

# ACCELERATED DOCUMENT DISTRIBUTION SYSTEM

## REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 9309030247      DOC. DATE: 93/08/27      NOTARIZED: NO      DOCKET # 05000410  
 FACIL: 50-410 Nine Mile Point Nuclear Station, Unit 2, Niagara Moho  
 AUTH. NAME: MUELLER, J.H.      AUTHOR AFFILIATION: Niagara Mohawk Power Corp.  
 RECIP. NAME:      RECIPIENT AFFILIATION: Document Control Branch (Document Control Desk)

SUBJECT: Special Rept: on 930810 - Stack Gaseous Effluent Monitoring Sys noble gas station failed source check & declared inoperable. Caused by miscommunication process between MCA & central computer sys. Coaxial connections replaced.

DISTRIBUTION CODE: IE22D      COPIES RECEIVED: LTR 1 ENCL 0 SIZE: 2  
 TITLE: 50.73/50.9 Licensee Event Report (LER), Incident Rpt, etc.

NOTES:

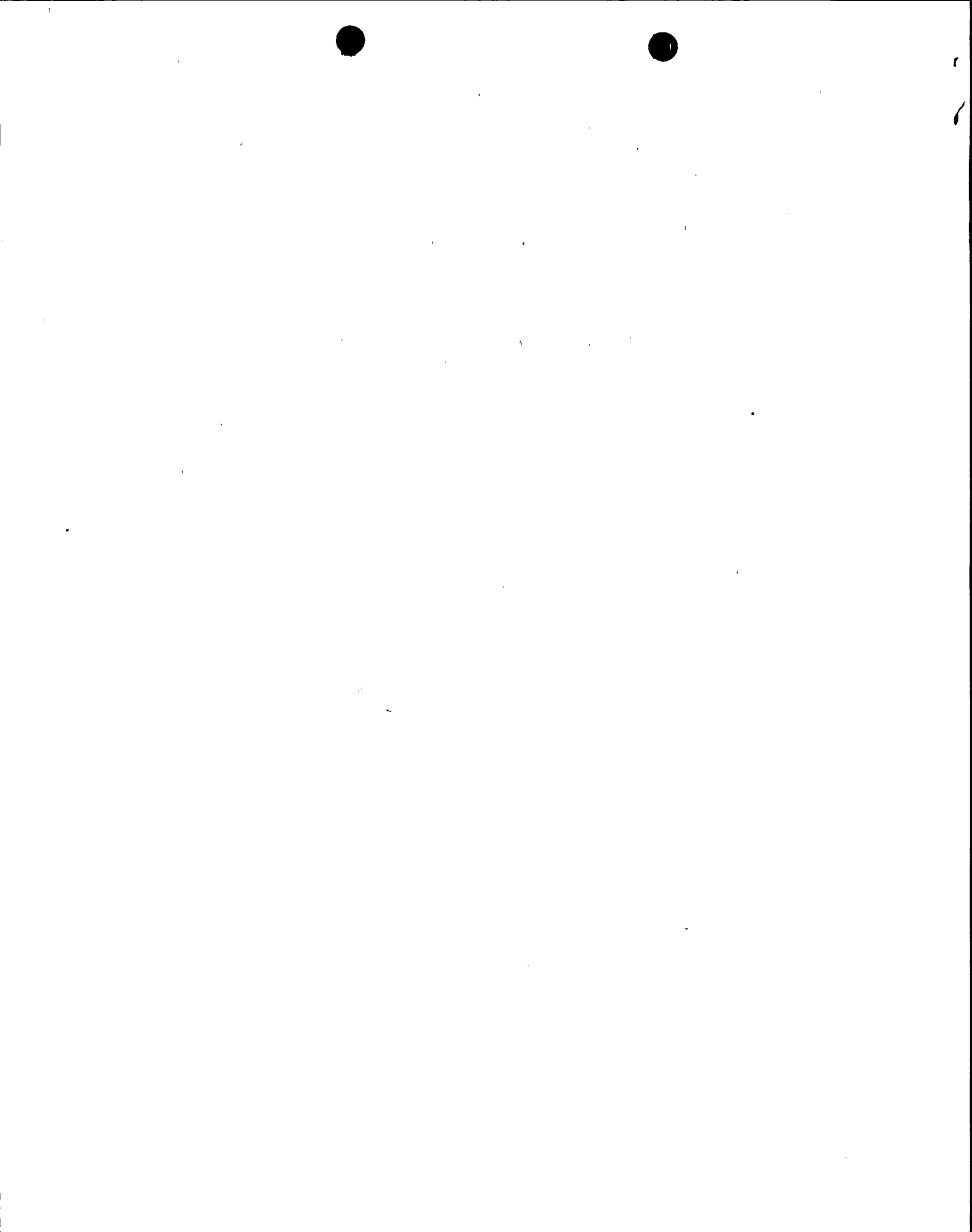
	RECIPIENT		COPIES			RECIPIENT		COPIES		
	ID	CODE/NAME	LTR	ENCL		ID	CODE/NAME	LTR	ENCL	
	PDI-1	LA	1	1		PDI-1	PD	1	1	
	MENNING,	J	1	1						
INTERNAL:	ACNW		2	2		ACRS		2	2	
	AEOD/DOA		1	1		AEOD/DSP/TPAB		1	1	
	AEOD/ROAB/DSP		2	2		NRR/DE/EELB		1	1	
	NRR/DE/EMEB		1	1		NRR/DORS/OEAB		1	1	
	NRR/DRCH/HHFB		1	1		NRR/DRCH/HICB		1	1	
	NRR/DRCH/HOLB		1	1		NRR/DRIL/RPEB		1	1	
	NRR/DRSS/PRPB		2	2		NRR/DSSA/SPLB		1	1	
	NRR/DSSA/SRXB		1	1		<u>REG FILE</u>	02	1	1	
	RES/DSIR/EIB		1	1		RGNI FILE	01	1	1	
EXTERNAL:	EG&G BRYCE,	J.H	2	2		L ST LOBBY WARD		1	1	
	NRC PDR		1	1		NSIC MURPHY, G.A		1	1	
	NSIC POORE,	W.	1	1		NUDOCS FULL TXT		1	1	

NOTE TO ALL "RIDS" RECIPIENTS:

PLEASE HELP US TO REDUCE WASTE! CONTACT THE DOCUMENT CONTROL DESK, ROOM P1-37 (EXT. 504-2065) TO ELIMINATE YOUR NAME FROM DISTRIBUTION LISTS FOR DOCUMENTS YOU DON'T NEED!

TOTAL NUMBER OF COPIES REQUIRED: LTR 32 ENCL ~~32~~

IA2



**NIAGARA  
MOHAWK**

NINE MILE POINT—UNIT 2/P.O. BOX 63, LYCOMING, NY 13093

John H. Mueller  
Plant Manager-Unit 2  
Nuclear Generation

August 27, 1993  
NMP88392

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

RE: Nine Mile Point Unit 2  
Docket No. 50-410  
NPF-69

**Subject: SPECIAL REPORT**

Gentlemen:

In accordance with Nine Mile Point Unit 2 (NMP2) Technical Specification (T.S.) Table 3.3.7.10-1, "Radioactive Gaseous Effluent Monitoring Instrumentation," ACTION Statement 139-b, Niagara Mohawk Power Corporation is submitting the following Special Report concerning the inoperability of the Stack Gaseous Effluent Monitoring System (Stack GEMS).

Event Description

On August 10, 1993, at 12:20 p.m., with the reactor mode switch in the "RUN" position (Operational Condition 1), and the plant operating at approximately 100 percent rated thermal power, the Stack GEMS noble gas station failed its source check and was declared inoperable. A 12 hour gas grab sample program was implemented at the time the Stack GEMS noble gas station was declared inoperable as required by T.S. Table 3.3.7.10-1, ACTION Statement 139-a.

During the performance of surveillance procedure N2-CSP-RMS-D313, "Daily GEMS Noble Gas Source Check," on the Stack GEMS noble gas station, the check source response was found to be high and out of specification. The Stack GEMS noble gas station was declared inoperable and work orders were written to troubleshoot the problem. On August 13, 1993, at 12:20 p.m., during troubleshooting, the Stack GEMS noble gas station was inoperable for 72 hours, which requires this Special Report in accordance with Technical Specifications.

During the troubleshooting process, several defects were identified in the detector circuit which could have introduced noise into the detector circuit, resulting in check source failure. Following correction of these defects, the noble gas station again would not pass its source check.

Testing of the multi-channel analyzer (MCA) functions indicated that the spectrum analyzer and detector circuits were functioning properly and that problems were occurring in the communication process between the MCA and central computer system. To correct the computer communications problem, two computer interface cards were replaced. Following replacement of these components, the Stack GEMS noble gas station passed the source check response test.

9309030247 930827  
PDR ADDCK 05000410  
S PDR

IF22  
1/0



After repair work was completed, the Stack GEMS noble gas station was left in operation for approximately 36 hours for testing prior to declaring the system operable. The Stack GEMS noble gas station was returned to operable status at 3:55 p.m. on August 18, 1993.

Cause of Event

The cause of this event was a problem in the communication process between the MCA and central computer system. The cause of the communication problem was a failed component on the MCA high speed serial interface card. This card has been sent to the vendor to identify the failed component and to do a failure analysis.


Corrective Actions

The following corrective actions have been taken:

1. Several coaxial connections were replaced in the detector circuit to eliminate the possibility of introducing noise into the circuit.
2. The detector preamplifier was replaced. The preamplifier showed some evidence of arcing on the high voltage terminals.
3. The PDP 11/44 computer serial interface card was replaced.
4. The MCA high speed serial interface card was replaced. The vendor will do a failure analysis of this card.

Following completion of these corrective actions, a series of six (6) reports were produced and found to be acceptable. The Stack noble gas station was allowed to collect data for 12 hours and an acceptable report was generated on August 18, 1993, at 2:47 a.m. Report acquisition time was then shortened to four (4) hour intervals to ensure continued production of acceptable noble gas reports. All nine subsequent reports were acceptable. On August 18, 1993, the vendor's on-site technical specialist confirmed that the system was operating within specification. The Stack GEMS noble gas station was declared operable on August 18, 1993, at 3:55 p.m.

Sincerely,

  
John H. Mueller  
Plant Manager - NMP2

JHM/JTP/lmc

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

