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FACIL:50-410	Nine Mile Point Nuclear Station, Unit 2, Niagara Moha	05000410
AUTH.NAME	AUTHOR AFFILIATION	
CONWAY, J.T.	Niagara Mohawk Power Corp.	a
MUELLER, J.H.	Niagara Mohawk Power Corp.	R
RECIP.NAME	RECIPIENT AFFILIATION	_
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SUBJECT: LER 93-003-00:on 930709, Unit 2 operated outside of Tech Spec Surveillance Requirement 4.6.1.1 b from initial plant startup.Caused by inadequate technical review.Technical review process for procedures revised.W/930809 ltr.

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August 9, 1993 NMP88387

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

RE: Docket No. 50-410 LER 93-03

Gentlemen:

In accordance with 10 CFR 50.73 (a)(2)(i)(B), we are submitting LER 93-03, "Violation of Technical Specification Surveillance Requirement Due to an Inadequate Surveillance Procedure."

Very truly yours,

John H. Mueller Plant Manager - NMP2

JHM/JTP/lmc Attachment

xc: Mr. Thomas T. Martin, Regional Administrator, Region I Mr. Wayne L. Schmidt, Senior Resident Inspector

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NRC Form 366 (9-83)													U,S, NUC	LEAR R	EGULATO	RY COMM	ISSION
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LICENSEE EVENT REFORT (LER)																	
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Nine Mile Point Unit 2 0 5 0 0 4 1 0 1 0 F 0 7																	
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Due to an Inadequate Surveillance Procedure																	
EVENT DATE (5) LER NUMBER (6) REPORT DATE (7) OTHER FACILITIES INVOLVED (8)																	
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•	days as required by the Technical Specification Surveillance Requirement. These valves are																
required to be closed during accident conditions. At the time of this determination, the reactor mode switch was in the "RUN" position (Operational Condition 1) with the plant operating at																	
approximately 100 percent rated thermal power.																	
	The root cause of this Technical Specification Surveillance Requirement violation is inadequate									,							
technical review in preparing the original surveillance procedure. Contributing causes were																	
deficient engineering design basis documentation, specifying the valves required to be verified																	
close	closed, and inadequate control of revisions to the engineering document.																
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	LICENSEE EVENT REPORT (TEXT CONTINUATION	APPROVED OMB NO, 3150-0104 EXPIRES: 4/30/92 STIMATED 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.						
EXAMPLE AND A CONTRACT OF A CONT	FACILITY NAME (1)	DOCKET NUMBER (2)		PAGE (3)				
	Nine Mile Point Unit 2	0 5 0 0 0 4 1 0	YEAR SEQUENTIAL REVISION NUMBER 9 3 0 0 3 0 0					

I. DESCRIPTION OF EVENT

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On July 9, 1993, the Operations Department determined that Nine Mile Point Unit 2 (NMP2) had operated outside of Technical Specification Surveillance Requirement 4.6.1.1.b from initial plant startup in the Spring of 1987 until March 1993. Specifically, 11 manual vent, drain, and test valves on primary containment penetrations of the Residual Heat Removal System (RHS) and the Reactor Core Isolation Cooling System (ICS) were not verified to be closed at least once per 31 days as required by the Technical Specification Surveillance Requirement. These valves are required to be closed during accident conditions. At the time of this determination, the reactor mode switch was in the "RUN" position (Operational Condition 1) with the plant operating at approximately 100 percent rated thermal power.

Niagara Mohawk Power Corporation instituted a self-assessment review of the NMP2 10 CFR 50 Appendix J program to assure that compliance is maintained. During that review in December 1992, a discrepancy was identified between the valves listed in Nuclear Engineering Design Document M2-0001, Revision 3, "List of Primary Containment Penetrations Required to be Closed During Accident Conditions per Technical Specification Section 3/4.6.1.1.b," and Operations Surveillance Procedure N2-OSP-CNT-M001, Revision 3, "Primary Containment Penetration Verification Test." The following nine valves were included in the engineering document but not in the surveillance procedure: 2RHS*V317, 2RHS*V318, 2RHS*V405, 2RHS*V431, 2RHS*V266, 2RHS*V267, 2ICS*V17, 2ICS*V18, and 2ICS*V19. Additionally, valves 2RHS*V268 and 2RHS*V269 were not in either the engineering document M2-0001 or the surveillance procedure N2-OSP-CNT-M001. The engineering document serves as the basis document for the surveillance procedure. The surveillance procedure implements Technical Specification surveillance requirement 4.6.1.1.b, which states "Primary containment integrity shall be demonstrated at least once per 31 days by verifying that all primary containment penetrations** not capable of being closed by OPERABLE containment automatic isolation valves and required to be closed during accident conditions are closed by valves, blind flanges, or deactivated automatic valves secured in position, . . ."

A Deviation Event Report (DER) was written on January 27, 1993, to document and resolve this discrepancy. At that time, it was difficult to determine which document was correct. However, surveillance procedure N2-OSP-CNT-M001 was revised in March 1993 to include all 11 of the above listed valves because it was realized that they might be added to engineering document M2-0001 after complete evaluation of the noted discrepancy. The closed position of these valves was verified in March 1993.

Nuclear Engineering Design, Licensing, and Operations reviewed and subsequently revised the criteria for selection of valves to be included in engineering document M2-0001. Revision 4 of M2-0001 was approved June 1, 1993 and included all 11 of the above listed valves. Subsequently, the review of the reportability of this issue continued resulting in the conclusion, on July 9, that a violation of Technical Specifications surveillance requirements had occurred.

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LICENSEE EVENT REPORT 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 (PF30), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 2055, 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	YEAR SEQUENTIAL REVISION 913 0103 000 000	0] 3 of 0 7					

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

II. CAUSE OF EVENT

The root cause of this Technical Specification Surveillance Requirement violation is inadequate technical review in preparing the original surveillance procedure, N2-OSP-CNT-M001. This procedure was prepared in 1985, prior to initial plant startup, and did not include the 11 valves listed above. No engineering list was available during preparation of this procedure and the original criteria for determining which valves needed to be verified to satisfy Technical Specifications cannot be re-created at this time.

A contributing cause was an inadequate original engineering document M2-0001 (written in 1989) and its subsequent revisions, in that valves 2RHS*V268 and 2RHS*V269 were not included. Another contributing cause was inadequate control of revisions to engineering document M2-0001 in that the affected surveillance procedure was not triggered for revision when M2-0001 was revised.

III. ANALYSIS OF EVENT

This condition is reportable per 10 CFR 50.73 (a)(2)(i)(B), "any operation or condition prohibited by the plant's Technical Specifications."

The closed position of the 11 valves has been verified, since initial plant startup, after completion of Local Leak Rate Tests (LLRTs), during an Integrated Leak Rate Test (ILRT), and during system valve line-ups following the refueling outages. LLRTs have been performed on the isolation valves in the RHS heat exchanger vent lines and the ICS turbine exhaust line three times since initial plant startup. The restoration to normal section of the procedure requires that valves 2RHS*V317, 2RHS*V318, 2RHS*V266, 2RHS*V267, 2RHS*V268, 2RHS*V269, 2ICS*V17, 2ICS*V18, and 2ICS*V19 have been verified closed and the lines capped. An ILRT was performed on the primary containment in January 1991 and the "as found" and "as left" values were well within the acceptance criteria. The restoration to normal section of the ILRT procedure requires that valve 2RHS*V405 be closed and valve 2RHS*V431 be closed and capped. Further, following both of NMP2's refueling outages, the closed position of the 11 valves was verified during system valve line-ups.

Also, the configuration of the valves on the RHS heat exchanger vent lines and the ICS turbine exhaust line is designed to prevent the release of radioactive material from the primary containment in the event of an accident. The RHS heat exchanger vent lines penetrate the primary containment and ultimately discharge to the suppression pool, (see Figure 1a and 1b for a simplified diagram). The manual vent, drain, and test valves are sets of double valves connected in series on piping between the primary containment and the outboard containment isolation valve. The isolation valves are normally closed, remote, motor operated valves with position indication in the Control Room. Additionally, the vent, drain, and test lines are capped.

The ICS turbine exhaust line penetrates the primary containment and discharges to the suppression pool, (see Figure 2 for a simplified diagram). The manual test valves are located on piping between two automatic isolation valves on the vacuum breaker line. The automatic

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	LICENSEE EVENT REPORT (LER) TEXT CONTINUATION						APPROVED OMB NO. 3150-0104 EXPIRES: 4/30/92 STIMATED 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 (P530), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0104), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503,										VARD ORDS LEAR ID TO FFICE					
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Ì	III. ANALYSIS OF EVENT (cont.)										,											
	isolation valves are normally open, re Control Room. The test lines are eith									lve	s١	vitł	ף ר	osi	tior	n ir	ıdic	atio	on i	n th	e	

Therefore, based on verification of the closed position of the valves, and the configuration, as described above, primary containment integrity was maintained when required and, in the event, of an accident, there would have been no adverse consequences to the health and safety of the general public or plant personnel.

IV. CORRECTIVE ACTIONS

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Corrective actions taken as a result of this event are:

- 1. The technical review process for procedures was revised in October 1992 to improve the technical accuracy of surveillance procedures. The last periodic review for surveillance procedure N2-OSP-CNT-M001 was in 1991.
- 2. Surveillance procedure N2-OSP-CNT-M001 was revised in March 1993 (prior to determining that a Technical Specification surveillance requirement violation existed) to include all 11 of the above listed valves, because it was realized that they might be added to engineering document M2-0001 after complete evaluation of the discrepancy identified in the self-assessment review in December 1992. The closed position of the valves was verified in March 1993.
- 3. Revision 4 of M2-0001 was approved in June 1993. All 11 of the above listed valves are now included in M2-0001. All valves listed in M2-0001 are either verified closed by surveillance procedure N2-OSP-CNT-M001 or their closed position is controlled administratively in satisfaction of the technical specification requirements.
- 4. A sample of similar surveillance procedures associated with engineering lists were reviewed. Surveillance procedures N2-OSP-CNT-CS001, "Primary Containment Penetration Cold Shutdown Valve Line-up Verification Test," and N2-OSP-CNT-M003, "Reactor Building Integrity Verification Test," were compared to their respective engineering lists. No violations of Technical Specifications were found. Three discrepancies were identified which will be resolved by an appropriate revision to the engineering list.
- 5. A Deviation Event Report (DER) has been initiated to determine the cause of the failure to maintain Technical Specifications surveillance procedures in agreement with their respective engineering lists.
- 6. The Engineering Department will develop a schedule for performing a review of the engineering controlled lists identified in procedure NIP-DES-04, "List of Controlled Lists," for technical accuracy. This schedule will be presented to the Station Operations Review Committee for approval.

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NRC FORM 366A	U.S. N	UCLEAR REGULATORY COMMISSION	APPROVED OMB NO. 3150-0104						
(6-89)		LER)	EXPIRES: 4/30/92 STIMATED BURDEN PER RESPONSE TO COMPLY WTH THIS INFORMATION COLLECTION REQUEST: 500 HRS. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE RECORDS AND REPORTS MANAGEMENT BRANCH (P-330), 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)						
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	CORRECTIVE ACTIONS (cont.)								
7.	A DER has been written to addre procedures upon revision of engi	•	ating affected surveillance						
8. A DER has been written to address the lack of timely resolution of the initial discrepancy identified in the self-assessment review in December 1992. The DER will include a root cause evaluation and any necessary corrective actions.									
<u>v.</u>	ADDITIONAL INFORMATION		x						
Α.	Failed components: none	9.							
В.	Previous similar events:								
	technical review of procedures: 90-14, 90-11, 90-10, 90-07, 89 corrective actions from these LE prevented this LER. A corrective Violation as a Result of a Failure to Personnel Error," addressed a Specifically, technical and period	LERs 92-15, 92-12, 9 9-20, 89-18, 89-15, 88 Rs were specific to the e action from LER 92-1 to Test Valves in Acc n improvement in the to dic reviewers are requir are satisfied. Howeve	8-16, and 87-28. Generally, the eir events and thus would not have 2, "Technical Specification ordance with ASME Section XI due technical review of procedures. red to utilize source documents to er, these corrective actions had not						
	engineering list was not written Technical Specifications required	ical Specifications," ha and proper controls we d surveillance was impl	s a similar cause in that a proper						
C.	Identification of components ref	erred to in this LER:							
	COMPONENT	IEEE:803 EIIS FUNCTI	ON IEEE 805 SYSTEM ID						
	Primary Containment	NA	· NH						
	Penetration	PEN	NH						
	RHR System	N/A	BRO						
	Reactor Core Isolation Cooling System	N/A	BN						
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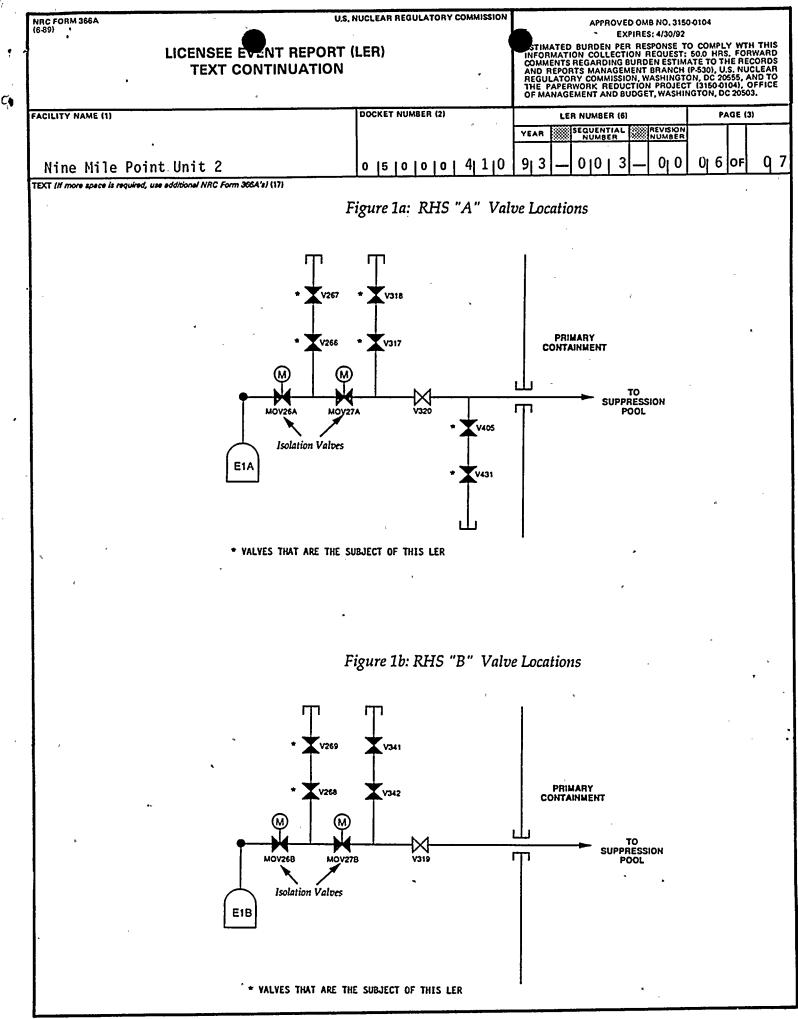
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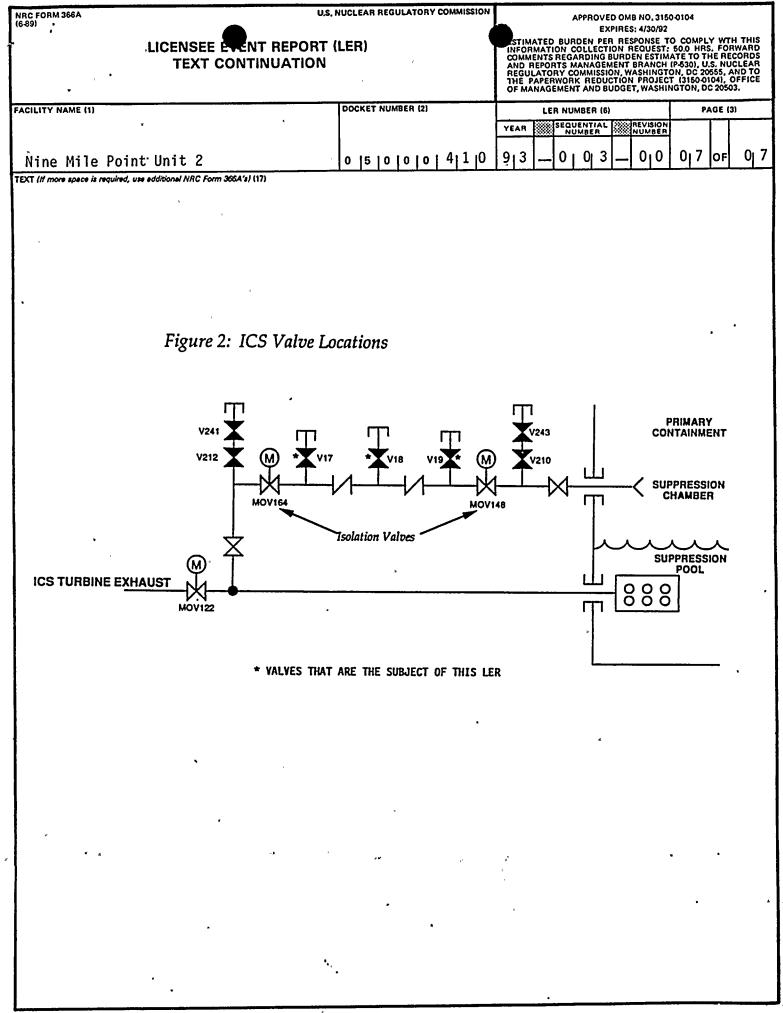
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