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REPORT SOURCE

1	6	0	5	0	0	0	2	8	9	7	0	8	2	7	8	3	8	0	9	1	2	8	3	9
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DOCKET NUMBER

EVENT DATE

REPORT DATE

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

While heating up with pump heat to hot shutdown conditions, a gas analyzer alarm

was received indicating high hydrogen. Miscellaneous Waste Storage Tank (MWST)

Hydrogen was 4.6% by Volume. This resulted in a degraded mode permitted by a

limiting condition for operation (T.S. 3.22.2.5). Public health and safety were

unaffected. Oxygen concentration was less than 1% by volume. This event is

reportable per T.S. 6.9.2.A.2.

08		9		SYSTEM CODE		CAUSE CODE		CAUSE SURCODE		COMPONENT CODE				COMP. SUBCODE		VALVE SUBCODE	
0	8			M	B	A		X		Z	Z	Z	Z	Z	Z	Z	
17		LER/RO REPORT NUMBER		EVENT YEAR		SEQUENTIAL REPORT NO.		OCCURRENCE CODE		REPORT TYPE		REVISION NO.					
17		8	3			0	2	2	0	1	T						
ACTION TAKEN		FUTURE ACTION		EFFECT ON PLANT		SHUTDOWN METHOD		HOURS		ATTACHMENT SUBMITTED		NPRO-4 FORM SUB					
X	H	Z	Z	Z		0	0	0	0	Y	N	Z					
18		19		20		21		22		23		24					

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)  
Cause was personnel error in that a technician failed to restore the proper valve

lineup after drawing a sample. The open valve allowed the Makeup Tank to vent to

the MWST. The valve was closed, the MWST was purged. A Plant Incident Report was

generated and reviewed by all Chemistry personnel

1 4  
7 8 9

FACILITY STATUS (1) 5 (G) (26) % POWER (0) (0) (U) (29) OTHER STATUS (N/A) (30) METHOD OF DISCOVERY (A) (31) DISCOVERY DESCRIPTION (Operator Observation) (32)

ACTIVITY CONTENT RELEASED OF RELEASE (Z) (33) (Z) (34) AMOUNT OF ACTIVITY (N/A) (35) LOCATION OF RELEASE (N/A) (36)

PERSONNEL EXPOSURES NUMBER TYPE DESCRIPTION (0) (0) (0) (37) (Z) (38) (N/A) (39)

PERSONNEL INJURIES NUMBER DESCRIPTION (0) (0) (0) (40) (N/A) (41)

LOSS OF OR DAMAGE TO FACILITY TYPE DESCRIPTION (Z) (42) (N/A) (43)

PUBLICITY ISSUED DESCRIPTION (N) (44) (45)

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PDR ADOCK 05000289  
S PDR

NRC USE ONLY

8309270133 830912  
PDR ADOCK 05000289  
S PDR

NRC USE ONLY

M. R. Knight

PHONE (717) 948-8647

High Hydrogen in Vent Header

I. Current Activities at-the-Time of the Occurrence

TMI-1 had been in cold shutdown since 1981 and was in the process of heating up to hot shutdown conditions for steam generator testing following extensive repairs to the steam generator tubes.

II. Circumstances Leading to the Occurrence

A hydrogen blanket had been established in the Makeup Tank in accordance with normal procedures.

III. Description

At 2330 on August 27, 1983, an alarm was received from the gas analyzer indicating high hydrogen. Concentration in the Miscellaneous Waste Storage Tank (MWST) was indicated at 4.6% hydrogen by volume. Technical Specification Amendment 85 established an interim limit of 2% hydrogen with no limit on oxygen effective until Cycle 5 criticality. The normal Technical Specification limits are 4% hydrogen and 2% oxygen (T.S. 3.22.2.5). Oxygen concentration was indicated at less than 1% by volume.

IV. Resultant Events

No resultant events occurred due to the high hydrogen concentration. With a low oxygen concentration, no flammable mixture was present.

V. Previous Events of a Similar Nature

None. Previous occurrences involved high oxygen in the vent header system due to maintenance activities.

VI. Root Cause

At 1500 on August 28, a valve, CA-V47, was found open in the sampling system which allowed the Makeup Tank to vent to the Miscellaneous Waste Storage Tank. This valve should have been closed in accordance with the sampling procedure.

This event was caused by personnel error. A Chemistry technician failed to restore the valve line up in accordance with the sampling procedure after drawing a sample.

VII. Immediate Corrective Action

At 2346 on August 27, a nitrogen purge of the MWST was initiated. When attempts to isolate the Makeup Tank were not successful, a nitrogen purge of the Makeup Tank was initiated.

At 1500 on August 28, sample valve CA-V47 was found open. MWST hydrogen concentration was reduced to less than 2% by 0930 on August 29, 1983.

The MWST hydrogen concentration was not reduced to less than 2% within one hour. This event is therefore considered prompt reportable in accordance with Technical Specification 6.9.2.A.2.

VIII. Long Term Corrective Action

A Plant Incident Report was generated and was reviewed with all Chemistry Department personnel to emphasize the importance of strict compliance with procedures.

IX. Component Failure Data

Not Applicable.



GPU Nuclear Corporation  
Post Office Box 480  
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717 944-7621  
TELEX 84-2386  
Writer's Direct Dial Number:

September 12, 1983  
5211-83-257

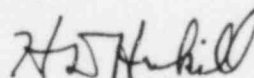
Dr. Thomas E. Murley  
Region I, Regional Administrator  
U. S. Nuclear Regulatory Commission  
631 Park Avenue  
King of Prussia, PA 19406

Dear Sir:

Three Mile Island Nuclear Station, Unit 1 (TMI-1)  
Operating License No. DPR-50  
Docket No. 50-289  
LER 83-022/01T-G

This letter transmits Licensee Event Report (LER) No. 83-022/01T-0 which deals with High Waste Gas Hydrogen Concentration. Public health and safety were unaffected.

Sincerely,

  
H. D. Hukill  
Director, TMI-1

HDH:MRK:vjf  
Attachments  
cc: R. Conte  
Document Management Branch