

NLS2012008 January 12, 2012

U.S. Nuclear Regulatory Commission Attention: Document Control Desk Washington, D.C. 20555-0001

Subject: Licensee Event Report No. 2011-007-00 Cooper Nuclear Station, Docket No. 50-298, DPR-46

Dear Sir or Madam:

The purpose of this correspondence is to forward Licensee Event Report 2011-007-00.

Sincerely,

Demetrius L. Willis General Manager of Plant Operations

/jo

Attachment

cc: Regional Administrator w/attachment USNRC - Region IV

> Cooper Project Manager w/attachment/ USNRC - NRR Project Directorate IV-1

> Senior Resident Inspector w/attachment USNRC - CNS

SRAB Administrator w/attachment

NPG Distribution w/attachment

INPO Records Center w/attachment

SORC Chairman w/attachment

CNS Records w/attachment



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					APPROVED BY OMB NO. 3150-0104 EXPIRES 10/31/2013											
(10-2010) LICENSEE EVENT REPORT (LER) (See reverse for required number of					Estimated burden per response to comply with this mandatory information collection request: 80 hrs. Reported lessons learned are incorporated into the licensing process and fed back to industry. Send comments regarding burden estimate to the FOIA/Privacy Service Branch (T-5 F53), U.S. Nuclear Regulatory Commission, Mashington, DC 20555-0001, or by intermet e-mail to infocollects: resource@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs NEOB-10202, (3150-0104), Office of Management and Budget, Washington, DC 20503, If a means used to imprese an information collection dees not desped values of the analysis.											
			digits/cn	iaracters for ea	ich block)				used to impose an information collection does not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.							
1. FACI	LITY	NAME							-					3. PAGE	E	
Coo	per l	Nuclear S	tation							05000298				1 of 4		4
	4. TITLE Primary Containment Lost Safety Function due to Open Drywell Vacuum Breaker								. <u></u> .							
5. E\	/ENT	DATE		6. LER NUMBER	R	7. REPORT DATE			\square	8. OTHER FACILITIES			· · · ·			
MONTH	DAY	YEAR	YEAR	SEQUENTIAL NUMBER	REV NO.	MONTH	DAY	YEAF	R		TY NAME				500	0
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On November 22, 2011, the top corner of a rolling podium that was being used during a surveillance at Cooper Nuclear Station (CNS) contacted the Master Control Switch for the Torus to Drywell Vacuum Breakers. The contact was sufficient to cause the switch to move from the normally closed position to the open position, causing one Torus to Drywell Vacuum Breaker to open. The Control Room operator performing the surveillance, along with a peer, recognized what had occurred and repositioned the Master Control Switch to the closed position, which returned the affected Torus to Drywell Vacuum Breaker to the normally closed position.																
	The Torus to Drywell Vacuum Breaker and Primary Containment were declared inoperable, and the appropriate Technical Specification for Limiting Condition of Operation (LCOs) were entered. After the Torus to Drywell Vacuum Breaker closed, the vacuum breaker and Primary Containment were declared operable and the LCOs were exited.															
	CNS identified the root cause to be the design of the rolling podium was deficient with respect to its use in the Control Room. The rolling podium has been removed from the Control Room. To prevent recurrence of this event, the rolling podium will be replaced with one designed such that it cannot contact the switches and instrumentation.															
	This event has low safety significance.															

NRC FORM 366A

(10-2010)

LICENSEE EVENT REPORT (LER) CONTINUATION SHEET

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17. NARRATIVE

PLANT STATUS

Cooper Nuclear Station (CNS) was in Mode 1, Power Operation, at 100 percent power at the time of the event.

BACKGROUND

The function of the Torus to Drywell Vacuum Breaker [EIIS:VACB] is to relieve vacuum in the drywell. There are 12 internal vacuum breakers which allow air and steam flow from the suppression chamber (torus) to the drywell when the drywell is at a negative pressure. Torus to Drywell Vacuum breakers prevent an excessive negative differential pressure across the drywell boundary. Each vacuum breaker is a self-actuating valve [EIIS:V], similar to a check valve, which can be remotely operated for testing purposes.

A negative differential pressure across the drywell wall is caused by rapid depressurization of the drywell. Design Bases Accident (DBA) analyses assume the vacuum breakers to be closed initially and to remain closed and leak tight, until the suppression pool is at a positive pressure relative to the drywell. The requirement that the vacuum breakers be closed ensures that there is no excessive bypass leakage should a Loss of Coolant Accident (LOCA) occur.

The function of the primary containment [EIIS:NH] is to isolate and contain fission products released from the Reactor Primary System following a design basis LOCA and to confine the postulated release of radioactive material. The safety design basis for the primary containment is that it must withstand the pressures and temperatures of the limiting DBA without exceeding the design leakage rate. The leakage from the drywell to the suppression chamber must be limited to ensure the pressure suppression function is accomplished and the suppression chamber pressure does not exceed design limits.

The vacuum breaker has a safety function in the closed position to limit the amount of bypass flow to ensure proper containment response on a postulated LOCA event and an open safety function post LOCA to limit negative differential pressure between the drywell and the suppression chamber. With the valve partially open, the LOCA containment response cannot be assured.

EVENT DESCRIPTION

On November 22, 2011, during performance of surveillance 6.2REC.101, the Master Control Switch (PC-SW-CSVB) for the 12 Torus to Drywell Vacuum Breakers was inadvertently bumped.

While performing the surveillance, a rolling podium was moved in front of panel VBD-J to allow the Control Room operator to perform a manipulation on panel VBD-M. While moving the rolling podium, the top corner of the podium inadvertently came into contact with the Master Control Switch for the Torus to Drywell Vacuum Breakers. Contact between the rolling podium and the Master Control Switch was sufficient to cause the switch, normally in the closed position, to move to the open position. Consequently, an alarm was received indicating one

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NARRATIVE			
 (PC-AO-NRV27) of the 12 Torus to Diopen indication was likely the result of associated instrument air line which with reposition the vacuum breaker off the The Control Room operator, along with Master Control Switch and repositioned position, closing PC-AO-NRV27. PC-The Control Room Supervisor declared 1353 hours and entered Technical Sp Condition B, Required Action B.1, white Concurrently, Primary Containment with Action A.1, was entered, which require the Torus to Drywell Vacuum Breaker and 3.6.1.1, respectively. 	f residual pressurized ai vas sufficient to move the contact points that oper th a peer, observed that ed the Master Control Sy- AO-NRV27 was open a ed the Torus to Drywell V pecification Limiting Cond ich requires the valve to vas declared inoperable a res restoration of Primary was closed, the Control	r in the test actuator and e valve test actuator and rate the indicator light. the rolling podium contacte witch to its normally closed pproximately 5 seconds. /acuum Breaker inoperable dition of Operation (LCO) 3. be closed within 12 hours. and LCO 3.6.1.1, Condition y Containment within 1 hour Room Supervisor declared	d the at 6.1.8, A, : After the
The rolling podium has an upper platf performance of work evolutions. The platform and the upper platform could Control Switch protrudes from the cor adjusted to a height that is the same of	rolling podium is design contact a vertical surfa ntrol panel. The rolling p	ned such that the bottom ba ce simultaneously. The Mas podium had been previously	ster
The rolling podium did not meet the re For compliance with this procedure, the temporary item needed to support on electrical control panel in the Control personnel confirmed that the rolling p "tended" and has been stowed within incorrectly presumed that the rolling p procedure. Compliance with the proce the Master Control Switch caused an	he rolling podium must b -going work) or stowed r Room with the wheels in odium has been stowed 4 feet from the electrica podium complied with the redure was not question	be a "tended" item (i.e., a no closer than 4 feet from a n the locked position. Opera in the Control Room when I control panels. Therefore e Seismic Housekeeping	ny ations not , it was
The podium was removed from the C	ontrol Room on Novemb	per 30, 2011.	
BASIS FOR REPORT			
CNS is reporting this event as a cond	lition which could have n	revented the fulfillment of th	

CNS is reporting this event as a condition which could have prevented the fulfillment of the safety function of structures or systems that are needed to mitigate the consequences of an accident, per 10 CFR 50.73(a)(2)(v)(D), due to the function of Primary Containment being potentially degraded. CNS also reported this event per Event Notification 47471.

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17. NARRATIVE

SAFETY SIGNIFICANCE

The safety significance associated with this condition is low due to the short duration the Torus to Drywell Vacuum Breaker was open. The potential impact of this condition is limited to LOCAs located in containment. The probability of a LOCA occurring during the approximate 5 second interval of time the Torus to Drywell Vacuum Breaker Master Control Switch was positioned to open is considered negligible. Therefore, it is concluded that this condition had low safety significance.

CAUSE

CNS determined the root cause of this event is the design of the rolling podium was deficient with respect to its use in the Control Room.

CORRECTIVE ACTION

To prevent recurrence of this event, the rolling podium will be replaced with one designed such that it cannot contact the switches and instrumentation.

PREVIOUS EVENTS

A previous similar event involving the inadvertent contact of a switch in the Control Room occurred on August 27, 2011. A Gaitronics handset was dropped and contacted the "A" side Automatic Depressurization System (ADS) inhibit switch. This contact was sufficient to move the switch from the AUTO position to the INHIBIT position. The Control Room Supervisor was immediately informed and direction was given to place the switch back to AUTO. The "B" side of the ADS remained operable thus maintaining safety function of the ADS.

ATTACHMENT 3 LIST OF REGULATORY COMMITMENTS©⁴

ATTACHMENT 3 LIST OF REGULATORY COMMITMENTS@4

Correspondence Number: <u>NLS2012008</u>

The following table identifies those actions committed to by Nebraska Public Power District (NPPD) in this document. Any other actions discussed in the submittal represent intended or planned actions by NPPD. They are described for information only and are not regulatory commitments. Please notify the Licensing Manager at Cooper Nuclear Station of any questions regarding this document or any associated regulatory commitments.

COMMITMENT	COMMITMENT NUMBER	COMMITTED DATE OR OUTAGE
None		
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