

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) Davis-Besse Unit 1										DOCKET NUMBER (2) 0 5 0 0 0 3 4 6 1 OF 0 3										PAGE (3) 1 OF 0 3			
TITLE (4) Auxiliary Feedwater Control Room Panel Indicator Wiring 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	6	0	3	8	5	8	5	0	1	2	0	0	0	7	0	2	8	5	0	5	0	0	0
OPERATING MODE (9) 3			THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR 5: (Check one or more of the following) (11)																				
POWER LEVEL (10) 0 0 0			20.402(b)				20.406(a)				50.73(a)(2)(iv)				73.71(b)								
			20.406(a)(1)(i)				50.36(a)(1)				50.73(a)(2)(v)				73.71(e)								
			20.406(a)(1)(ii)				50.36(a)(2)				50.73(a)(2)(vi)				OTHER (Specify in Abstract below and in Text, NRC Form 306A)								
			20.406(a)(1)(iii)				X 50.73(a)(2)(i)				50.73(a)(2)(vii)(A)												
			20.406(a)(1)(iv)				50.73(a)(2)(ii)				50.73(a)(2)(vii)(B)												
			20.406(a)(1)(v)				50.73(a)(2)(iii)				50.73(a)(2)(ix)												
LICENSEE CONTACT FOR THIS LER (12)																							
NAME Tim Czuba										TELEPHONE NUMBER AREA CODE 4 1 9 2 4 9 - 5 0 0 0													
COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)																							
CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPDOS		CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPDOS													
A	J B	M T R	X 9 9 9	Y																			
SUPPLEMENTAL REPORT EXPECTED (14)										EXPECTED SUBMISSION DATE (15)				MONTH			DAY			YEAR			
YES (If yes, complete EXPECTED SUBMISSION DATE)										X NO													

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

On June 3, 1985, during the performance of the Auxiliary Feedwater System Refueling Test ST 5071.02, it was noted that one of the two Control Room panel flow meters was indicating flow. In this test recirculation flowpath the flow element should see no flow. A check of the redundant flow meter and computer point concluded that the problem was in the flow indicator FI4521.

The Station entered the action statement of Technical Specification 3.3.3.6 which requires the indication be restored within 30 days. The Station was in Mode 3 (Hot Standby) at the time of the occurrence. The problem was corrected the next day before starting up.

The investigation found the dual indicating panel meters FI4521 and PI505 had their leads reversed. This probably occurred on March 29, 1985, when the meter was replaced. Therefore, this is reportable under 10CFR50.73(a)(2)(i)(B).

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

APPROVED OMB NO. 3150-0104

EXPIRES: 9/31/85

FACILITY NAME (1) Davis-Besse Unit 1	DOCKET NUMBER (2) 0 5 0 0 0 3 4 6	LER NUMBER (6)			PAGE (3)		
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		8 5	— 0 1 2	— 0 0	0 2	OF	0 3

TEXT (If more space is required, use additional NRC Form 365A's) (17)

Description of Occurrence: On June 3, 1985, the Station was in Mode 3 (Hot Standby) following the reactor trip of June 2, 1985. At 2030 hours on June 3, 1985, the Auxiliary Feedwater System Refueling Test ST 5071.02 was being run on Auxiliary Feedwater Pump, AFP 1-1. When the pump was started, it was noted that the Auxiliary Feedwater Flow Rate Indicator 1-1 (FI4521) indicated 900 gpm and that Auxiliary Feedwater Discharge Pressure Indicator (PI505) indicated 0 psig. These two indicators are located side by side in a dual indicating panel meter. For the test recirc lineup the system was in, there should have been discharge pressure indication but flow should have indicated 0 gpm since the flow indicator was not in this test recirc flowpath.

A check of the computer point for the discharge pressure (P001) and the redundant flow indicator FI4630 confirmed that the problem was in the Control Room indication for FI4521 and PI505. The auxiliary feedwater pump was shutdown, and the Station entered the action statement of Technical Specification 3.3.3.6, which requires the inoperable indication of auxiliary feedwater flow to be restored to operable within 30 days.

The event is reportable under 10CFR50.73(a)(2)(i)(B) when troubleshooting determined that the condition had existed prior to its discovery for a period of time greater than the Technical Specification action statement.

Designation of Apparent Cause of Occurrence: The apparent cause of the meter problem was found to be that the wires had been reversed on this dual indicating panel meter. The panel meter was replaced under Maintenance Work Order 1-85-1149-01 on March 29, 1985. At that time, the leads for AFP 1-1 flow and AFP 1-1 discharge pressure were reversed. A check of the hookup found that there were no wire markings on the meter to help restore the leads to the correct meter. The hookup of the meters is also made difficult due to their location in the lower part of the front panel, which requires the technician to be on his back to make the installation.

Analysis of Occurrence: During an auxiliary feedwater actuation (not in a test lineup), the Control Room Operator would expect to see the pointers on both indicators come up. This is what they would see even with the leads reversed. The parameter that really affects the operator actions is the Once Through Steam Generator level and pressure. There is also redundant flow indication FI4630 and computer points for each parameter. These were unaffected by the wire reversal on FI4521 and PI505.

Corrective Action: At 0010 hours on June 4, 1985, the leads were connected to the proper meters and verified correct. This event has been discussed with the I&C Shops. It will also be required that whenever a meter is being disconnected that the wire lead numbers should be marked on the meter for correct reinstallation. If a new meter is being installed, the markings should be transferred from the old meter for the same reason. These administrative controls will be incorporated into a revision of AD 1823.00, the Jumper and Lifted Wire Control Procedure, and AD 1844.00, Maintenance.

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

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EXPIRES 8/31/85

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YEAR

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NUMBERREVISION
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TEXT (If more space is required, use additional NRC Form 365A's) (17)

Failure Data: This is the first occurrence of dual indicating meters being wired in reverse.

Report No: NP-33-85-16DVR No(s): 85-085



July 2, 1985

Log No. K85-937
File: RR 2 (NP-33-85-16)

Docket No. 50-346
License No. NPF-3

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

Gentlemen:

LER No. 85-012
Davis-Besse Nuclear Power Station Unit 1
Date of Occurrence: June 3, 1985

Enclosed is Licensee Event Report 85-012 which is being submitted in accordance with 10CFR50.73, to provide 30 day written notification of the event occurrence.

Yours truly,

Stephen M. Quennoz
Plant Manager
Davis-Besse Nuclear Power Station

SMQ/ljk

Enclosure

cc: Mr. James G. Keppler,
Regional Administrator,
USNRC Region III

Mr. Walt Rogers
DB-1 NRC Resident Inspector

JCS/001

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