

LICENSEE EVENT REPORT (LER)

Form Rev 2.0

Facility Name (1) Quad-Cities Unit One Docket Number (2) 0 | 5 | 0 | 0 | 0 | 2 | 5 | 4 Page (3) 1 of 0 | 4

Title (4) 1/2 A Standby Gas Treatment System Flow Setting Found Outside the Specification Limit Due to

Apparent Personnel Error

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)
0 8	0 7	8 8	8 8	0 1 2	0 0	0 9	0 6	8 8	Quad Cities Unit Two	0 5 0 0 0 2 6 5

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

OPERATING MODE (9) 4	<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)
POWER LEVEL (10) 0 3 0	<input type="checkbox"/> 20.405(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"/> 20.405(a)(1)(ii)	<input type="checkbox"/> 50.36(c)(2)	<input type="checkbox"/> 50.73(a)(2)(vii)	<input type="checkbox"/> Other (Specify in Abstract below and in Text)
	<input type="checkbox"/> 20.405(a)(1)(iii)	<input checked="" type="checkbox"/> 50.73(a)(2)(i)	<input type="checkbox"/> 50.73(a)(2)(viii)(A)	
	<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)(ix)	

LICENSEE CONTACT FOR THIS LER (12)

Name: Bob Castro, Technical Staff Engineer, Ext. 2166
 TELEPHONE NUMBER: AREA CODE 3 | 0 | 9, 6 | 5 | 4 | - | 2 | 2 | 4 | 1

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	

SUPPLEMENTAL REPORT EXPECTED (14)

[Yes (if yes, complete EXPECTED SUBMISSION DATE)] X | NO
 Expected Submission Date (15) Month | Day | Year

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

On August 7, 1988, Quad Cities Unit One was in the RUN mode at 30 percent thermal power and Unit Two was in SHUTDOWN at 0 percent thermal power. At 1600 hours, high flow (4600 cfm) was observed in the 1/2 A Standby Gas Treatment System (SBGTS). Technical Specification 4.7.b.1 requires 4000 cfm (+/-10 percent).

The cause of this event was due to a personnel error that left closed the instrument air supply shutoff valve to the 1/2 A SBGTS flow control valve. It is speculated that this valve was left closed after a July 14, 1988 calibration.

This event was discussed with the individual involved and to prevent recurrence, the procedure governing the calibration will be revised to incorporate a second verification of valve position for valves related to instruments that provide trip or control functions. This report is provided per 10CFR50.73(a)(2)(i).

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FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6)			Page (3)		
		Year	Sequential Number	Revision Number			
Quad Cities Unit One	0 5 0 0 0 2 5 4	8 8	- 0 1 2	- 0 0	0 3	QF	0 4

TEXT Energy Industry Identification System (EIS) codes are identified in the text as [XX]

A subsequent investigation revealed that pressure switch 1/2-7541-32A was calibrated last on July 14, 1988. The calibration was performed in accordance with QIP 100-11, Revision 3 (Calibration Of Instruments Used By Operations In Performing Their Surveillance Requirements). The calibration was documented on QIP 100-T11, Revision 8 (Calibration Record Of Instruments Used By Operations In Performing Their Surveillance Requirements). Pressure switch 1/2-7541-32A is required by the procedure to be isolated prior to calibration.

The 1/2 A SBGTS was started on July 22, July 28, August 5, and August 6, 1988. The longest run of these four operations was approximately 15 minutes. Computer point history shows the 1/2 A SBGTS had high flows on these four runs. Therefore, the instrument air supply shutoff valve was closed (or left closed) sometime between the period of July 14, 1988 (date of PS 1/2-7541-32A calibration), and July 22, 1988 (first train run after calibration).

C. APPARENT CAUSE OF EVENT:

This report is provided to comply with 10CFR50.73(a)(2)(1): the licensee shall report any operation or condition prohibited by the plant's Technical Specifications.

The cause of high flow (4600 SCFM) through the 1/2 A SBGTS can be attributed to personnel error. It is speculated that the Instrument Mechanic (IM) who performed the July 14, 1988, calibration left the instrument air shutoff valve closed, isolating instrument air to flow control valve AO 1/2-7510A.

A contributing cause to this event was that the procedure in use did not require a second verification of valve position.

D. SAFETY ANALYSIS OF EVENT:

The Standby Gas Treatment Systems are provided to maintain a negative pressure in the reactor building [NG] when it is isolated. This is to prevent the ground level release of airborne activity and to treat the effluent from the reactor building prior to discharge through the main chimney [WF] to minimize the release of radioactive material to the environment in the event of a design basis accident.

Due to the increased flow, the residence time is somewhat reduced at a non-linear rate, and it is estimated that the carbon filters would have a slightly shorter life. However, the redundant SBGTS was operable at all times from July 14, 1988, to August 8, 1988, and had the need arisen, could have been manually started to backup the running train.

E. CORRECTIVE ACTION:

This item was discussed with the individual involved and with the IM Department at a weekly department tailgate meeting.

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

Form Rev 2.0

FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6)			Page (3)		
		Year	Sequential Number	Revision Number			
Quad Cities Unit One	0 5 0 0 0 2 5 4	8 8	- 0 1 2	- 0 0	0 4	QF	0 4

TEXT Energy Industry Identification System (EIS) codes are identified in the text as [XX]

Corrective action will consist of a revision to QIP 100-11 and QIP 100-T11. Instruments referenced in QIP 100-T11 are currently being reviewed by the Instrument Maintenance Department for their impact on control or trip functions. Those instruments that possess control or trip functions will be noted on QIP 100-T11. All associated instrument valves will require a second verification to ensure proper position. Revisions to QIP 100-T11 and QIP 100-11 are expected to be complete on or about October 15, 1988. This effort will be tracked by NTS 2542008805501.

On four occasions, correct operator response to system operating parameters would have reduced the time between the initial error and detection. The following corrective actions were identified to strengthen the operator's response:

- The SBGTS flow meters (1/2-7540-13A(B)) will be color-banded showing Technical Specification 4.7.B.1 flow requirements and limitations for easier identification per Work Requests Q69020 and Q69021 (NTS 2542008805502).
- In addition, this event will be incorporated into the Station's "Lessons Learned" license training to stress the importance of monitoring equipment parameters when equipment is started to assure proper operation (NTS 2542008805503).

F. PREVIOUS EVENTS:

There have been no previous similar events pertaining to high flow on the SBGTS.

G. COMPONENT FAILURE DATA:

There was no component failure in this event.



Commonwealth Edison

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

RLB-88-290

August 29, 1988

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 is Licensee Event Report (LER) 88-012, Revision 00, for
Quad-Cities Nuclear Power Station.

This report is submitted in accordance with the requirements of the Code
of Federal Regulations, Title 10, Part 50.73(a)(2)(i): the licensee shall
report any operation or condition prohibited by the plant's Technical
Specifications.

Respectfully,

COMMONWEALTH EDISON COMPANY
QUAD-CITIES NUCLEAR POWER STATION

R. A. Raley for
R. L. Bax
Station Manager

RLB/DWH/ad

Enclosure

cc: I. Johnson
R. Higgins
INPO Records Center
NRC Region III

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