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December 1, 2009

10 CFR 50.73

SVPLTR # 09-0059

U. S. Nuclear Regulatory Commission ATTN: Document Control Desk Washington, DC 20555-0001

> Dresden Nuclear Power Station, Unit 3 Renewed Facility Operating License No. DPR-25 NRC Docket No. 50-249

Subject: Licensee Event Report 249/2009-001-00, "Unit 3 Group I Isolation and Automatic Reactor Scram"

Enclosed is Licensee Event Report 249/2009-001-00, "Unit 3 Group I Isolation and Automatic Reactor Scram" for Dresden Nuclear Power Station, Unit 3. This event is being reported in accordance with 10 CFR 50.73(a)(2)(iv)(A), "Any event or condition that resulted in manual or automatic actuation of any of the systems listed in paragraph (a)(2)(iv)(B) of this section."

There are no regulatory commitments contained in this submittal.

Should you have any questions concerning this letter, please contact Ms. Marri Marchionda at (815) 416-2800.

Respectfully,

Tim Hanley Site Vice President Dresden Nuclear Power Station

Enclosure

cc: Regional Administrator – NRC Region III NRC Senior Resident Inspector – Dresden Nuclear Power Station

NRR

NRC FORM 366 U.S. NUCLEAR REGULATORY COMMISSION						APPROVE	D BY OMB	NO. 3150-01	104	EXPIRES:	08/31/2010
(9-2007) LICENSEE EVENT REPORT (LER)						Estimated burden per response to comply with this mandatory collection request: 80 hours. Reported lessons learned are incorporated into the licensing process and fed back to industry. Send comments regarding burden estimate to the Records and FOIA/Privacy Service Branch (T-5 F52), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internel e-mail to infocollects@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 impose an information collection does not display a currently valid OMB control number, the NRC may not accord to record to the provide the received to the the product or conserver.					
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1. FACILITY NAME						2. DOCKET NUMBER 3. PAGE					
Dresden Nuclea	ar Power Statio	on, Unit 3				05000249 1 O			OF 4		
4. TITLE Unit 3 Group I Is	olation and Au	itomatic Rea	etor Scr	am							
5. EVENT DATE				EPORT D	ATE	-	8				
	850					8. OTHER FACILITIES INVOL FACILITY NAME				DOCKET	
MONTH DAY YE		JMBER NO.	MONTH	DAY	YEAR	FACILITY	NAME			DOCKET	N/A
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		1	2. LICENS	SEE CONT	ACT FO	OR THIS L	ER				
FACILITY NAME Dresden Nucle	ar Power Static	on – Ali Abba	asi						серноме NUMB 315) 416-28	-	rea Code)
	13. COMPLE	TE ONE LINE I	FOR EACI	Н СОМРО		AILURE	DESCRIB	ED IN THIS	REPORT		
CAUSE SYST		MANU- FACTURER		RTABLE EPIX	С.	AUSE	SYSTEM	COMPONEN	IT MANU- FACTURE		DRTABLE DEPIX
N/A	N/A N/A										
	14. SUPPLEME	NTAL REPOR	T EXPECT	ED				XPECTED MISSION	MONTH	DAY	YEAR
□YES (If yes, com						NO		DATE	λ		
ABSTRACT (Limit to 1400 spaces, i.e., approximately 15 single-spaced typewritten lines) On 10/03/2009 at approximately1735 hours while at full power, Unit 3 experienced an automatic reactor scram and Group I primary containment isolation signal. Due to the Group I isolation signal, the inboard and outboard main steam isolation valves closed as designed. Prior to the reactor scram, operators were restoring the reactor water clean-up (RWCU) system per the applicable station procedure.											
The Probable Cause for the Group I isolation signal and reactor scram is attributed to a hydraulic pressure transient when restarting the RWCU system due to a latent procedure deficiency.											
The procedure for restarting the RWCU has been revised.											
During the reactor scram, the shared Unit 2/3 emergency diesel generator automatically started when auxiliary power transferred from the main to the reserve power source.											
The safety significance of this event is minimal as plant response and operator actions were consistent with the protection of public health and safety and personnel safety.											
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NRC FORM 366A (9-2007) LICENSEE EVENT REPORT (L.F.R) U.S. NUCLEAR REGULATORY COMMI									
	1. FACILITY NAME	2. DOCKET	6. LE	R NUMBER	3. PAGE				
Dresden Nuclear Power Station, Unit 3		05000249	YEAR 5	SEQUENTIALREV NO.001-001	- 2 OF 4				
NARR	АПУЕ				· · · · · · · · · · · · · · · · · · ·				
PLA	NT AND SYSTEM IDENTIFICATION	ON							
licen	iden Nuclear Power Station (DNPS used maximum power level of 2957 as used in the text are identified as	megawatts therma							
Α.	Plant Conditions Prior to Even	<u>t</u> :							
		009 Operation	Event Time: 1735 hours Power Level: 100 percent						
В.	Description of Event:								
	On 10/03/2009 at approximately reactor scram and Group 1 prima PCIS, the inboard and outboard r Group 2 and Group 3 isolations v the isolation condenser per the a Plant systems responded as exp upon trip of the Unit 3 turbine at a transferred from the main to the r Prior to the reactor scram, operat per station procedure DOP 1200- the procedure, RWCU was being reactor pressure vessel (RPV) to Return to Reactor motor operated	ary containment iso main steam isolation vere received and pplicable procedur ected with one exc approximately 1736 eserve power sour cors were restoring 03, "RWCU Syste filled and heated in the main condens	lation signal (on valves close verified complete to control resplication: the Ur b hours on 10/ ce. the reactor w m Operation w n the blowdow er. During th	PCIS) [JM]. Due t ed as designed. In lete. Operators m actor pressure wit hit 2/3 EDG autom /03/2009 when au ater cleanup (RW with the Reactor at wn mode with a flo is operation, the F	to the Group I n addition, PCIS anually initiated thin limits. atically started xiliary power CU) system [CE] t Pressure." Per w path from the RWCU System				
	isolation occurred within a few se The RWCU system had tripped e remained closed for 30 hours and established. A root cause investi valve was opened, water upstrea downstream of the valve and sub the RPV level transmitters, result Level Low-Low Group I Isolation The Group I Isolation and Automa 50.73(a)(2)(iv)(A), "Any event or the systems listed in paragraph (a paragraph (a)(2)(iv)(B), "Reactor	arlier on 10/02/09 d was opened after gation determined m of the valve flas sequently collapse ing in a Reactor W Signal. atic Reactor Scram condition that resu a)(2)(iv)(B) of this	at approximat the system w that under the hed to steam d. The result ater Level Low n event is repo lited in manua section," as re	ely 1100 hours. T vas filled and blow ese conditions, wh in the lower press ing pressure pulse w SCRAM Signal a ortable in accordar al or automatic actor ad in conjunction	down flow len the 3-1201-7 ure region was sensed by and Reactor Water nce with 10 CFR uation of any of with item (1) of				
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NRC FORM 366A (9-2007) U.S. NUCLEAR REGULATORY COMMISSION U.S. NUCLEAR REGULATORY COMMISSION									
(9-2007) LICENSEE EVENT REPORT (LER)									
	1. FACILITY NAME	2. DOCKET		6. LER NUMBER			3. PAGE		
Dresd	den Nuclear Power Station, Unit 3	05000249	<u>YEAR</u> 2009	SEQUENTIAL NUMBER	REV NO.	3	OF	4	
NARR	ATIVE						-		
C.	The Unit 2/3 EDG automatic start is re- event or condition that resulted in mar paragraph (a)(2)(iv)(B) of this section. Unit 3 was returned to the grid on 10/7 Cause of Event: The Probable Cause for the pressure Signal and Unit 3 Reactor SCRAM is a provided inadequate guidance for the at pressure. In GEK-323399, "Dresde Instructions," Section 3-11, the reactor Reactor line MOV be in the open posi This recommendation was not incorpo- historical.	nual or automa 7/2009 after co pulse initiating attributed to a 3-1201-7 valv en 3 Reactor V or vendor, Gen ition for RWCL	atic actuat ompletion latent pro re position Vater Clea eral Election J system s	of the forced ou Water Level Low ocedural deficien during system r an-Up Operation ric, recommende start-up when the	w-Low w-Low cy. Do restora and N ed that e reac	Group OP 120 ation w Mainter t the Re tor is a	o I Isola 00-03 ith the eturn to at powe	ition RPV	
D.	The Cause of the Unit 2/3 EDG autom source is due to breaker contact response reserve feed breakers to the 4 kilovolt connected in series) were closed simular sufficient time for the auto start relay of autostart was not expected, it is possi circuitry to absolutely prevent the auto- actuation in a particular situation depen- main and the reserve feed breakers to respectively. Safety Analysis: The risk significance of the event was	onse timing. E t (kV) Bus 33, ultaneously for of the Unit 2/3 ible as there is ostart during a ends on the re o go from "clos	During the the "b" co r approxim EDG to b no delay fast powe lative spe- sed" to "op e core dar	fast transfer bei ntacts on both th nately 74 millised e activated. Eve mechanism buil er transfer. The ed and timing of pen" and from "o	tween ne brea conds. en thou it into t potent the "b pen" to	the ma akers (. This ugh the the ele tial for o" conta o "clos	ain and (which a provide e EDG ctrical EDG acts for ed,"	are ed	
	Release probability (LERP) calculation Operator actions taken, showed the e	event to be of le	ow risk się	gnificance.					
	The safety significance of this event is	s minimai. The	ano ano	i ine Unit 2/3 ED	u res	houae	Jina		

The safety significance of this event is minimal. The RPS and the Unit 2/3 EDG responded in a manner consistent with the protection of public health and safety and personnel safety. Operator actions were appropriate and consistent with normal and emergency operating procedures.

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Dresden Nuclear Power Station, Unit 3		05000249	YEAR 2009	SEQUENTIAL NUMBER - 001 -	REV NO.	4	OF	4		
NARR	ATIVE									
E.	Corrective Actions:									
	Procedure DOP 1200-03 has been rev RWCU system fill and vent activities.	vised, requirin	g the 3-12	01-7 valve to t	be oper	n prior to	initiatin	g		
	Planned corrective actions for the Gro	up 1 isolation	and auton	natic reactor so	cram ev	vent inclu	ude:			
	 Review of Operations procedures for RWCU and Feed Water [SJ] systems line-ups and valve sequencing that could create precursors for a hydraulic transient and subsequent pressure pulse that could reach the RPV 									
	 Engineering evaluation of existing RWCU fill and vent procedure for adequacy and potential enhancements Revision to Operations' Pre-Job Briefings to include the potential for hydraulic transient induced pressure pulse 									
	Planned corrective actions for the EDG autostart event include:									
	 Inspection of the main feed breaker and auxiliary feed breaker actuation mechanisms by the end of the refueling outage in 2010 to evaluate if the actuations are occurring at the optimal points in relation to each other. 									
F.	Previous Occurrences:									
	A review of DNPS Licensee Event Reports (LERs) for the last three years did not identify any LERs associated with a similar hydraulic transient event, or an EDG actuation caused by a similar electrical system lineup.									
G.	Component Failure Data:									
	N/A									