

**LICENSEE EVENT REPORT (LER)**

FACILITY NAME (1)										DOCKET NUMBER (2)				PAGE (3)	
Quad-Cities Nuclear Power Station, Unit 1										0 8 0 0 0 2 5 4				1 OF 0 2	

TITLE (4)
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### Standby Gas Treatment System Trains Declared Inoperable Due to Loss of Heaters

EVENT DATE (S)			USER NUMBER (S)			REPORT DATE (S)			OTHER FACILITIES INVOLVED (S)															
MONTH	DAY	YEAR	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	MONTH	DAY	YEAR	FACILITY NAME(S)					DOCKET NUMBER(S)										
									NA					0 5 0 0 0										
0	8	0	8	4	3	4	-	0	1	2	-	0	0	0	8	0	6	8	4	0 5 0 0 0				

OPERATING MODES (B)		THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 16 CFR § 1.117 (Check one or more of the following): (11)			
POWER LEVEL (10)	20 402(b)	20 406(a)		80 736(a)(2)(iv)	73.71(b)
	75 406(a)(1)(i)	90 36(a)(1)	X	90 736(a)(2)(v)	73.71(c)
	20 406(a)(1)(ii)	90 36(a)(2)		90 736(a)(2)(vi)	OTHER (Specify in Abstract below and in Text NRC Form 306A)
	20 406(a)(1)(iii)	90 736(a)(2)(i)		90 736(a)(2)(vii)(A)	
	20 406(a)(1)(iv)	90 736(a)(2)(ii)		90 736(a)(2)(vii)(B)	
	20 406(a)(1)(v)	90 736(a)(2)(iii)		90 736(a)(2)(viii)	
	20 406(a)(1)(vi)	90 736(a)(2)(iv)		90 736(a)(2)(ix)	

LICENSEE CONTACT FOR THIS LER (12)					
NAME	TELEPHONE NUMBER				
David B. Conk, extension 244	<table border="1"> <tr> <td>AREA CODE</td> <td></td> </tr> <tr> <td>3 0 9</td> <td>6 5 4 - 2 2 4</td> </tr> </table>	AREA CODE		3 0 9	6 5 4 - 2 2 4
AREA CODE					
3 0 9	6 5 4 - 2 2 4				

[illegible]

SUPPLEMENTAL REPORT EXPECTED (14)		EXPECTED SUBMISSION DATE (15)	MONTH	DAY	YEAR
<input type="checkbox"/> YES (17) complete EXPECTED SUBMISSION DATE:	<input checked="" type="checkbox"/> NO				

ABSTRACT (Limit to 400 spaces; i.e. approximately fifteen single-space typewritten lines) (18)

At 8:45 a.m., on August 2, 1984, the Reactor Building Vent System isolated. In the moments that followed, the 'B' Standby Gas Treatment System (SGBTS) train auto-started, its heater tripped, and when the 'A' train was started, its heater tripped. With both SGBTS trains inoperable, the 36 hour clock was started for this Limiting Condition of Operation, as stated in Technical Specification 3.7.8.1.6, and a General Station Emergency Plan (GSEP) Unusual Event was declared. Unit One was shutdown for a Refueling Outage and Unit Two was in the RUN mode at 100 percent core thermal power. This event is being reported as required by Federal Regulation 10 CFR 50.73(a)(2)(v)(C).

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## LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED OMB NO. 3150-0104

EXPIRES 8/31/86

FACILITY NAME (1)  Quad-Cities Nuclear Power Station, Unit 1	DOCKET NUMBER (2)  0500025484	LER NUMBER (6)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
		84	012	00	02	OF	02

TEXT (If more space is required, use additional NRC Form 388A's.)

Event Description

At 8:45 a.m., on August 2, 1984, the Reactor Building Vent System (VA) is lated. In the moments that followed, the 'B' Standby Gas Treatment System (SBGTS) train auto-started, its heater tripped, and when the 'A' train was started, its heater tripped. With both SBGTS trains inoperable, the 36 hour clock was started for this Limiting Condition of Operation, as stated in Technical Specification 3.7.B.1.b, and a General Station Emergency Plan (GSEP) Unusual Event was declared. Unit One was shutdown for a Refueling Outage and Unit Two was in the RUN mode at 100 percent core thermal power. This event is being reported as required by Federal Regulation 10 CFR 50.73(a)(2)(v)(C).

Cause

The cause of this deviation was an incorrect electrical wiring drawing dating back to the time of initial plant construction. As a temporary action for a different concern, jumpers were installed around contacts of the temperature switches which trip the SBGTS train heaters on high temperature. The proper terminal designations were filled in on the jumper sheets, but due to an incorrect electrical print the jumpers were installed on the wrong terminals. This resulted in a short circuit path on the secondary side of the control transformer in each train's heater logic circuit.

Corrective Action

Each train's wiring diagrams are being corrected to make them reflect what exists in the plant. The installation of new transformers was completed at 5:35 p.m. and the GSEP Unusual Event was terminated. The jumpers that bypass the high temperature switches were then re-installed in the proper places. The 'A' SBGTS train was put on and run for ten hours and then the 'B' train was successfully operated for ten hours.

In addition, Technical Staff Engineers will be instructed to more rigorously inspect actual plant configurations when working on modifications. As-built conditions can be critical to proposed modification work.

This event is considered to be an isolated case involving poor drawings dating back to original construction. The frequency of events caused by poor drawings is such that no further corrective action is deemed necessary.



Commonwealth Edison

## DEVIATION REPORT

DUR NO.

04 - 1 - 84 - 44  
STA UNIT YEAR NO

## PART 1 TITLE OF DEVIATION

SGT TRAINS DECLARED INOP DUE TO LOSS OF HEATERS

OCCURRED 8/2/84 0845 AM

SYSTEM AFFECTED

7500

PLANT STATUS AT TIME OF EVENT

U-1 S/D 0  
MODE U-2 RUN POWER(%) 100%

Q36690-84

Q36691-84

TESTING

☐ YES ☒ NO

## DESCRIPTION OF EVENT

WHEN REACTOR VENTILATION TRIPPED, BOTH SBTG TRAINS ATTEMPTED TO  
AUTO START. "B" TRAIN STARTED AND THEN TRIPPED AND "A" TRAIN  
WOULD NOT AUTO START. MCC 19-4 "B" SBTG HTR BKR FAILED AND MCC  
29--4 "A" SBTG HTR BKR FAILED.

POTENTIALLY SIGNIFICANT EVENT PER MSD DIRECTIVE A-07

☒ YES ☐ NO

10CFR50.72 MPC RED PHONE

NOTIFICATION MADE

☒ 1 HOUR☐ 4 HOUR 935 AM ☐ NO  
TIMEJOHN FAHRENWALD  
RESPONSIBLE SUPERVISOR8/2/84  
DATE

## PART 2 OPERATING ENGINEER'S COMMENTS

NO RADIOACTIVE RELEASE WAS MADE DURING THE SBTG INOP. REPAIRS WERE INITIATED  
IMMEDIATELY TO GET IN THE SBTG TRAINS TO AN OPERABLE STATUS BEFORE THE LCO  
TIME LIMIT WAS UP.

- ☐ NON REPORTABLE EVENT  
☒ 30 DAY REPORTABLE PER 50.73(a)(2)(V) 10CFR (C)  
☐ 5 DAY REPORT PER 10CFR21  
☐ ANNUAL/SPECIAL REPORT REQUIRED

A.I.R. #

L.E.R. # 84-17

NOTIFICATION

REGION III

DATE TIME

MSD

DATE TIME

☐ CECO CORPORATE NOTIFICATION MADE  
IF ABOVE NOTIFICATION IS PER 10CFR21

TELECOPY

CECO CORPORATE OFFICER

DATE TIME

PRELIMINARY REPORT  
COMPLETED AND REVIEWED

G TIETZ

OPERATING ENGINEER

DATE

INVESTIGATION REPORT & RESOLUTION  
ACCEPTED BY STATION REVIEWRESOLUTION APPROVED AND  
AUTHORIZED FOR DISTRIBUTION

STATION SUPERINTENDENT

DATE

(Form 15-52-1)

1-84

8/18/84



**Commonwealth Edison**

Quad Cities Nuclear Power Station  
22710 206 Avenue North  
Cordova, Illinois 61242  
Telephone 309/654-2241

NJK-84-238

August 6, 1984

U. S. Nuclear Regulatory Commission  
Document Control Desk  
Washington, DC 20555

Reference: Quad-Cities Nuclear Power Station  
Docket Number 50-254, DPR-29, Unit One

Enclosed please find Licensee Event Report Number 84-012  
for Quad-Cities Nuclear Power Station.

This report is submitted to you in accordance with the  
requirements of the Code of Federal Regulations, Title 10,  
Part 50.73(a)(2)(v)(C), which requires reporting of any event  
or condition that alone could have prevented the fulfillment  
of the safety function of structures or systems that are  
needed to control the release of radioactive material.

Respectfully,

COMMONWEALTH EDISON COMPANY  
QUAD-CITIES NUCLEAR POWER STATION

N. J. Kalivianakis  
Station Superintendent

NJK DBG/nb

Enclosure

B. Rybak  
A. Marrangello  
INPO Records Center  
NRC Region III

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