

P.O. Box 63 Lycoming, NY 13093

June 13, 2005 NMP1L 1957

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

SUBJECT: Nine Mile Point Unit 1 Docket No. 50-220 Facility Operating License No. DPR-63

> Licensee Event Report 05-002, "Fuel Moved with an Inoperable Source Range Monitor Due to Human Error Resulting in a Technical Specification Violation"

Gentlemen:

In accordance with 10 CFR 50.73(a)(2)(i)(B), Nine Mile Point Nuclear Station, LLC hereby submits Licensee Event Report 05-002, "Fuel Moved with an Inoperable Source Range Monitor Due to Human Error Resulting in a Technical Specification Violation."

5'Connor Plant Øgneral Manager

TJO/KSE/sac Attachment

cc: Mr. S. J. Collins, NRC Regional Administrator, Region I Mr. G. K. Hunegs, NRC Senior Resident Inspector

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12. LICENSEE CONTACT FOR THIS LER TELEPHONE NUMBER (Include Area Code) 315-349-4039 MARE MANU- M. Steven Leonard, General Supervisor Licensing TELEPHONE NUMBER (Include Area Code) 315-349-4039 #13. COMPLETE ONE LINE FOR EACH COMPONENT FALURE DESCRIBED IN THIS REPORT CAUSE SYSTEM COMPONENT MANU- FACTURER REPORTABLE TO EPIX A IG RI GE Y MONTH DAY YEA 14. SUPPLEMENTAL REPORT EXPECTED 15. EXPECTED MONTH DAY YEA JYES (If yes, complete 15. EXPECTED SUBMISSION DATE) NO DATE ABSTRACT (Limit to 1400 spaces, i.e., approximately 15 single-spaced typewritten lines) On April 14, 2005, at approximately 1654 hours, with the reactor in the "Refueling Condition" and spiral core reload in process, fuel moves were stopped when source range monitor (SRM) 12 failed to indicate any neutron counts when a twice burnt fuel bundle was placed adjacent to the SRM to achieve the required minimum count rate. Technical Specification 3.5.3.b states, "During core alterations two SRMs shall be operable, one in and one adjacent to any core quadrant where fuel or control rods are being moved. Operable SRMs shall have a minimum of 3 counts per second except as specified in d and e below." Contrary to this, fuel was moved adjacent to an inoperable SRM (12). The SRM faile	10. POW	N VER LEV 000	/EL	20.21 20.22 20.22 20.22 20.22 20.22 20.22 20.22 20.22 20.22 20.22 20.22 20.22	201(b) 201(d) 203(a)(203(a)(203(a)(203(a)(203(a)(203(a)(203(a)(203(a)((1) (2)(i) (2)(ii) (2)(iii) (2)(iv) (2)(v) (2)(v) (2)(vi)			20.2203(a) 20.2203(a) 20.2203(a) 50.36(c)(1) 50.36(c)(1) 50.36(c)(2) 50.46(a)(3) 50.73(a)(2) 50.73(a)(2)	(3)(i) (3)(ii) (4) (i)(A) (ii)(A) (ii) (i)(A))(i)(A))(i)(B)		□ 50.73(a) □ 50.73(a) □ 50.73(a) □ 50.73(a) □ 50.73(a) □ 50.73(a) □ 50.73(a) □ 50.73(a) □ 50.73(a)	(2)(i)(C) (2)(ii)(A) (2)(ii)(B) (2)(ii) (2)(iv)(A) (2)(v)(A) (2)(v)(B) (2)(v)(C) (2)(v)(D)		50.7 50.7 50.7 50.7 50.7 50.7 50.7 73.7 73.7 73.7 50 74 50 73.7	8(a)(2)(vii 8(a)(2)(vii 8(a)(2)(vii 8(a)(2)(ix) 8(a)(2)(ix) 8(a)(2)(ix) 8(a)(2)(ix) 8(a)(2)(ix) 8(a)(2)(ix) 8(a)(2)(ix) 8(a)(2)(ix) 8(a)(2)(ix) 8(a)(2)(ix) 8(a)(2)(vii 8(a)(2)(vi) 8(a)(2)))(A)))(B) (A) stract below rm 366A
M. Steven Leonard, General Supervisor Licensing 315-349-4039 #13. COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT CAUSE SYSTEM COMPONENT MANU- FACTURER REPORTABLE TO EPIX CAUSE SYSTEM COMPONENT REPORTABLE TO EPIX A IG RI GE Y A A A A A A A A A BE Y A A A A A A A A BE Y A A A A A A BE Y A A A A A A B A A A B B A A A B C A A B C A A B C A A A A A A A A A B C A A B C A A A A A A A B C A A A A A A B A	NAME						1	2. LICENS	SEE CON	FACT FO	R THI	S LER	I.	15165		(Include A	na Code)
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RC FORM 366A U.S. NUCLEAR REGULAT				=B)			
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Nine Mile Point, Unit 1		05000220	2005	NUMBER	NUMBER 00	2 0⊦	5
ARRATIVE (If more space is required, use add	ditional copies of N	IRC Form 366A) (1	7)				
I. Description of Event							
On March 21, 2005, Nine Mile Poir unload and reload was implemente	nt Unit 1 comme	enced refueling	outage 18.	During this or	utage, a fu	ull core spiral	
 preparations to begin moving fuel f approximately 1155 hours, operator position. Permission was given to On April 14, 2005, at approximately twice-burnt fuel bundle was placed achieved to satisfy SRM operability first fuel bundle next to SRM 12; he was expected. Due to the unexperience of the investigation determined that \$\$\$ SRM drawer. An extent of condition operable. However, two intermedia Fuel moves did not recommence of operable. However, two intermedia Fuel moves did not recommence of operable. However, two intermedia Fuel moves did not recommence of operability of the SRM 12 was verif 2005, required the cables to be recommended in the other activity involved the other	from the spent fors entered the commence cor y 1654 hours, w I next to source y verification re- owever, no resp cted response, SRM 12 was in on review was o ate range monit until an investig fied. Maintenan connected. The porting docume is connected by activity involve undervessel wo a 3.5.3.b is the I shall be opera MP believes a v of the SRMs ba M was left inop conent failures a nected followin other functions is written, resul ng procedural of nator failed to a confi by a coordin	fuel pool to the r Refuel mode wi re reload in acco while completing a range monitor (quirements of To ponse was obse Operations stop operable due to conducted which ors (IRMs), 11 a ation was completed ince activities an e work steps we entation, the und the technician. The technician is a completed the technician is a completed to a completed by basis for submited ble, one in and of iolation of Technic ased on effective erable in the quarter associated with g maintenance is or components cabling association the technician is a components cabling association the technician is a components cabling association the technic of the technic associated with g maintenance is compliance were adequately verify of relanded. The lator who misinter	eactor were the the Reactor rdance with move 7 of - SRM) 12 to echnical Spec- rved on SRI ped fuel mo- instrumental determined adtermined attrumental determined determine	underway. L or Mode Swit fuel handling - 650 moves ensure 3 cou- cification 3.5 A 12 or the as ves pending tion cables b that the rem also found w erstand the ca to cables b that the rem also found w erstand the ca d work instruct off by the te ordinator ann two major a Mile Point ins tal work force of the Point ins tal work force of used by deg be SRM being W 12 was not erable. The r t nor adequat of the lifted lead log	ater that s ich locked procedur of the core ints per se i.3.e. This ssociated investigati eing disco aining three vith discom auses of the ctions on S echnician. otated the ctivities as trument ai personne al Specifica quadrant v o occurred es and pra oved. radation o g inoperab	ame day at in the "Refuel res. e reload plan, a econd would be s move placed period meter a ion of the prob onnected from the SRMs were nected cables he inoperability SRM 12 on Apr However, bas e steps as com ssociated with ation 3.5.3.b st where fuel or I because the ation at the state of this is that able. The inoper atted due to faile for this is that and controls sho e was not signed	a e l the as lem. the γ and ril 9, sed plete the op ates, er, ilure. rable ure to tenanc Sheet ed off I

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NRC FORM 366A U.S. NUCLEAR REGULATORY (1-2001)		T REPORT (LER)				
FACILITY NAME (1)	DOCKE	T (2)	LER NUMBER (6)		F	PAGE (3)	
Nine Mile Point, Unit 1	05000	R (2) YEAR · 220 YEAR · 2005	SEQUENTIAL NUMBER	REVISION NUMBER	3	OF	5
NARRATIVE (If more space is required, use additional	al copies of NRC Form 30	56A) (17)					
II. Cause of Event (Continued)	·	1					
Contributing causes included:							
Inadequate pre-job briefs. The pre-job were not present at the pre-job briefs a and undervessel team did not conduct interface to occur. Inadequate self checking. The underve	briefs were not thor nd details about the an integrated pre-jol essel coordinator dic	ough and their co entire work scop brief, even thou not use the ST/	ontent was inac be were not kno ugh the work pr AR (Stop, Think	lequate. W wn. The r ocedures x, Act, and	Vork pao maintena required Review)	kages ance crev an) human	w
attitude when finding the nuclear instru	mentation cables alr	ts and the maint eady disconnect	enance crew di ed.	d not displ	lay a que	estioning	
III. Analysis of Event							•
No other systems or components were The condition of the inoperable SRM di transient or directly impact the operabil the reactor and all control rods were fu	inoperable at the st id not result in any re ity of any other equi lly inserted prior to th	art of the event t equired automati oment. All contro ne event to main	hat contributed c plant respons ol rod drive med tain full shutdov	to the sev e nor did i chanisms v vn margin.	erity of t t initiate were ins	he event. any plan talled in	it
Technical Specification 3.5.3, Extended during major core alterations. The object being removed from the core. Technic any core quadrant where fuel is being removed was not operable due to cables bundle was moved into the quadrant.	d Core and Control F ective is to assure th al Specification 3.5. noved. Contrary to being disconnected	Rod Drive Mainte at inadvertent cr 3.b requires two this, the SRM in . The inoperable	enance, applies iticality does no operable SRMs the core quadra SRM was ider	to core re t result wh s, one in an ant into wh ntified whe	activity li ien contr nd one a nich fuel in the firs	mitations ol rods a Idjacent t was st fuel	s are to
Because only a single fuel bundle was chance of an inadvertent criticality sinc necessary to support criticality. This is loaded and one control rod fully withdra criticality by allowing no more than two operability before proceeding with load	placed in the quadra e a single bundle ca based upon the fac awn. Unit 1 Technic bundles to be place ing additional fuel.	Int associated wi nnot provide the that the core is al Specification 3 d in a quadrant c	ith the inoperab required geom- designed to be 3.5.3.e is desigr luring a spiral re	le SRM, thetry and new subcritica new to prevent to prevent to prevent to to the to be to	nere was eutron s I with all vent an it erify SRM	; no ource bundles nadverte: A	nt
The availability of systems or compone conditions, remove residual heat, contr accident were not impacted during this provided to monitor the core during per and station startup. Three operable SF by fuel loading or dispersed withdrawal were fully inserted. Because the proba not challenge the limiting transient/acci increased.	nts that are needed ol the release of rad event. Three of fou iods of station shutd RMs ensures adequa s of control rods dur bility of fuel damage dent condition alread	to shutdown the ioactive material r SRMs were op own and to guid ate coverage for ing station startu was not increas dy analyzed for t	reactor or main , or mitigate the erable during the e the operator of all possible critic p. At the time of red during the e he cycle, the co	ntain safe s conseque is event. ⁻ during refu ical config of the even event and to ore damag	shutdow ences of The SRM leling op urations nt, all co he cond e risk wa	n As are erations produce ntrol rods ition did as not	d s
Had the operators not recognized the in 12, per Technical Specification 3.5.3.e. second fuel bundle was placed next to maintain 3 cps on the SRM before mor stopped fuel moves after the first bundle not challenged. Therefore, there was re-	noperable condition , the operators woul SRM 12. Technical e than two fuel bund e was moved next to no possibility of an in	of the SRM when d have been req Specification 3. les are moved ir o SRM 12, they o advertent critica	n the first bundl uired to verify S 5.3.e. requires p nto the quadran ensured Techni lity resulting.	e was plac RM 12 op plant opera t. When t cal Specif	ced next perability ators to o he opera ication 3	to SRM when a obtain an ators 5.5.3.e. w	nd vas

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	FACILITY NAME (1)		DOCKET (2) NUMBER (2)	LER NUMBER (6)	PAGE (3)
Nine Mile	e Point, Unit 1	ې. د ا	05000220	YEAR SEQUENTIAL NUMBER 2005 002	REVISION NUMBER 00
RRATIVE (If m	ore space is required, use a	dditional copies of I	NRC Form 366A) (1	l 7)	
III. Analys	is of Event (Continued)			
trip system systems. trip system of Technic Based on Emergenc	 IRMs 11 and 15, als IRM 11 provides input B. All other IRMs were al Specification 3.6.2 were the above, the event divide a specification 	o found to be in to Reactor Prote re operable. Wit vere met. d not pose a thr ed because no e	operable due ins ection System (R h all IRMs opera eat to the health ntry conditions w	trument cables left disconr PS) trip system A and IRM ble except for 11 and 15, th and safety of the public or vere met.	nected, are in different trip I 15 provides input to RPS he minimum requirements plant personnel. The
IV. Correc	tive Actions		• •		
A. Ac	tion Taken to Return A	Affected Systems	s to Pre-Event N	ormal Status:	
	The cause of the ino quadrant were re-cor the other three SRMs disconnected instrum status.	perable SRM wa mmenced. An e s. The extent of nentation cables	as determined ar extent of condition condition review following mainte	nd corrected before fuel mo n review was completed to v identified two IRMs that w enance. These IRMs were	oves in the affected verify the operability of vere also left with returned to operable,
В. Ас	tion Taken or Planned	to Prevent Rec	urrence:	· ·	
	NOTE: There are no	NRC regulator	y commitments i	n this Licensee Event Repo	ort.
	Took accountability a accountability include tools, such as STAR documents that are f counseling with the p through Human Rese	actions regarding ed lessons on pr self-checking a lagged for critica personnel involve purces.	g supervisory and ocedure complia nd conduct of int al steps. These a ed and documen	d craft personnel involved v ince, use of human perforr egrated pre-job briefings u iccountability actions includ tation of the actions in the	with this event. This nance error prevention sing copies of the work ded job performance individual's personnel file
-	As a compensatory r orders and procedure	neasure, a deta es will be condu	iled review of a rected to verify the	epresentative sample of cle extent of procedure comp	osed maintenance work liance issues.
-	The procedure comp specific examples from	liance element o om this and simi	of the human per lar events.	formance training material	I will be enhanced with
-	The appropriate Mair	ntenance depart	ment administrat	tive procedure for the cond	luct of Maintenance will be pre-iob briefs.

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		FACILITY NAME (1)		DOCKET (2) NUMBER (2)	1	LER NUMBER (6)	PAGE (3)
N	line	Mile Point, Unit 1		05000220	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	5 OF 5
			•		2005	002 -	- 00	
ARRAT	rive :	(If more space is required, use additional	copies of N	IRC Form 366A) (17)		b	
V.	Ad	ditional Information						
	A.	Failed Components:						
		- There is a start of a start up tram rate	-lina outa	17 (April 200		: failed to reen	and to a no	utron flux .
		During reactor startup from return Troubleshooting revealed the ur on failure to perform adequate p scheduled. Review of the assoc undervessel Lemo connector was which had been scope-added in connector was never disconnect 15 undervessel connector was r information and it appears to be 12 and IRM 11 and 15 events in who performed the reconnects a	eling outa adervesse lost maint iated com as not fully to the refu- led, when lot fully se a lack of refueling und what	age 17 (April 200 al detector conne- tenance testing (nector work perf y seated. The w ueling outage wa in fact it was. eated and that as validation and v outage 18 in that work document of	3), IRM 15 ctor was of PMT), Ch ormed by ork packa is deleted There are ssumption erification it mis-com completed	5 failed to resp disconnected. aracterization Constellation ge was compl based on a fa some parallel s were made of that informa munication at the work.	oond to a ne The cause (CHAR) tes I&C reveale leted, howen Ise assump s with this e about the Pl ation. This ind assumpt	eutron flux. of the event focu- sting, as originally d the IRM 15 ver the CHAR tes otion that the IRM vent in that the IR MT based on fals is similar to the S ions were made of
	С.	During reactor startup from return Troubleshooting revealed the ur on failure to perform adequate p scheduled. Review of the associundervessel Lemo connector was which had been scope-added in connector was never disconnect 15 undervessel connector was n information and it appears to be 12 and IRM 11 and 15 events in who performed the reconnects a Identification of systems and con	eling outa ndervesse jost maint iated coni as not fully to the refi ted, when not fully se a lack of refueling and what m nponents	age 17 (April 200 el detector conne tenance testing (nector work perf y seated. The w ueling outage wa n in fact it was. eated and that as validation and va outage 18 in that work document of referred to in thi	3), IRM 15 otor was of PMT), Choormed by ork packa is deleted There are ssumption erification at mis-com completed s Licensee	5 failed to resp disconnected. aracterization Constellation ge was compl based on a fa some parallel s were made of that information and the work. e Event Report	bond to a ne The cause (CHAR) tes I&C reveale leted, howen ilse assump s with this e about the Pl ation. This is nd assumpt	eutron flux. of the event focu- sting, as originally d the IRM 15 ver the CHAR tes bion that the IRM vent in that the IF MT based on fals is similar to the S ions were made o
	С.	During reactor startup from return Troubleshooting revealed the ur on failure to perform adequate p scheduled. Review of the associundervessel Lemo connector was which had been scope-added in connector was never disconnect 15 undervessel connector was r information and it appears to be 12 and IRM 11 and 15 events in who performed the reconnects a Identification of systems and con <u>Components</u>	eling outa adervesse oost maint iated com as not fully to the refi ted, when not fully se a lack of refueling and what nponents	age 17 (April 200 b) detector conne- tenance testing (nector work perf y seated. The w ueling outage was in fact it was. eated and that as validation and va outage 18 in that work document of referred to in thi = 805 System ID	3), IRM 15 ector was (PMT), Ch ork packa is deleted There are ssumption erification at mis-com completed s Licensee	5 failed to resp disconnected. aracterization Constellation ge was compl based on a fa some parallel s were made of that informa munication and the work. e Event Repor	bond to a ne The cause (CHAR) tes I&C reveale leted, howev ilse assump s with this e about the P ation. This ind assumpt rt: <u>Function</u>	eutron flux. of the event focu- sting, as originally d the IRM 15 ver the CHAR tes otion that the IRM event in that the IRM MT based on fals is similar to the S ions were made of