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MAY 1 8 2001

U.S. Nuclear Regulatory Commission Attn: Document Control Desk Mail Station P1-137 Washington, DC 20555

SUSQUEHANNA STEAM ELECTRIC STATION LICENSEE EVENT REPORT 50-388/2001-003-00 PLA - 5317 FILE R41-2

Docket No. 50-388 License No. NPF-22

Attached is Licensee Event Report 50-388/2001-003-00. This event was determined to be reportable per 10CFR50.73(a)(2)(ii)(A) in that the secondary containment bypass leakage limit was exceeded during regularly scheduled Local Leak Rate Testing. The main contributor to the leakage was the RHR Loop B Drywell Spray Outboard Isolation Valve. This valve was reworked and successfully passed its Local Leak Rate Test. There were no consequences to the health or safety of the public.

Bryce L. Shriver Vice President – Nuclear Site Operations

Attachment

- cc: Mr. H. J. Miller Regional Administrator U. S. Nuclear Regulatory Commission 475 Allendale Road King of Prussia, PA 19406
- cc: Mr. S. L. Hansell Sr. Resident Inspector U.S. Nuclear Regulatory Commission P. O. Box 35 Berwick, PA 18603-0035

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ABSTRACT (Limit to 1400 spaces, i.e., approximately 15 single-spaced typewritten lines) (16)

On March 19, 2001, at 0803 hours, with Unit 2 in Condition 5 (Refueling) at 0 percent power, it was determined that the as-found minimum pathway Secondary Containment Bypass Leakage (SCBL) Technical Specification limit had been exceeded during regularly scheduled Local Leakage Rate Testing. The Technical Specification SCBL limit is 9 scfh and the measured bypass leakage was 9.14 SCFH. At that time, additional SCBL pathways remained to be leak rate tested. After completion of all leak rate testing, the total SCBL was determined to be 11.13 scfh. The major contributor to the SCBL was the RHR Loop B Drywell Spray outboard isolation valve. This event was determined to be reportable in accordance with 10CFR50.73(a)(2)(ii) in that the total as-found minimum pathway SCBL leakage rate limit exceeded the Technical Specification limit. The cause of the high leakage through the RHR Loop B Drywell Spray outboard isolation valve (HV251F016B) was due to the gland follower and stem being in contact. In addition, a small area of pitting on the disc contributed to the high leakage. The valve was reworked and successfully passed its leak rate test.

There were no safety consequences or compromise to the public health or safety as a result of the additional SCBL leakage since the dose consequences from the additional leakage would not have exceeded 10CFR100 or 10CFR50 Appendix A, GDC 19 limits.

NRC FORM 366AU.S. NUCLEAR REGULATORY COMMI (1-2001) LICENSEE EVENT REPORT (LER)	SSION				
FACILITY NAME (1)	DOCKET (2)	1	PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	
Susquehanna Steam Electric Station - Unit 2	05000388	2001	003	00	2 OF 3

NARRATIVE (If more space is required, use additional copies of NRC Form 366A) (17)

EVENT DESCRIPTION

On March 19, 2001, at 0803 hours, with Unit 2 in Condition 5 (Refueling) at 0 percent power, it was determined that the as-found minimum pathway Secondary Containment Bypass Leakage (SCBL) Technical Specification limit had been exceeded during regularly scheduled Local Leakage Rate Testing. The Technical Specification SCBL limit is 9 scfh and the measured leakage was 9.14 SCFH. At that time, additional SCBL pathways remained to be leak rate tested. After completion of all leak rate testing, the total SCBL was determined to be 11.13 scfh. The major contributor to the SCBL was the RHR (EIIS Code: BO) Loop B Drywell Spray outboard isolation valve (EIIS Code: BD) with approximately 73% of the total minimum pathway SCBL leakage.

CAUSE OF EVENT

The cause of the high leakage through the RHR Loop B Drywell Spray outboard isolation valve (HV251F016B) was due to the gland follower and stem being in contact. During valve movement, the gland follower and the stem were rubbing against each other. This rubbing caused increased friction, which reduced the force that would normally be applied to the valve disc to seat interface. In addition, a small area of pitting on the disc contributed to the high leakage.

There are no generic implications due to this failure. The high leakage experienced on HV251F016B has not been experienced on the other similar valves. In addition, the RHR Loop A Drywell Spray outboard isolation valve (HV251F016A) was repacked during this outage with no evidence of stem and gland follower contact.

REPORTABILITY/SAFETY SIGNIFICANCE

This event was determined to be reportable in accordance with 10CFR50.73(a)(2)(ii) in that the total asfound minimum pathway leakage rate exceeded the Technical Specification limit. If a Design Basis Accident-Loss of Coolant (DBA-LOCA) with fuel failure had occurred in Unit 2, the leakage of 11.13 scfh (8.13 scfh from the RHR Loop B Drywell Spray penetration) would have bypassed secondary containment. This would have resulted in an increase in offsite dose. However, the increase in dose would not have exceeded either 10CFR100 or 10CFR50, Appendix A, GDC 19 dose limits. Therefore, there were no safety consequences or compromise to the public health or safety as a result of the increased Secondary Containment Bypass Leakage.

In accordance with the guidelines provided in NUREG-1022, Revision 2, Section 5.1.1, the required submission date for this report was determined to be May 18, 2001.

CORRECTIVE ACTION

The following corrective actions were completed on the RHR Loop B Drywell Spray outboard isolation valve:

• The gland follower was lined.

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 The stem was replated by the disc and seat was and seat was satis The valve was satis 	aced. were cleaned. sfactorily retested					
ADDITIONAL INFORMA						
Past Similar Events:	LER 96-002-0 LER 96-011-0 LER 99-002-0	0, Docket No. 3 0, Docket No. 3 0, Docket No. 3	387/Licen 387/Licen 388/Licen	se No. NPF-14 se No. NPF-14 se No. NPF-2	4 4 2	
Failed Component:	12 inch globe	valve: HV251F	016B			
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