

CATEGORY 1

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR:9708010079 DOC.DATE: 97/07/23 NOTARIZED: NO DOCKET #
 FACIL:50-410 Nine Mile Point Nuclear Station, Unit 2, Niagara Moha 05000410
 AUTH.NAME AUTHOR AFFILIATION
 PISANO,L.E. Niagara Mohawk Power Corp.
 DAHLBERG,K.A. Niagara Mohawk Power Corp.
 RECIP.NAME RECIPIENT AFFILIATION

SUBJECT: LER 97-005-01:on 970623,discovered that HPCS sys was inoperable due to failed unit cooler.Caused by degradation of Custom Termination Module.Module was replaced & sys were declared operable.W/970723 ltr.

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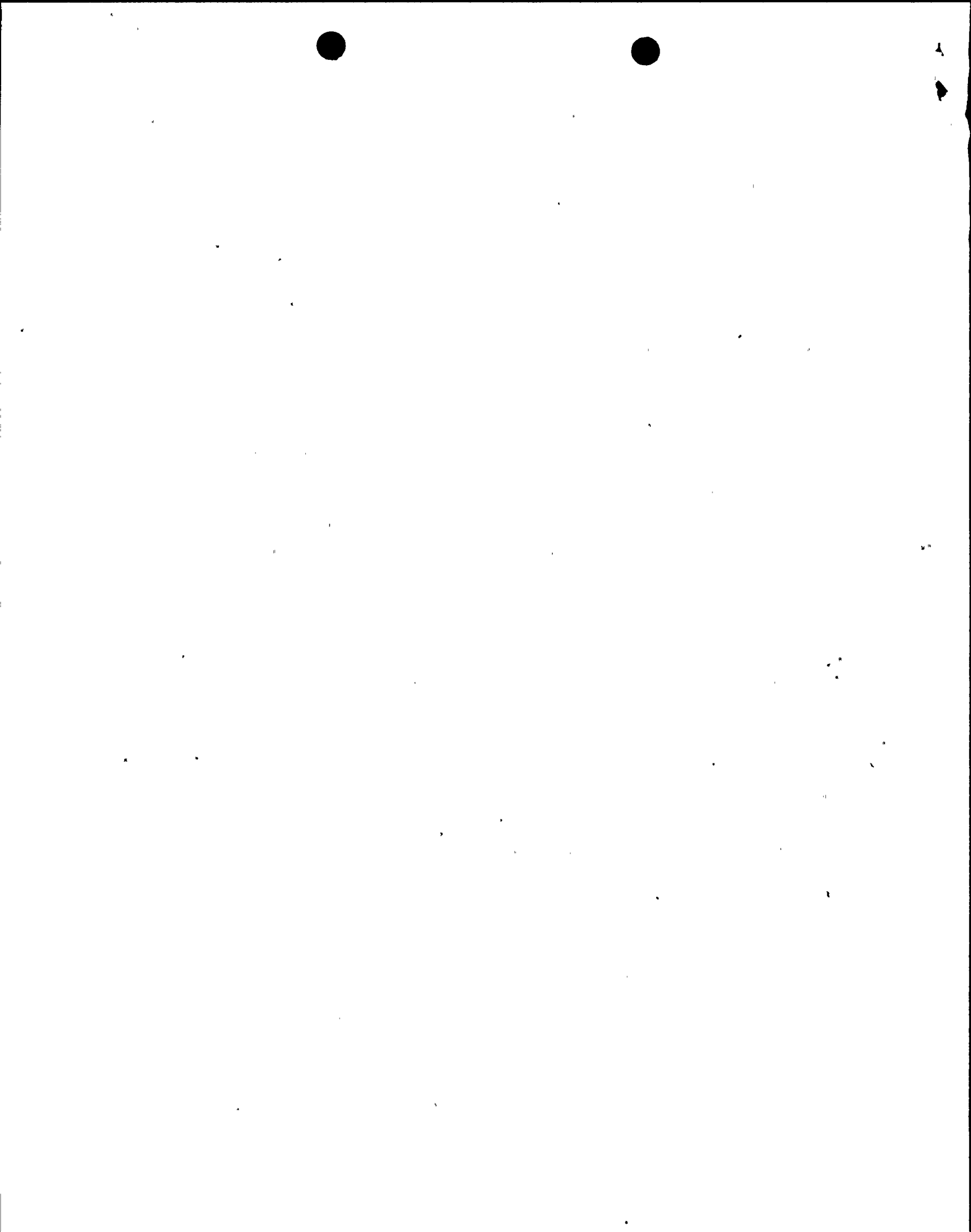
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NIAGARA MOHAWK

GENERATION
BUSINESS GROUP

NINE MILE POINT NUCLEAR STATION/LAKE ROAD, P.O. BOX 63, LYCOMING, NEW YORK 13093

July 23, 1997
NMP2L 1717

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

RE: Docket No. 50-410
LER 97-05

Gentlemen:

In accordance with 10CFR50.73 (a)(2)(v), we are submitting LER 97-05, "High Pressure Core Spray System Inoperable Due to Failed Unit Cooler".

Very truly yours,

Kim A. Dahlberg
Plant Manager - NMP2

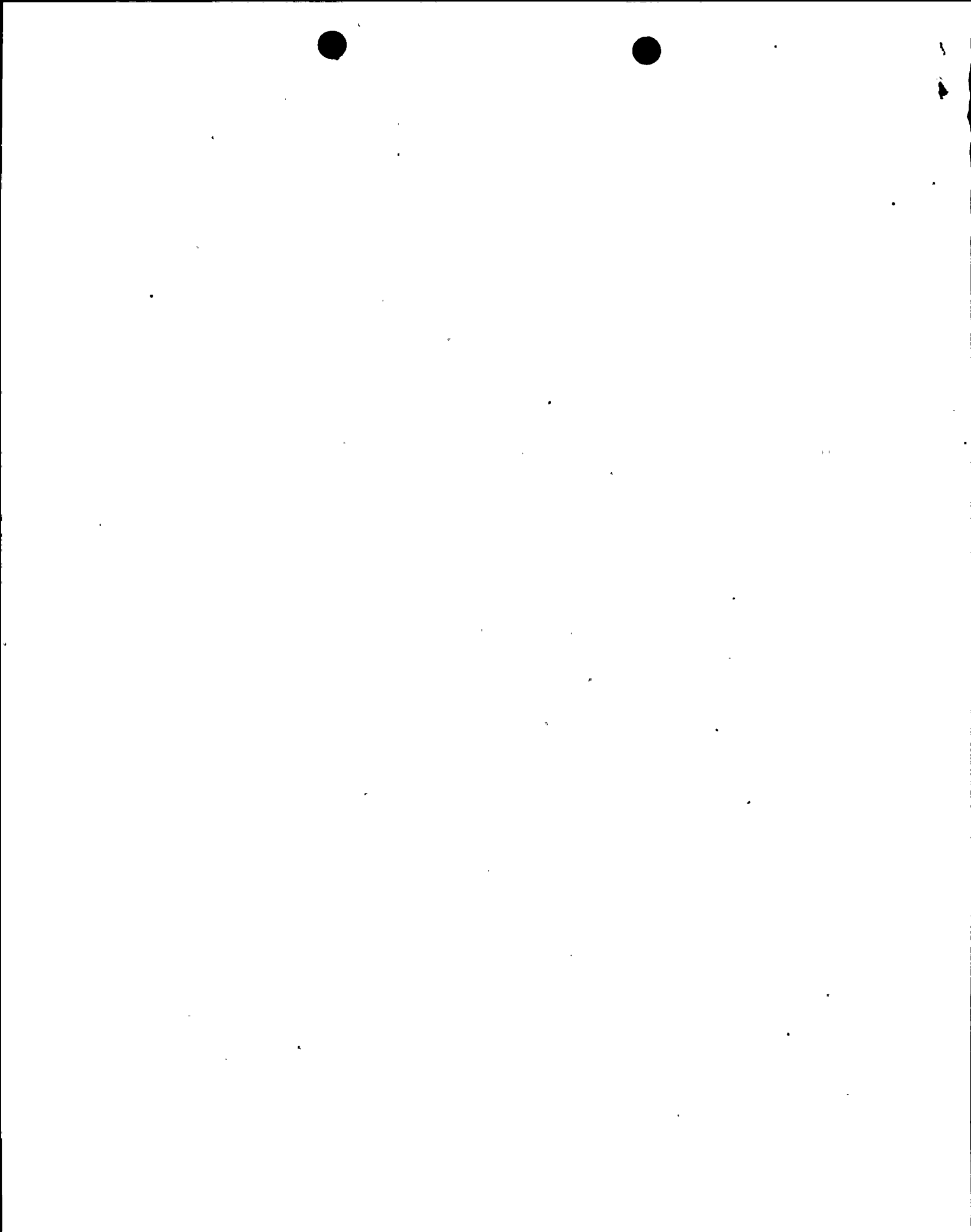
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xc: Mr. H. J. Miller, Regional Administrator, Region I
Mr. B. S. Norris, Senior Resident Inspector
Records Management

IE221



9708010079 970723
PDR ADDCK 05000410
S PDR



LICENSEE EVENT REPORT (LER)

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH 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)

Nine Mile Point Unit 2

DOCKET NUMBER (2)

05000410

PAGE (3)

1 OF 4

TITLE (4)

High Pressure Core Spray System Inoperable due to Failed Unit Cooler

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)
06	23	97	97	005	01	07	23	97	N/A	05000
									N/A	05000

OPERATING MODE (9)

1

THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more of the following) (11)

POWER LEVEL (10) 95	<input type="checkbox"/> 20.402(b)	<input type="checkbox"/> 20.405(c)	<input type="checkbox"/> 50.73(a)(2)(iv)	<input type="checkbox"/> 73.71(b)
	<input type="checkbox"/> 20.405(a)(1)(i)	<input type="checkbox"/> 50.36(c)(1)	<input checked="" type="checkbox"/> 50.73(a)(2)(v)	<input type="checkbox"/> 73.71(c)
	<input type="checkbox"/> 20.405(a)(1)(ii)	<input type="checkbox"/> 50.36(c)(2)	<input type="checkbox"/> 50.73(a)(2)(vii)	<input type="checkbox"/> OTHER
	<input type="checkbox"/> 20.405(a)(1)(iii)	<input type="checkbox"/> 50.73(a)(2)(i)	<input type="checkbox"/> 50.73(a)(2)(viii)(A)	<i>(Specify in Abstract below and in Text, NRC Form 366A)</i>
	<input type="checkbox"/> 20.405(a)(1)(iv)	<input type="checkbox"/> 50.73(a)(2)(ii)	<input type="checkbox"/> 50.73(a)(2)(viii)(B)	
	<input type="checkbox"/> 20.405(a)(1)(v)	<input type="checkbox"/> 50.73(a)(2)(iii)	<input type="checkbox"/> 50.73(a)(2)(x)	

LICENSEE CONTACT FOR THIS LER (12)

NAME

L. E. Pisano - Maintenance Manager NMP2

TELEPHONE NUMBER

(315) 349-2073

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

CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPRDS	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPRDS
X	VI	CNV	F180	N					

SUPPLEMENTAL REPORT EXPECTED (14)

 YES (If yes, complete EXPECTED SUBMISSION DATE) NO

EXPECTED SUBMISSION DATE (15)

MONTH

01

DAY

30

YEAR

98

ABSTRACT (Limit to 1400 spaces, i.e., approximately fifteen single space typewritten lines) (16)

On June 23, 1997, at approximately 1215 hours, while operating at approximately 95 percent reactor power, the Nine Mile Point Unit 2 (NMP2) Division III switchgear room unit cooler failed, which per station procedures rendered the Division III switchgear and High Pressure Core Spray (HPCS) system inoperable.

The cause of the unit cooler failure was degradation of the Custom Termination Module (CTM). A failure analysis is being performed to determine the cause of the CTM degradation.

The CTM was replaced, successfully post-maintenance tested and the systems were declared operable.



10
11

LICENSEE EVENT REPORT (LER)
TEXT CONTINUATION

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST: 30.0 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 (5)			PAGE (3)
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	
Nine Mile Point Unit 2	05000410	97	- 05	- 00	02 OF 04

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

I. DESCRIPTION OF EVENT

On June 23, 1997, while operating at approximately 95 percent reactor power, Niagara Mohawk determined that the unit cooler (2HVC*UC102) in the Division III switchgear room failed. Based upon station administrative procedures, when the unit cooler is inoperable, the Division III switchgear is declared inoperable. Technical Specification 3.8.3.1 (Onsite Power Distribution System) action statement a.2 requires entering Technical Specification 3.5.1 (ECCS - Operating) action statement c.1. Therefore, the High Pressure Core Spray System (HPCS) was declared inoperable at 1215 hours on June 23, 1997.

Troubleshooting activities commenced and it was determined that the test input connector was degraded in the Custom Termination Module (CTM) (resistance to voltage converter). The CTM was replaced and a post-maintenance test was completed. The unit cooler, Division III switchgear, and HPCS were then declared operable at 1530 hours on June 23, 1997.

II. CAUSE OF EVENT

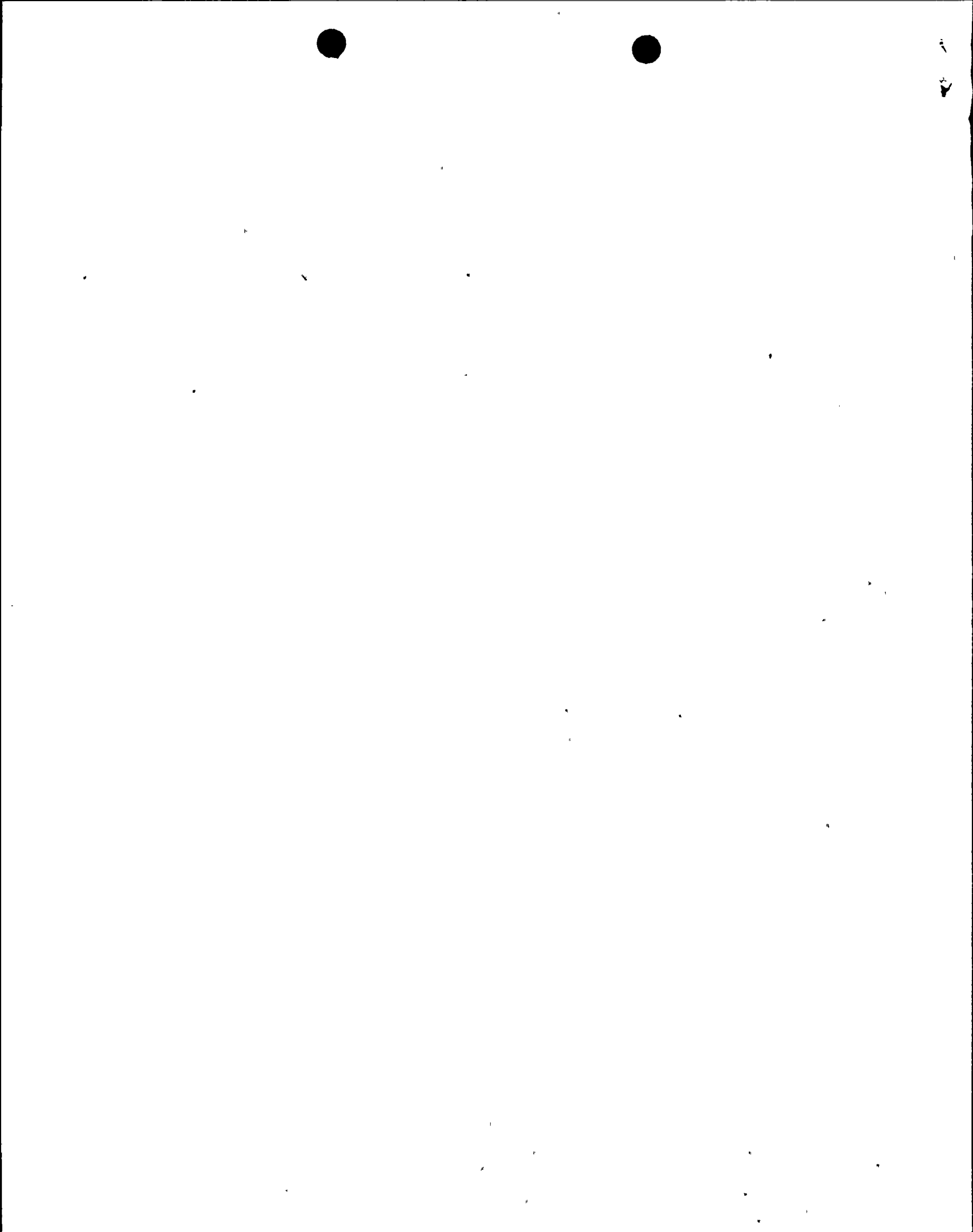
The cause of this event has been determined to be the degradation of the CTM. The CTM is a custom made component. Review of maintenance history on this component in other applications, did not reveal any common mode failures. A failure analysis will be performed to determine the cause of the CTM degradation.

III. ANALYSIS OF EVENT

This event is considered reportable under 10CFR50.73 (a)(2)(v), "any event or condition that alone could have prevented the fulfillment of the safety function of structures or systems that are needed to: (D) mitigate the consequences of an accident." The HPCS is a single train system.

The Emergency Core Cooling Systems are designed to provide core cooling for postulated Loss of Coolant Accidents (LOCAs) caused by rupture in any Reactor Coolant Pressure Boundary. The HPCS system is designed to maintain reactor vessel inventory following small breaks which do not depressurize the reactor vessel. The HPCS system consists of a single motor driven pump with associated piping, valves and instruments.

NMPC station procedures require that the switchgear be declared inoperable when the switchgear unit cooler becomes inoperable since adequate room cooling capability cannot be demonstrated. Therefore, Division III



LICENSEE EVENT REPORT (LER)
TEXT CONTINUATIONESTIMATED BURDEN PER RESPONSE TO COMPLY WITH 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.

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		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	
Nine Mile Point Unit 2	05000410	97	05	00	03 OF 04

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

III. ANALYSIS OF EVENT (cont'd)

switchgear were declared inoperable in accordance with Technical Specification 3.8.3.1. However, the switchgear and HPCS were maintained available for use to mitigate the consequences of an accident, since there were no failed components in the fluid or electrical system.

If the HPCS system had failed, adequate core cooling would have been assured by operability of the: (1) Reactor Core Isolation Cooling (RCIC) system and (2) Division I and II Low Pressure systems and the Automatic Depressurization System (ADS). Both of these alternatives were available during this event.

Based upon the preceding, the condition did not jeopardize the health and safety of the general public or site personnel, nor did it degrade the ability to safely operate or shutdown the plant.

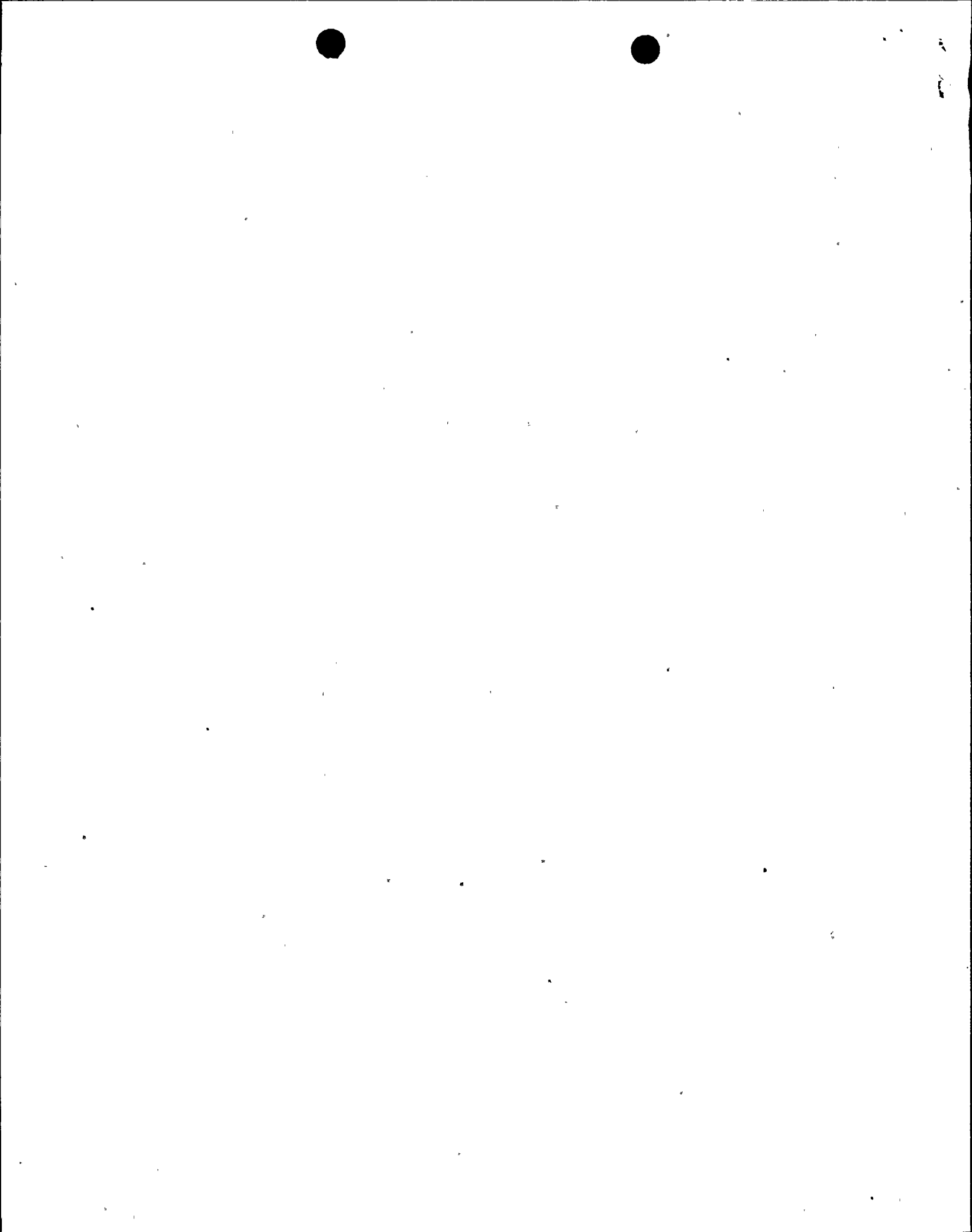
IV. CORRECTIVE ACTIONS

- After entering the appropriate Technical Specification action statement and declaring HPCS inoperable, the CTM was replaced and successfully post-maintenance tested. HPCS was declared operable and the Technical Specification action statements were then exited.
- A failure analysis will be performed by January 30, 1998 to determine the cause of the CTM degradation.
- As an interim measure, this event will be reviewed by the NMP2 Instrument and Control (I&C) group by August 29, 1997.

V. ADDITIONAL INFORMATION**A. Failed components:**

Component description:	Custom Termination Module (resistance to voltage converter)
Manufacturer:	Foxboro
Model number:	N-2AX+P
Serial number:	5308054

B. Previous similar events: none.



LICENSEE EVENT REPORT (LER)
TEXT CONTINUATION

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		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER		
Nine Mile Point Unit 2	05000410	97	05	00	04 OF 04	

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

V. ADDITIONAL INFORMATION

C. Identification of components referred to in this LER:

COMPONENT	IEEE 803 EHS FUNCTION	IEEE 805 SYSTEM ID
CTM	CNV	VI
Unit Cooler	CLR	VI

