

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 8709010069 DOC. DATE: 87/08/24 NOTARIZED: NO DOCKET #
 FACIL: 50-410 Nine Mile Point Nuclear Station, Unit 2, Niagara Moha 05000410
 AUTH. NAME AUTHOR AFFILIATION
 RANDALL, R. G. Niagara Mohawk Power Corp.
 LEMPGES, T. E. Niagara Mohawk Power Corp.
 RECIP. NAME RECIPIENT AFFILIATION

SUBJECT: LER 87-044-00: on 870725, svc water supply header discharge water temp exceeded 77 F prompting limiting condition for operation to be entered. Caused by overly conservative Tech Spec limits. Plant shutdown & amend requested. W/870824 ltr.

DISTRIBUTION CODE: IE22D COPIES RECEIVED: LTR 1 ENCL 1 SIZE: 5
 TITLE: 50.73 Licensee Event Report (LER), Incident Rpt, etc.

NOTES: 21

05000410

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LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) Nine Mile Point Unit 2	DOCKET NUMBER (2) 0 5 0 0 0 410	PAGE (3) 1 OF 03
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TITLE (4) **Plant Shutdown to Comply with Technical Specification Limit on Service Water Temperature**

EVENT DATE (5)			LER NUMBER (6)			REPORT DATE (7)			OTHER FACILITIES INVOLVED (8)		
MONTH	DAY	YEAR	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	MONTH	DAY	YEAR	FACILITY NAMES		DOCKET NUMBER(S)
07	25	87	87	044	00	08	24	87	N/A		0 5 0 0 0
									N/A		0 5 0 0 0

OPERATING MODE (9) 2	THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §. (Check one or more of the following) (11)									
POWER LEVEL (10) 004	<input type="checkbox"/> 20.402(b)	<input type="checkbox"/> 20.406(c)	<input type="checkbox"/> 50.73(a)(2)(iv)	<input type="checkbox"/> 73.71(b)						
	<input type="checkbox"/> 20.406(a)(1)(i)	<input type="checkbox"/> 50.36(c)(1)	<input type="checkbox"/> 50.73(a)(2)(v)	<input type="checkbox"/> 73.71(c)						
	<input type="checkbox"/> 20.406(a)(1)(ii)	<input type="checkbox"/> 50.36(c)(2)	<input type="checkbox"/> 50.73(a)(2)(vi)	OTHER (Specify in Abstract below and in Text, NRC Form 366A)						
	<input type="checkbox"/> 20.406(a)(1)(iii)	<input checked="" type="checkbox"/> 50.73(a)(2)(i)	<input type="checkbox"/> 50.73(a)(2)(vii)(A)							
	<input type="checkbox"/> 20.406(a)(1)(iv)	<input type="checkbox"/> 50.73(a)(2)(ii)	<input type="checkbox"/> 50.73(a)(2)(vii)(B)							
	<input type="checkbox"/> 20.406(a)(1)(v)	<input type="checkbox"/> 50.73(a)(2)(iii)	<input type="checkbox"/> 50.73(a)(2)(ix)							

LICENSEE CONTACT FOR THIS LER (12)

NAME Robert G. Randall, Supervisor Technical Support	TELEPHONE NUMBER
	AREA CODE 315 349-2445

COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)

CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRC	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRC

SUPPLEMENTAL REPORT EXPECTED (14)

<input type="checkbox"/> YES (If yes, complete EXPECTED SUBMISSION DATE) <input checked="" type="checkbox"/> NO	EXPECTED SUBMISSION DATE (15)	MONTH	DAY	YEAR
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ABSTRACT (Limit to 1400 spaces i.e. approximately fifteen single space typewritten lines) (16)

On July 25, 1987 at 2352 hours, Nine Mile Point Unit 2 (NMP2) entered a Limiting Condition for Operation (LCO) per plant Technical Specification 3.7.1.1. Technical Specification 3.7.1.1 requires that if the service water supply header discharge water temperature continuously exceeds 77°F for any 8 hour period, within 1 hour initiate action to be in at least hot shutdown within the next 12 hours. Service water supply header discharge water temperature exceeded 77°F at 1552 hours earlier in the day and remained above 77°F, prompting the LCO to be initiated. At the time of the event the plant was at approximately 3.2% power with the reactor mode switch in "STARTUP". Reactor coolant pressure and temperature were approximately 920 pounds per square inch gauge (psig) and 530°F, respectively.

The root cause of the event has been determined to be that the analyses which established the Technical Specification allowable limit on service water discharge header temperature were too conservative.

Immediate corrective actions were for the operators to initiate a plant shutdown in compliance with the Technical Specifications. An application for amendment to the Technical Specifications has been submitted to increase the allowable service water discharge header temperature from 77°F to 81°F.

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		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER		
		87	044	00	02	OF 03

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

I. DESCRIPTION OF EVENT

On July 25, 1987 at 2352 hours, Nine Mile Point Unit 2 (NMP2) entered a Limiting Condition for Operation (LCO) per plant Technical Specification 3.7.1.1. Technical Specification 3.7.1.1 requires that if the service water supply header discharge water temperature continuously exceeds 77°F for any 8 hour period, within 1 hour initiate action to be in at least hot shutdown within the next 12 hours and in cold shutdown within the following 24 hours. Service water supply header discharge water temperature exceeded 77°F at 1552 hours earlier in the day and remained above 77°F, prompting the LCO to be initiated at 2352 hours. At the time of the event the plant was at approximately 3.2% power with the reactor mode switch in "STARTUP". Reactor coolant pressure and temperature were approximately 920 pounds per square inch gauge (psig) and 530°F, respectively.

At 0048 hours on July 26, within the allowed 1 hour time limit, actions were initiated to place the plant in hot shutdown per operating procedure N2-OP-101C, "Plant Shutdown". To comply with the Technical Specification requirement to be in hot shutdown within the following 12 hours, the reactor mode switch was placed in the "SHUTDOWN" position at 1239 hours. Placing the mode switch in the "SHUTDOWN" position initiated a scram, since all control rods had not been fully inserted. At the time of the scram the reactor was at 0% power, with the reactor coolant pressure and temperature approximately 81 psig and 323°F, respectively.

At 1733 hours, reactor coolant temperature was lowered to 199°F placing the plant in cold shutdown to complete compliance with the Technical Specification.

The plant resumed power operation on July 27, when the service water supply header discharge water temperature decreased below 77°F.

There were no components or systems which were inoperable and/or out of service which contributed to the event. No plant system or component failures resulted from the event.

II. CAUSE OF EVENT

The root cause of the event has been determined to be that the analyses which established the Technical Specification allowable limit on service water supply header discharge water temperature were too conservative. Although the plant may be safely operated with the service water supply header discharge temperature greater than 77°F, compliance with the Technical Specification allowable limit mandated the plant shutdown.

With the exception of 1987, the average daily service water discharge header temperature has exceeded 76°F only twice since 1978. However, due to an unusually long heat wave raising the temperature of Lake Ontario, the service water supply source, the service water supply header discharge water temperature exceeded 76°F. Therefore, while the allowable limit was conservatively set at 77°F, the likelihood of the service water supply header discharge water temperature exceeding 77°F was low.



LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

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		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
		87	044	00	03	OF	03

TEXT (If more space is required, use additional NRC Form 368A's) (17)

III. ANALYSIS OF EVENT

There were no adverse safety consequences as a result of this event. Shutdown of the plant was performed in compliance with the plant Technical Specification for high service water temperature.

The scram that occurred as a result of placing the reactor mode switch in "SHUTDOWN" is not reportable in itself. The scram occurred as the result of a preplanned sequence of reactor operation to comply with the plant's Technical Specifications and therefore, is not reportable.

IV. CORRECTIVE ACTIONS

Immediate corrective actions were for the operators to initiate a plant shutdown in compliance with the Technical Specifications.

Additional corrective action is in the form of a request to amend to the plant Technical Specifications. An application for amendment to the Technical Specifications was submitted on August 3, 1987 to increase the allowable service water discharge header temperature from 77°F to 81°F.

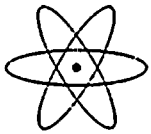
V. ADDITIONAL INFORMATION

Identification of Components Referred to in this LER

Component	IEEE 803 EIIS Funct	IEEE 805 System ID
Essential Service Water System	N/A	BI

There have been no previous similar events at NMP2.





NIAGARA MOHAWK POWER CORPORATION

NIAGARA  MOHAWK

301 PLAINFIELD ROAD
SYRACUSE, NY 13212

THOMAS E. LEMPGES
VICE PRESIDENT—NUCLEAR GENERATION

August 24, 1987

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

RE: Docket No. 50-410
LER 87-44

Gentlemen:

In accordance with 10 CFR 50.73, we hereby submit the following Licensee Event Report:

LER 87-44 Is being submitted in accordance with 10 CFR 50.73
(a) (2) (i) (A), "The completion of any nuclear plant
shutdown required by the plant's Technical Specifications."

A 10 CFR 50.72 (b) (2) (i) report was made at 0049 hours on July 26, 1987
and a 10 CFR 50.72 (b) (2) (ii) report was made at 1322 hours on July 26, 1987.

This report was completed in the format designated in NUREG-1022,
Supplement No. 2, dated September 1985.

Very truly yours,

Thomas E. Lempges
Vice President
Nuclear Generation

TEL/JTD/mjd

Attachments

cc: Regional Administrator, Region 1
Sr. Resident Inspector, W. A. Cook

IE22
7/1



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