

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) Quad-Cities Nuclear Power Station, Unit 1										DOCKET NUMBER (2) 0 5 0 0 0 2 5 4 1					PAGE (3) 1 OF 2	
TITLE (4) Reactor Scram From Group I Isolation From Rack Vibration																
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 NA				DOCKET NUMBER(S) 0 5 0 0 0			
0 5	3 0	8 5	8 5	0 0 6	0 0	0 6	1 8	8 5					0 5 0 0 0			
OPERATING MODE (9) 4		THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR 5: (Check one or more of the following) (11)														
POWER LEVEL (10) 1 0 0		20.402(b)				20.408(a)				<input checked="" type="checkbox"/> 80.73(a)(2)(iv)				73.71(b)		
		20.408(a)(1)(i)				80.38(a)(1)				<input type="checkbox"/> 80.73(a)(2)(v)				73.71(e)		
		20.408(a)(1)(ii)				80.38(a)(2)				<input type="checkbox"/> 80.73(a)(2)(vi)				OTHER (Specify in Abstract below and in Text, NRC Form 308A)		
		20.408(a)(1)(iii)				80.73(a)(2)(i)				<input type="checkbox"/> 80.73(a)(2)(vii)(A)						
		20.408(a)(1)(iv)				80.73(a)(2)(ii)				<input type="checkbox"/> 80.73(a)(2)(vii)(B)						
		20.408(a)(1)(v)				80.73(a)(2)(iii)				<input type="checkbox"/> 80.73(a)(2)(ix)						
LICENSEE CONTACT FOR THIS LER (12)																
NAME Joyce Aschermann, Technical Staff										TELEPHONE NUMBER AREA CODE 310 9 651 41-2141						
COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)																
CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRC		CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRC						
B	J	M	PS	B	10619	N										
SUPPLEMENTAL REPORT EXPECTED (14)												EXPECTED SUBMISSION DATE (15)		MONTH	DAY	YEAR
<input type="checkbox"/> YES (If yes, complete EXPECTED SUBMISSION DATE)												<input checked="" type="checkbox"/> NO				

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

On May 30, 1985, Unit 1 was operating at approximately 100 percent core thermal power. At 6 p.m. a Reactor scram occurred due to a Group I isolation. The Main Steam Isolation Valves were reopened and the Bypass Valves opened to lower Reactor pressure. Reactor water level decreased rapidly. A Reactor feed pump was started to replace the lost inventory. A second Reactor scram occurred at 6:07 p.m. due to low Reactor water level. A minute later, Reactor water level was restored to normal.

The Group I isolation was caused by a spurious isolation signal from Pressure Switches PS-1-261-30A, B, C, and D. Normal scram recovery was initiated in approximately eight minutes. No safety limits were exceeded and all safety systems functioned as designed; therefore, the safety implications of this event were minimal.

This report is being submitted to you in accordance with the requirements of the Code of Federal Regulations, Title 10, Part 50.73(a)(2)(iv) which requires the reporting of any event that resulted in an actuation of any Engineered Safety Feature (ESF).

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

APPROVED OMB NO. 3150-0104
EXPIRES 8/31/85

FACILITY NAME (1) Quad-Cities Nuclear Power Station, Unit 1	DOCKET NUMBER (2) 0 5 0 0 0 2 5 4 8 5 - 0 0 6 - 0 p 0 2 OF 0 2	LER NUMBER (6)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			

TEXT (if more space is required, use additional NRC Form 308A's) (17)

Event Description

On May 30, 1985, Unit 1 was operating at approximately 100 percent core thermal power. At 6 p.m., while valving in Pressure Transmitter PT 1-5641-2, Instrument Rack 2251-1 began to vibrate. This rack contains Pressure Switches PS 1-261-30A, B, C, and D, which actuate a Group I isolation on Main Steam Line (SB) low pressure. The vibration on Instrument Rack 2251-1 caused these pressure switches to trip initiating a Group I isolation.

The Main Steam Isolation Valves (MSIV) (SB) closed when a Group I isolation signal was received and the Reactor scrambled on MSIV closure. The MSIV closure caused the Reactor water level to increase. The Reactor Feedwater Pumps (SJ) tripped when the Reactor water level reached +48 inches. Since there was not a steam line break, the MSIV's were reopened. The Bypass Valves open when Main Steam Line pressure is above 920 psi. When the MSIV's were opened, the actual pressure was 960 psi and the Bypass Valves opened. Reactor water level decreased rapidly. Although a Reactor Feedwater Pump was started when Reactor water level was at +30 inches, a second Reactor scram occurred at 6:07 p.m. due to low Reactor water level (+8 inches). A minute later, Reactor water level was restored to normal.

All safety systems shutdown the Reactor as designed and safety limits were not exceeded. Therefore, the safety consequences of this event were minimal.

Cause

The root cause of this deviation was the spurious isolation signal from Pressure Switches PS 1-261-30A, B, C, and D. The switches are Barksdale Bourdon Tube switches, Model Number B2T-A1255.

Corrective Action

The immediate corrective action was to initiate a normal scram recovery. A Group I isolation due to vibration on Instrument Rack 2251-1 occurred on January 16, 1985. Action Item Record 85-2 was issued to the Station Nuclear Engineering Department (SNED) at that time, and SNED is in the process of investigating this problem.

Also, in the future, when valving in on this rack, Instrument Maintenance will pre-pressurize the sensing line to prevent vibration of the sensing line and rack.



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NJK-85-172

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

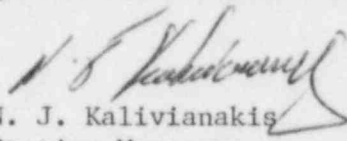
Reference: Quad-Cities Nuclear Power Station
Docket Number 50-254, DPR-29, Unit One

Enclosed please find Licensee Event Report (LER) 85-006, Revision 00, 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)(iv), which requires the reporting of any event that resulted in an actuation of any Engineered Safety Feature (ESF).

Respectfully,

COMMONWEALTH EDISON COMPANY
QUAD-CITIES NUCLEAR POWER STATION


N. J. Kalivianakis
Station Manager

NJK:BRS/bb

Enclosure

cc B. Rybak
A. Madison
INPO Records Center
NRC Region III

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