10 CFR 50.73



NMP1L3292 June 28, 2019

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

> Nine Mile Point Nuclear Station, Unit 1 Renewed Facility Operating License No. DPR-63 Docket No. 50-220

Subject: NMP1 Licensee Event Report 2019-003, Manual Reactor Scram Due to Pressure and Power Oscillations

In accordance with the reporting requirements contained in 10 CFR 50.73(a)(2)(iv)(A), please find enclosed NMP1 Licensee Event Report (LER) 2019-003, Manual Reactor Scram Due to Pressure and Power Oscillations.

There are no regulatory commitments contained in this letter.

Should you have any questions regarding the information in this submittal, please contact Brandon Shultz, Site Regulatory Assurance Manager, at (315) 349-7012.

Respectfully,

Juli C. Thompson

Julian C. Thompson Director Site Operations, Nine Mile Point Nuclear Station Exelon Generation Company, LLC

JCT/KJK

Enclosure: NMP1 Licensee Event Report 2019-003, Manual Reactor Scram Due to Pressure and Power Oscillations.

cc: NRC Regional Administrator, Region I NRC Resident Inspector NRC Project Manager

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Enclosure

NMP1 Licensee Event 2019-003, Manual Reactor Scram Due to Pressure and Power Oscillations

Nine Mile Point Nuclear Station, Unit 1

Renewed Facility Operating License No. DPR-63

NRC FORM 366 U.S. NUCLEAR REGULATORY COMMISSION							APPRO	DAF	ED BY OMB: NO.	3150-0104		Ł	XPIRE	S: 0	3/31/2020			
wither Reaver								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.										
(See Page 2 for required number of digits/characters for each block)								Send comments regarding burden estimate to the Information Services Branch (T-2 F43), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by 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 does not display a currently valid OMB control number, the										
(See NUREG-1022, R.3 for instruction and guidance for completing this form http://www.nrc.gov/reading-rm/doc-collections/nuregs/staff/sr1022/r3/)								NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.										
1. FACILITY NAME									2. DO	2. DOCKET NUMBER 3. PA					PAGE			
Nine Mile Point Unit 1								05000220 1 OF 4										
4. TITL						-												_
Mar	nual Re	eactor S	Scram	due to	Press	ure a	nd Pow	ver Os	scil	llations	i							
5. EVENT DATE 6. LER NUMBER 7. REPORT DAT							ATE 8. OTHER FACILITIES INVOLVED											
MONTH	DAY	YEAR	YEAR SEQUENTIAL NUMBER			REV MONTH DAY					FACILITY NAME			N			DOCKET NUMBER	
04	29	2019	2019	- 003		00	06	28		2019	-	FACILITY NAME		DOCKET NUMBER				
			11. THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check all that appl)								nolv)							
9. OPERATING MODE 11. THIS REPORT IS SUBMITTED PURSUANT TO THE 20.2201(b) 20.2203(a)(3)(i)								50.73(a)(2)(ii)(A) 50.73(a)(2)(viii)(A)										
N			20.2201(d)				20.2203(a)(3)(ii)					50.73(a)(2)(ii)(B)			50.73(a)(2)(viii)(B)			
		20.2203(a)(1)			20.2203(a)(4)				_	50.73(a)(2)(iii)			50.73(a)(2)(ix)(A)					
			20.2203(a)(2)(i)			1	50.36(c)(1)(i)(A)			4)	50.73(a)(2)(iv)(A)			50.73(a)(2)(x)				
10. POWER LEVEL			20.2203(a)(2)(ii)				50.36(c)(1)(ii)(A)			A)	50.73(a)(2)(v)(A)			73.71(a)(4)				
			20.2203(a)(2)(iii)				50.36(c)(2)				50.73(a)(2)(v)(B)			73.71(a)(5)				
		20	50.46(a)(3)(ii)				50.73(a)(2)(v)(C)			73.77(a)(1)								
082			20.2203(a)(2)(v)			50.73(a)(2)(i)(A)			A)) 50.73(a)(2)(v)(D)			73.77(a)(2)(i)					
			20.2203(a)(2)(vi)				50.73(a)(2)(i)(B)			В)) 50.73(a)(2)(vii)			73.77(a)(2)(ii)				
50.7							'3(a)(2)	_				Specify in	Abstract b	oelow or ir	NRC Fo	orm 36	56A	
LICENSEE	CONTACT					12. L	CENSEE	CONT	AC	T FOR 1	TH	IS LER	TELE	PHONE	NUMBER	(Include	Area	Code)
		nultz, Si	te Regu	latory	Assurar	nce M	anager								315) 3			
			13. CON	IPLETE				_	NE		UF		IN THIS R				DED	
CAUS	CAUSE SYSTEM		COMF	ONENT	FACTURER			REPORTABLE TO EPIX		CAUSE		SYSTEM	COMPONEN	T F	MANU- FACTURE			ORTABLE DEPIX
X		JJ	F	RG	GE		Y			N/A		N/A	N/A		N/A			N/A
								15. EXPECTED SUBMISSION			ONTH	DAY	_	YEAR				
YES (If yes, complete 15. EXPECTED SUBMISSION DATE) NO DATE 08 02 2019 ABSTRACT (Limit to 1400 spaces, i.e., approximately 15 single-spaced typewritten lines)											2019							
	•				-		-			a mar	נור	al reactor s	cram due	e to n	ressu	ire ar	nd r	ower
												automaticall		•				
												50.73(a)(2)(i						
that re	sulted	in a m	anual c	or auto	matic a	actua	tion of	any c	of t	ne sys	ste	ems listed in	10 CFH	50.7	3(a)(:	2)(IV)	(B)	•
The ca 2019.	ause o	f the ev	vent is i	under	investi	gatio	n and a	a supp	ole	ementa	al I	report is pla	nned for	subn	nittal	by Aι	ıgu	st 2,
		••							-									
i ne e	vent de	escribe	a in thi	3 LER	IS COCI	umen	itea in '	ine pl	an	ICS COI	re	ective action	progran	ι.				
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NRC FORM 366A U.S. NUCLEAR REGULAT	ORY COMMISSION	APPROVED BY OMB: NO. 315			S: 03/31/2020					
NEGULA.		Estimated burden per response to comp lessons learned are incorporated into comments regarding burden estimate t	the licensing	g process and fed back to	o industry. Send					
		Regulatory Commission, Washir Infocollects.Resource@nrc.gov, and to	ngton, DC	by e-mail to						
CONTINUATION S		NEOB-10202, (3150-0104), Office of Ma	anagement and	agement and Budget, Washington, DC 20503. If a me does not display a currently valid OMB control number,						
(See NUREG-1022, R.3 for instruction and guidance for on http://www.nrc.gov/reading-rm/doc-collections/nuregs/		NRC may not conduct or sponsor, an collection.	nd a person i	s not required to respond	to, the information					
1. FACILITY NAME	2. DOC	KET NUMBER	3. LER NUMBER							
Nine Mile Point Unit 1	05000220		YEAR	SEQUENTIAL NUMBER	REV NO.					
	03000220		2019	- 003	- 00					
NARRATIVE										
I. DESCRIPTION OF EVENT										
A. PRE-EVENT PLANT CONDIT	FIONS:									
Prior to the event, Nine Mile reactor power. Power ascen	•	•	r Opera	ting Condition	at 82%					
B. EVENT:										
level and power during powe	On April 29, 2019, at approximately 16:30, NMP1 experienced oscillations in reactor pressure, level and power during power ascension. A manual reactor scram was inserted when the procedural limits were reached.									
	The scram resulted in shrink of the water level in the reactor vessel and the low level set point was reached. This resulted in a HPCI initiation as designed.									
Nine Mile Point Unit 2 (NMP2	Nine Mile Point Unit 2 (NMP2) was unaffected by the scram at NMP1.									
· · ·	Operations performed the ENS notification (#54035) required by 10 CFR 50.72(b)(2)(iv)(B) and 10 CFR 50.72(b)(3)(iv)(A) for the reactor scram and specified system activations.									
This event has been entered	This event has been entered into the plant's corrective action program as IR 4244521.									
C. INOPERABLE STRUCTURES THE EVENT:	S, COMPONENT	'S, OR SYSTEMS THA	T CON	TRIBUTED TO						
No other systems, structures	, or component	s contributed to this ev	vent.							
D. DATES AND APPROXIMATE ACTIONS:	E TIMES OF MA	JOR OCCURRENCES	AND O	PERATOR						
The dates, times, and major	occurrences an	d operator actions for	this eve	ent are:						
April 29, 2019 16:29—Control Rod 14-39 w 16:29—Operators observe re 16:30—Operator places the malfunction 16:30—Operators enter SOF 16:33—Mode switch placed 16:33—HPCI initiation due to 16:34—HPCI reset	eactor power, pr feedwater flow o P for pressure re in shutdown	essure and level osci control valve in manua egulator malfunctions	llations	eck for controlle	P					
		· · · · · · · · · · · · · · · · · · ·								

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NRC FORM 366A (04-2017)) U.S. NUCLEAR REGUL LICENSEE EVENT RE CONTINUATION (See NUREG-1022, R.3 for instruction and guidance f http://www.nrc.gov/reading-rm/doc-collections/nure	EPORT (LER) I SHEET	Estimated burden per response to comply with this mandatory collection request: 80 hours. Report lessons learned are incorporated into the licensing process and fed back to industry. S comments regarding burden estimate to the information Services Branch (T-2 F43), U.S. Nuc Regulatory Commission, Washington, DC 20555-0001, or by e-mail infocollects.Resource@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Aff NEOB-10202, (3150-0104), Office of Management and Budget, Washington, DC 20503. If a me used to impose an information collection does not display a currently valid OMB control number, NRC may not conduct or sponsor, and a person is not required to respond to, the informa- collection.							
1. FACILITY NAME	2. DOC			ER REV					
Nine Mile Point Unit 1	05000220		year 2019	SEQUENTIAL NUMBER	NO. - 00				
NARRATIVE			2010						
E. METHOD OF DISCOVERY									
This event was discovered power oscillations were ob			r préssi	ure, level and					
F. SAFETY SYSTEM RESPON	ISES:								
All safety systems respond	ded per design.								
II. CAUSE OF EVENT:									
The cause of the event is bein	ig investigated and	d will be provided in th	ne suppl	lement.					
III. ANALYSIS OF THE EVENT:									
The reactor scram and specifi 50.73(a)(2)(iv)(A), as any even any of the specified systems li The non-optimal tuning resulte region during reactor startup t	nt or condition tha isted in 10 CFR 50 ed in EPR pressur hat produced read	t resulted in manual o 0.73(a)(2)(iv)(B). re control issues in the stor pressure, level an	r autom 80-90% d powei	atic action of % power r oscillations					
greater than those allowed wit reactor scram was inserted pe		essure regulator availa	able. A	manual					
All other plant systems perform and power oscillations, remain loss of offsite power to the one system initiated as designed o	ned within normal site emergency bu	values throughout the uses, the HPCI mode of	event.	There was no					
Based on the above discussic low and the event did not pose personnel.	•								
This event does affect the NR scrams per 7000 hours of criti		ersight Process Indicat	tor for u	nplanned					
IV. CORRECTIVE ACTIONS:									
A. ACTION TAKEN TO RETU STATUS:	JRN AFFECTED S	YSTEMS TO PRE-EVI	ENT NO	RMAL					
Tuning of the Turbine Cor									

U.S. NUCLEAR REGULAT	ORY COMMISSION		ply with this m the licensin to the Informa ngton, DC	andatory collection request: 8 g process and fed back to titon Services Branch (T-2 F 20555-0001, or b	o industry. Sen ⁻ 43), U.S. Nuclea by `e-mail t
(See NUREG-1022, R.3 for instruction and guidance for http://www.nrc.gov/reading-rm/doc-collections/nuregs	completing this form.	Infocollects.Resource@nrc.gov, and to NEOB-10202, (3150-0104), Office of Ma used to impose an information collection NRC may not conduct or sponsor, ar collection.	anagement an on does not dis	d Budget, Washington, DC 2 splay a currently valid OMB o	20503. If a mean control number, th
1. FACILITY NAME	2. DOC	KET NUMBER		3. LER NUMBER	3
Nine Mile Point Unit 1	05000220		YEAR 2019	SEQUENTIAL NUMBER - 003	REV NO. - 00
NARRATIVE					
B. ACTION TAKEN OR PLANN	ED TO PREVEN	T RECURRENCE:			
To be provided in the supple	ment when the	root cause evaluation	is com	pleted.	
V. ADDITIONAL INFORMATION:					
A. FAILED COMPONENTS:					
Tuning of the EPR was not o	ptimal. There v	vere no individual con	nponen	t failures.	
B. PREVIOUS LERS ON SIMILA	R EVENTS:			·	
 NMP1 LER 2017-002, subm power. The cause of that ever coupled with hysteresis foun Control (MHC) Bypass Relay 1. Implementation of a two- filling of the pressure ser replace when required. 2. Revision of associated p 3. Revised the Turbine Trip These actions do not ensure this event. 	ent was a partia d within the cyli y. The actions t year preventive using bellows lin rocedures to inc Test procedure	I blockage within the I nder stroke of the Me o prevent recurrence maintenance activity e and associated pipi clude steps to flush an e.	VPR se chanica in 2017 for rout ng with nd backt	nsing line I Hydraulic included: ine flushing an contingencies fill sensing lines	to
C. THE ENERGY INDUSTRY ID IDENTIFIER AND SYSTEM I IN THIS LER:)
<u>COMPONENT</u>		IEEE 803 FUNCTION <u>IDENTIFIER</u>		IEEE 805 SYSTEM DENTIFICATIO	<u>DN</u>
Reactor Pressure Vessel Feedwater Level Control Sys High Pressure Coolant Injec Reactor Protection System Turbine Control System		RPV N/A N/A N/A N/A	-	AD JB BJ JC JJ	

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