

Clinton Power Station 8401 Power Road Clinton, IL 61727

**U-604283** May 23, 2016 10CFR50.73 SRRS 5A.108

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

> Clinton Power Station, Unit 1 Facility Operating License No. NPF-62 <u>NRC Docket No. 50-461</u>

Subject: Licensee Event Report 2016-003-00

Enclosed is Licensee Event Report (LER) 2016-003-00: Bypassing Both Divisions of Reactor Water Cleanup Leak Detection System is a Reportable Loss of Safety Function. This report is being submitted in accordance with the requirements of 10 CFR 50.73.

There are no regulatory commitments contained in this report.

Should you have any questions concerning this report, please contact Mr. Dale Shelton, Regulatory Assurance Manager, at (217) 937-2800.

Respectfully,

Theodore R. Stoner Site Vice President Clinton Power Station

KP/cac

Attachment: Licensee Event Report 2016-003-00

cc:

Regional Administrator— NRC Region III NRC Senior Resident Inspector - Clinton Power Station Office of Nuclear Facility Safety — Illinois Emergency Management Agency

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						APPROVED BY OMB: NO. 3150-0104 EXPIRES: 10/31/2018												
(11-2015) LICENSEE EVENT REPORT (LER) (See Page 2 for required number of digits/characters for each block)								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 FOIA, Privacy and Information Collections Branch (T-5 F53), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet 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 impose an information collection des 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. FACILITY NAME								2. DOCKET NUMBER 3. PAGE										
Clinton Power Station, Unit 1									05000461 1 OF 4									
4. TITLE Bypassing Both Divisions of Reactor Water Cleanup Leak Detection System is a Reportable Loss of S									afety	/ Fu	nction							
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YES (If yes, complete 15. EXPECTED SUBMISSION DATE)       NO       DATE         ABSTRACT (Limit to 1400 spaces, i.e., approximately 15 single-spaced typewritten lines)       On March 24, 2016, it was determined that placing both Reactor Water Cleanup System (RT) Leak Detection System (LD) bypass switches in the Bypass position per plant procedure when the RT Filter/Demineralizer (F/D) was placed in service following backwash and pre-coat operations on January 25, 2016 was a reportable condition. Both divisions of the RT LD were bypassed for seven minutes. Backwashing and pre-coating a RT F/D is a normal system operation and not considered maintenance. A review of the Updated Safety Analysis Report (USAR) determined that the associated isolation functions are credited to mitigate the consequences of an RT pipe break accident described in USAR Chapter 6. Therefore, placing both divisions of RT LD in Bypass constituted a condition that could have prevented the fulfillment of the safety function of a system that is needed to mitigate the consequences of an accident. The direction for bypassing the RT LD system had been included in procedures since 1989 but did not constitute a reportable event until the issuance of NUREG-1022, Rev. 3 in 2013. The failure to report this condition was caused by not revising plant procedures when the Exelon fleet reporting requirements were revised to align with NUREG-1022, Rev. 3.																		
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	RM 366A	U.S.	. NUCLEAR REG	ULATORY COMMIS	SION	APPROV	ED BY	OMB: NO	<b>D. 3150</b>	)-0104		EXP	IRES: 01/	/31/2017
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В.	DESCR	RIPTION OF E	VENT											
	Detection Procedu in service determine	rch 24, 2016, it on System (LD) ure 3301.01, "F ce following ba ined from the C ed for seven m	<ol> <li>bypass swi</li> <li>Reactor Wate</li> <li>ackwash and</li> <li>Operations Lo</li> </ol>	itches in the B er Cleanup" wl pre-coat oper	Bypas then the the stration of the strate st	s posit the RT is was	tion p Filte a rep	per Clin r/Demi portable	nton l inera e cor	Power Ilizer (F ndition.	Stat F/D) . It v	tion (C was p was	CPS) blaced	
	The foll	owing Operatic	ons log entrie	es document t	he a	ctions t	aken	n on Jai	nuar	y 25, 2	2016			
	0940: Placed 'A' RT F/D in Hold for backwash and pre-coat per procedure CPS 3303.01 section 8.1.3 and procedure CPS 3303.02, "Reactor Water Cleanup Filter Demineralizer Operating Procedure," sections 8.2 and 8.5.									1				
	1155:	Placed RT F/	'D 'B' in Hold	i.										
	1157:	When pressur RT LD in Bypa Verified Dose x 10e-6 µCi/gr Condition for ( Instrumentation Action D.1 - P Restore RT is	ass, this will Equivalent I m) per CPS Operation (L on." Entered Place channe	render both R lodine I-131 sp 3303.01 step .CO) 3.3.6.1, " I the following I in trip in 24 h	WCl becifi 6.9 a Prim action	J differ ic activi and Tec ary Co on state	entia ity is chnic ntain emen	l flow ii < 1.8 x al Spec ment a nts: - LC	instru x 10e cifica and [ CO 3	uments e-3 μCi ation (T Drywell 3.3.6.1,	s INC i/gm TS) L I Isol , Rec	DPER, (actua _imitin lation quired	ABLE. al 1.84 Ig I	•

NRC FORM 366A (02-2014)	U.S. NUCLEAR REGULATORY COMMISS LICENSEE EVENT REPORT (LER) CONTINUATION SHEET							
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NARRATIVE

1159: Placed RT F/D 'B' on Service following backwash of 'A' F/D.

1202: Placed RT F/D 'A' on Service following backwash.

1204: Placed both divisions of RT LD bypass switches in Normal. Performed channel check SAT. Exit LCO 3.3.6.1 Required Action D.1 and E.1 actions.

An evaluation determined that placing both divisions of the RT LD switches in the Bypass position represented a loss of safety function that was not part of a planned evolution for maintenance or testing. Backwashing and pre-coating a RT F/D, as indicated in the Operations Log, is a normal system operation and not considered maintenance. Therefore, placing both divisions of RT LD switches in Bypass was reportable. The Updated Safety Analysis Report (USAR), the TS Bases, and NRC reporting requirements were reviewed as part of an evaluation regarding event reportability. Based on this review, it was determined that the RT LD system is credited to mitigate a break in the RT system piping inside containment accident as described in USAR Chapter 6. As a result, it was concluded that placing both divisions of RT LD switches in Bypass as described in this LER, represented a condition that could have prevented the fulfillment of the safety function of a system that is needed to mitigate the consequences of an accident described in USAR Chapters 6 and 15. This condition is reportable under 10 CFR 50.73(a)(2)(v)(C).

A change to the RT system procedure was implemented in 1989 to allow placing RT LD bypass switches into Bypass to prevent an unwanted or unwarranted isolation of the RT system during system manipulations. The associated safety evaluation went through several levels of management concurrence. Based on the reporting guidelines in place at the time, placing both divisions of RT LD in Bypass did not constitute a reportable event. However, NUREG-1022, Rev. 3 indicates that a report is required when SSCs are inoperable in a required mode unless as part of a planned evolution for maintenance or surveillance testing when done in accordance with an approved procedure and the plant's TS.

## C. CAUSE OF EVENT

The apparent cause of the failure to report this event was the failure to perform plant procedure revisions when Exelon Generating Company (EGC) fleet reporting procedure requirements changed with the implementation of NUREG-1022, Revision 3. Plant procedure revisions did not occur because the change management process applied in this instance did not require an Operations cross-functional review when the EGC fleet reporting procedure was issued.

NRC F (02-2014	FORM 366A LIC	ENSEE EVENT I CONTINUATIO	•		LEAR REG	BULATO	RY COM	MISSIC	
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NARR	ATIVE	•							
D.	SAFETY ANALYSIS								
	This event had no actual nuclear s	afety consequence	ces.						
	RT recirculates a portion of reactor and dissolved impurities from the r reactor system under controlled co following an accident and is isolate	eactor coolant. It onditions. RT is no	also remov t required	ves excess control to function do	oolant fr	om the	•		
	The purpose the RT LD System is should a system leak of sufficient r available to monitor RT parameter allow isolation of the RT System.	nagnitude occur.	Other ope	erational cont	rols rem	ained			
E.	CORRECTIVE ACTIONS								
	A standing order was put into place switches are placed in Bypass unle testing.						r		

CPS Procedures 3303.01 and 5000.02, "Alarm Panel 5000 Annunciators –Row 2," have been revised to indicate that placing both RT leak detection system switches in the bypass position at the same time while in modes 1, 2 or 3 for reasons other than to support maintenance or testing is a reportable event per 10CFR50.72 and 10CFR50.73. An action was also created to review other Operations procedures to determine if a safety function is bypassed for reasons other than maintenance or testing.

## F. PREVIOUS SIMILAR OCCURENCES

No previous events were identified associated with the failure to report bypassing a safety function.

## G. COMPONENT FAILURE DATA

There were no component failures associated with this event.