globe valves was conducted on both Units 3 and 4. The inspection resulted in five additional gland flanges being found as unacceptable. Three valve gland flanges were cracked and two were degraded. Incorporation of the strong-back device, was affected on these valves as well. An evaluation is underway to determine the root cause of these similar failures and a satisfactory permanent fix. Level transmitter 3-459 was returned to service at 10:45 a.m., July 13. An overpressure test and visual leak inspection was successfully performed per Operating Procedure 1004.1. The unit was returned to service at 12:05 p.m., July 17, and full power operation achieved at 4:26 p.m., of the same day.



August 10, 1984
PNS-LI-84-283

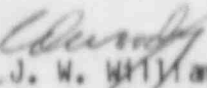
U. S. Nuclear Regulatory Commission
Document Control Desk
Washington, D.C. 20555

Gentlemen:

Re: Reportable Event 84-20
Turkey Point Unit 3 50-250
Date of Event: July 12, 1984
Technical Specification -
Reactor Coolant System Leakage

The attached Licensee Event Report is being submitted pursuant to the requirements of 10 CFR to provide notification of the subject event.

Very truly yours,

for 
J. W. Williams, Jr.
Group Vice President
Nuclear Energy

JWW/PLP/js

Attachment

cc: J. P. O'Reilly, Region II, USNRC
Harold F. Reis, Esquire
File 933.1

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