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DOCKET # DOC.DATE: 90/01/30 NOTARIZED: NO ACCESSION NBR:9002070108 FACIL: 50-410 Nine Mile Point Nuclear Station, Unit 2, Niagara Moha 05000410 AUTHOR AFFILIATION AUTH.NAME Niagara Mohawk Power Corp. Niagara Mohawk Power Corp. COLOMB, M.J. WILLIS, J.L. RECIPIENT AFFILIATION RECIP.NAME

SUBJECT: LER 90-001-00 on 900103, control room special filter train actuation due to breaker cycling. ltr.

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NINE MILE POINT NUCLEAR STATION/P.O. BOX 32, LYCOMING, N.Y. 13093/TELEPHONE (315) 343-2110

NMP55218

January 30 , 1990

United States Nuclear Regulatory Commission Document Control Desk Washington, DC 20555

RE: Docket No. 50-410 LER 90-01

Gentlemen:

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In accordance with 10CFR50.73, we hereby submit the following Licensee Event Report:

LER 90-01 Is being submitted in accordance with 10CFR50.73 (a)(2)(iv), "Any event or condition that results in manual or automatic actuation of any Engineered Safety Feature (ESF).

This report was completed in the format designated in NUREG-1022, Supplement 2, dated September 1985.

Very truly yours,

I.L. J. L. Willis

General Superintendent Nuclear Generation

JLW/DPS/lmc

ATTACHMENT

Regional Administrator, Region I xc: Sr. Resident Inspector, W. A. Cook

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or the event was the electrical interference associated with the cycling of a control building chiller breaker. The corrective														
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NRC FORM 366A (6.89) LICENSEE EV TEXT CO	U.S. NUCLEAR REGULATORY COMMISSION VENT REPORT (LER) ONTINUATION	APPROVED OMB NO. 315 EXPIRES: 4/30/92 ESTIMATED BURDEN PER RESPONSE T INFORMATION COLLECTION REQUEST: COMMENTS REGARDING BURDEN ESTIM AND REPORTS MANAGEMENT BRANCH REGULATORY COMMISSION, WASHINGT THE PAPERWORK REDUCTION PROJEC OF MANAGEMENT AND BUDGET, WASHI	0 0004 O COMPLY WTH THIS 50.0 HRS. FORWARD ATE TO THE RECORDS (P5.30), U.S. NUCLEAR ON, DC 20555, AND TO T (3150.0104), OFFICE NGTON, DC 20503.
FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6)	PAGE (3)
		YEAR SEQUENTIAL REVISION	· · · ·
Nine Mile Point Unit 2	. 0 15 10 10 1 4 1 0	9 0 _ 0 0 1 _ 0 0	0 ₁ 2 _{0F} 0 ₅
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I. DESCRIPTION OF EVENT

On January 2, 1990, at approximately 1245 hours, the Division 1 Control Room Special Filter Train was declared administratively inoperable in accordance with Tech. Spec. Interpretation #25 due to a failed surveillance (N2-OSP-HVK-Q002) on the Division 1 Control Building Chill Water Circ Pump (2HVK*P1A). The Division 1 Control Building Chiller (2HVK*CHL1A) was removed from service and a yellow hold out placed on the control switch for 2HVK*CHL1A. A Work Request was generated to check the calibration of Division I Control Building Chiller Flow Transmitter (2HVK*FT15A).

On January 3, 1990, at approximately 0928 hours, the operating shift attempted to start 2HVK*CHL1A in accordance with Control Building Ventilation Procedure (N2-OP-53A), to perform a retest of surveillance N2-OSP-HVK-Q002. Upon the start attempt of 2HVK*CHL1A, the chiller supply breaker (2EJS*US1-4D) closed and opened four times in a period of approximately 26 seconds. The cause of the trip appeared to be low lube oil pressure. Concurrent with the cycling of 2EJS*US1-4D breaker, Control Building Ventilation Radiation Monitors, 2HVC*RE18A and 2HVC*RE18C, tripped on a spurious high radiation signal and auto started the Division 1 Control Building Special Filter Train.

Concurrent with the cycling of 2EJS*US1-4D breaker, Source Range Monitor (SRM) short period alarms were received on P603, investigation of the individual Source Range Monitor channels indicated short period trip on all SRM channels.

Operations personnel immediately verified the Reactor (Rx) was subcritical by checking for changes in Core power on the SRM and Intermediate Range Monitors (IRM) and verified the high radiation trip of 2HVC*RE18A and 2HVC*RE18C as spurious by checking the radiation monitors on the Digital Radiation Monitor System (DRMS) computer. The Control switch for 2HVC*CHL1A was placed in Pullto-Lock and the Control Building Ventilation system restored to normal operation using the Division 2 Control Building Chiller (2HVK*CHL1B). No other components were inoperable which contributed to this event.

An inspection of the chiller revealed a low oil level condition that was the probable cause of the trip and cycling (the low oil level would cause a low oil pressure trip). The low oil level was not detected prior to the start attempt (no local inspection was performed, and the condition is not annunciated). * . . • • . · _ _

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LICENSEE EVENT REPORT TEXT CONTINUATION	RM 366A U.S. NUCLEAR REGULATORY COMMISSION LICENSEE EVENT REPORT (LER) TEXT CONTINUATION		APPROVED OMB NO. 3150-0104 EXPIRES: 4/30/92 ESTIMATED BURDEN PER RESPONSE TO COMPLY WTH THIS INFORMATION COLLECTION REQUEST: 50.0 HRS. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE RECORDS AND REPORTS MANAGEMENT BRANCH (P-530), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0104), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.				
FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6)	PAGE (3)				
Nine Mile Point Unit 2	0 5 0 0 0 4 1 0	VEAR SEQUENTIAL REVISION 9 0	0 3 OF 0 5				

TEXT (If more spece is required, use additional NRC Form 366A's) (17)

II. CAUSE OF EVENT

The apparent cause of the event was the tripping and cycling of the chiller breaker due to low oil pressure (because of low oil level) and the sensitivity of the radiation monitors to electrical disturbances. The low oil level was caused by an oil leak from the sump to the refrigerant reservoir. The apparent cause of the chiller cycling was a sticking relay, (the cycling could not be reproduced during troubleshooting). The root cause of the sensitivity of the radiation monitors to electrical disturbances is still under investigation. The root cause, and any additional corrective actions, will be described in a supplement to this LER.

III. ANALYSIS_OF_EVENT

This event is reportable under 10CFR50.73(a)(2)(iv), "Any event or condition that results in manual or automatic actuation of any Engineered Safety Feature (ESF)".

The Control Room Special Filter Trains are a part of the Habitability Systems identified in the Nine Mile Point 2 USAR Section 6.4. These Habitability Systems are provided to ensure that the plant operators can remain in the main Control Room and take actions to operate the plant safely under normal conditions and to maintain it in a safe condition under all accident conditions.

The Control Building Special Filter Trains are designed to remove radioiodines from the Control Room ventilation outdoor air supply during a design basis accident.

The spurious trip of 2HVC*RE18A and 2HVC*RE18C placed the Division 1 Control Building Special Filter Train in service when its operation was not required. This is a conservative action. The duration of this event is undetermined as the chiller has not been returned to operable status.

IV. CORRECTIVE ACTIONS

1. The relay that is suspected of sticking will be replaced when a replacement is received.



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NRC FORM 366A (6-89)	U.S. NUC	CLEAR REGULATORY COMMISSION	APPROVED OMB NO EXPIRES: 4/	D, 3150 0104 30/92
•	LICENSEE EVENT REPORT (LE TEXT CONTINUATION	ER)	ESTIMATED BURDEN PER RESPON INFORMATION COLLECTION REOL COMMENTS REGARDING BURDEN I AND REPORTS MANAGEMENT BRA REGULATORY COMMISSION, WASH THE PAPERWORK REDUCTION PR OF MANAGEMENT AND BUDGET, W	NSE TO COMPLY WTH THIS UEST: 50.0 HRS, FORWARD ESTIMATE TO THE RECORDS NNCH (P-530), U.S. NUCLEAR INNGTON, DC 2055, AND TO IOJECT (3150-0104), OFFICE IASHINGTON, DC 20503.
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TEXT (If more space is req	The sensitivity of the disturbances is being in be evaluated and the ac	e radiation mo vestigated. Rec ctions taken wi	nitors to elec commended change 11 be described	trical s will in a
_	supplement to this LER.	[.]	ationtod and w	il be
3.	The oil leakage problem repaired as required.	n is being inve	scigated and wi	, TTT De
4.	N2-OP-53A Section 1.0 ha checks prior to starting	s been changed t g an idle chille	to perform opera er.	tional
5.	A review of N2-ODI-5.08 shift personnel stress prestart checks on idle	, 5.0, Operator sing the reaso equipment has b	Good Practices n and importan been completed.	, with ce of
<u>v.</u>	ADDITIONAL INFORMATION	, · · · ·		
Α.	Identification of compo	nents referred t	to in this LER. 303 805	TD
COMPC	- Division 1 Control B	<u>FUNC</u>	VI	<u>+ D</u>
2HVK*FT15	Chiller Water Circ P A - Division 1 Control B Chiller - Chilled Wa	ump uilding I ter Flow	FIT VI	
2HVK*CHLI	A - Division 1 Control B Chiller	uilding	CHU VI	
2EJS*US1-	-4D- 600 VAC Supply Break 2HVC*CHL1A	er for 1	BKR VI	
2HVC*RE18	A - Division 1 Control B Ventilation Intake R Monitors	uilding I adiation	NON IL	
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NRC FORM 366A U.S.	NUCLEAR REGULATORY COMMISSION	APPROVED OMB NO. 3150-0104
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		YEAR SEQUENTIAL REVISION
tino Milo Point Unit 2		
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D Drovious Similar Events		
B. Previous Similar Evencs		
There have been two previous simi 35 and LER 88-20.	ilar events. Deta	ails can be found in LER 88-
The corrective action for LFR 8	8-20 corrected t	he cause of the electrical
disturbance and did not address	the DRMS system a	sensitivity issue.
•	-	
The circuit sensitivity to nois	e was the subject	t of a proplem Report (PR) of sufficient data and the
difficulties associated with tr	oubleshooting the	e equipment, no action was
taken on the PR.		~
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