

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) Kewaunee Nuclear Power Plant	DOCKET NUMBER (2) 0 5 0 0 0 3 0 5	PAGE (3) 1 OF 0 2
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TITLE (4)  
Turbine and Reactor Trip Due to Improperly Wired Switch

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 5	0 7	8 4	8 4	0 0 9	0 0	0 6	0 6	8 4	NA			0 5 0 0 0																																						
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:15%;">OPERATING MODE (9)</td> <td style="width:15%;">N</td> <td style="width:15%;">20 402(b)</td> <td style="width:15%;">20 406(c)</td> <td style="width:15%; text-align: center;"><input checked="" type="checkbox"/></td> <td style="width:15%;">80 73(a)(2)(iv)</td> <td style="width:15%;">73.71(b)</td> </tr> <tr> <td rowspan="4">POWER LEVEL (10) 0 2 5</td> <td></td> <td>20 406(a)(1)(i)</td> <td>80 36(e)(1)</td> <td></td> <td>80 73(a)(2)(v)</td> <td>73.71(c)</td> </tr> <tr> <td></td> <td>20 406(a)(1)(ii)</td> <td>80 36(e)(2)</td> <td></td> <td>80 73(a)(2)(vi)</td> <td>OTHER (Specify in Abstract below end in Text, NRC Form 366A)</td> </tr> <tr> <td></td> <td>20 406(a)(1)(iii)</td> <td>80 73(a)(2)(i)</td> <td></td> <td>80 73(a)(2)(viii)(A)</td> <td></td> </tr> <tr> <td></td> <td>20 406(a)(1)(iv)</td> <td>80 73(a)(2)(ii)</td> <td></td> <td>80 73(a)(2)(viii)(B)</td> <td></td> </tr> <tr> <td></td> <td></td> <td>20 406(a)(1)(v)</td> <td>80 73(a)(2)(iii)</td> <td></td> <td>80 73(a)(2)(ix)</td> <td></td> </tr> </table>												OPERATING MODE (9)	N	20 402(b)	20 406(c)	<input checked="" type="checkbox"/>	80 73(a)(2)(iv)	73.71(b)	POWER LEVEL (10) 0 2 5		20 406(a)(1)(i)	80 36(e)(1)		80 73(a)(2)(v)	73.71(c)		20 406(a)(1)(ii)	80 36(e)(2)		80 73(a)(2)(vi)	OTHER (Specify in Abstract below end in Text, NRC Form 366A)		20 406(a)(1)(iii)	80 73(a)(2)(i)		80 73(a)(2)(viii)(A)			20 406(a)(1)(iv)	80 73(a)(2)(ii)		80 73(a)(2)(viii)(B)				20 406(a)(1)(v)	80 73(a)(2)(iii)		80 73(a)(2)(ix)	
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LICENSEE CONTACT FOR THIS LER (12)

NAME Thomas J. Vukovich - Plant Nuclear Engineer	TELEPHONE NUMBER AREA CODE: 4 1 4   3 8 8 - 2 5 6 0
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COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)

CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRRDS	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRRDS
A									

SUPPLEMENTAL REPORT EXPECTED (14)

<input type="checkbox"/> YES (if yes, complete EXPECTED SUBMISSION DATE) <input checked="" type="checkbox"/> NO	EXPECTED SUBMISSION DATE (15) MONTH:   DAY:   YEAR:
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ABSTRACT (Limit to 1400 spaces, i.e., approximately fifteen single spaced typewritten lines) (16)

At 1917 on May 7, 1984 with the plant at 25% power following a refueling outage, a turbine and reactor trip was received while performing procedure RT-TB-54D, "Turbine Trip Mechanism Test". The trip occurred during step 4.3, "Thrust Bearing Trip Simulation". The operators performed the immediate actions in the Turbine and Reactor Trip Procedure and placed the plant in the Hot Shutdown operating mode.

The following evening an attempt was made to repeat the circumstances of the trip, at 0% power. Again the result was a turbine trip, but not a reactor trip.

Further investigation revealed the cause of the turbine trip was a pressure switch (PS16158), wired incorrectly. The Pressure Switch was miswired during the performance of Instrument and Control Procedure, ICP 54.30, "Turbine Generator Motoring Protection Pressure Switches". The switch was returned to its normal configuration.

The Instrument and Control Technician who performed the work was cautioned on the significance of this event. This is considered an isolated occurrence and no further followup action is required.

The reactor protection system performed its required function, hence there was no impact on public health and safety.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

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		8 4	- 0 0 9	- 0 0	0 2	OF 0 2

TEXT (if more space is required, use additional NRC Form 388A's) (17)

At 1917 on May 7, 1984 with the plant at 25% power, a turbine and reactor trip occurred. The trip was a result of procedure RT-TB-54D, "Turbine Trip Mechanism Test", being performed. The trip occurred during a portion of the test, "Thrust Bearing Trip Simulation", that checks Pressure Switch (PS) PS16157. The procedure calls for the Thrust Bearing Trip Test Valve (V) to be opened, thereby reducing the pressure to PS16157. The actual pressure, the switch trips at, is then recorded. PS16158 should prevent the trip. The logic required to cause a turbine trip is a 2 out of 2 logic. PS16158 trips at 60 psig and PS16157 trips at 45 psig. The operators performed the immediate actions in the Turbine and Reactor Trip Procedure, (E-0-04), and placed the plant in the Hot Shutdown mode.

The following day, May 8, 1984, with the reactor at 0% power, the same test was again performed in an attempt to discover the reason for the previous trip. Again a turbine trip was the result, but not a reactor trip.

Further investigation discovered reversed leads on PS16158. Leads AST 6-3 and AST 6-1 were connected backwards. This caused the pressure switch PS16158 to give a trip signal.

RT-TB-54D is performed monthly while at power. No trip had been experienced during the previous cycle, while performing this procedure.

The improper wiring of the Pressure Switch occurred during refueling when Instrument and Control Procedure 54.30, "Turbine and Generator Motoring Protection Pressure Switch", was performed. Discussion with the Instrument and Control man who performed the test revealed that he had lifted the two leads, AST6-3 and AST6-1, to perform the procedure. It is speculated that the two leads were reversed when the procedure was completed.

To preclude a recurrence of this type of event, I & C personnel were counseled on the significance of this event and the value of referring to logic and wiring diagrams and other material available to them to help fully understand the procedures they are performing.

No similar events of this type have been experienced. The reactor protection system performed it's required function, hence there was no impact on public health and safety.

## WISCONSIN PUBLIC SERVICE CORPORATION



P.O. Box 1200, Green Bay, Wisconsin 54305

June 6, 1984

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

Gentlemen:

Docket 50-305  
Operating License DPR-43  
Kewaunee Nuclear Power Plant  
Reportable Occurrence 84-009-00

In accordance with the requirements of 10 CFR 50.73 "Licensee Event Report System", the attached Licensee Event Report for reportable occurrence 84-009-00 is being submitted.

Very truly yours,

A handwritten signature in cursive script, appearing to read "C. W. Giesler".

C. W. Giesler  
Vice President - Power Production

DJM/jks

Attach.

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