

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) Kewaunee Nuclear Power Plant DOCKET NUMBER (2) 0 5 0 0 0 3 0 5 1 OF 0 2

TITLE (4) Inadvertent Start of Both Diesel Generators

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	2	2	5	8	5	8	5	0	0	8	0	0	0	3	2	7	8	5	N/A	0	5	0	0	0

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

OPERATING MODE (9) <u>N</u>	<input type="checkbox"/> 20.402(b)	<input type="checkbox"/> 20.408(e)	<input checked="" type="checkbox"/> 30.73(a)(2)(iv)	<input type="checkbox"/> 73.71(b)
POWER LEVEL (10) <u>0, 0, 0</u>	<input type="checkbox"/> 20.408(a)(1)(i)	<input type="checkbox"/> 30.38(a)(1)	<input type="checkbox"/> 30.73(a)(2)(v)	<input type="checkbox"/> 73.71(c)
	<input type="checkbox"/> 20.408(a)(1)(ii)	<input type="checkbox"/> 30.38(a)(2)	<input type="checkbox"/> 30.73(a)(2)(vi)	OTHER (Specify in Abstract Below and in Text, NRC Form 365A)
	<input type="checkbox"/> 20.408(a)(1)(iii)	<input type="checkbox"/> 30.73(a)(2)(i)	<input type="checkbox"/> 30.73(a)(2)(viii)(A)	
	<input type="checkbox"/> 20.408(a)(1)(iv)	<input type="checkbox"/> 30.73(a)(2)(ii)	<input type="checkbox"/> 30.73(a)(2)(viii)(B)	
	<input type="checkbox"/> 20.408(a)(1)(v)	<input type="checkbox"/> 30.73(a)(2)(iii)	<input type="checkbox"/> 30.73(a)(2)(ix)	

LICENSEE CONTACT FOR THIS LER (12)

NAME Lee Vanden Heuvel - Nuclear Instructor-Engineering & Physics TELEPHONE NUMBER 4114 318181-12151610

COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)

CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPROS	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPROS

SUPPLEMENTAL REPORT EXPECTED (14)

YES (If yes, complete EXPECTED SUBMISSION DATE) NO

EXPECTED SUBMISSION DATE (15) N/A

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

At 1647 on February 25, 1985, with the plant in a refueling shutdown condition, alarm 47001-34, "Condenser Low Vacuum Turbine Trip", momentarily cleared and then alarmed again. Following this, both diesel generators started. After investigating the cause, the diesel generators were secured.

Investigation revealed that these two events were caused by maintenance to the turbine trip mechanism located on the turbine pedestal. During this maintenance the turbine manual trip/reset lever was momentarily placed in the latch position allowing turbine auto stop oil pressure to increase to the point where the turbine trip pressure switches were reset. This cleared the Condenser Low Vacuum Turbine Trip alarm. The lever was then placed in the trip position allowing the auto stop oil pressure to decrease. As the pressure fell below 45 psig, the Condenser Low Vacuum Turbine Trip signal and Diesel Generator Start signals were initiated.

To prevent recurrence, the diesel generator start signal from a turbine trip will be removed from service as part of the shutdown evolution during extended outages and returned to service prior to unit start-up.

This event had minimal impact on plant activities and no effect on the public health and safety.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

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		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER		
		8 5	- 0 0 8	- 0 0	0 2	OF 0 2

TEXT (If more space is required, use additional NRC Form 386A's) (17)

At 1647 on February 25, 1985, with the plant in a refueling shutdown condition, alarm (ALM) 47001-34, "Condenser Low Vacuum Turbine Trip", momentarily cleared and then alarmed again. Following this, alarms 47029-21, "Diesel Gen 1A Engine Abnormal", and 47031-25, "Diesel Gen 1B Engine Abnormal", were received in the control room and both diesel generators (DG) started. The engine abnormal alarms were generated by low starting air pressure which is normal for a diesel generator start as the air start receiver (RCV) blows down. These two alarms cleared a few minutes later, after the air compressor (CMP) started. After investigating the cause, the diesel generators were secured.

Investigation revealed that the turbine trip alarm and diesel generator start signals were caused by maintenance on the turbine trip mechanism located on the turbine pedestal. While testing the low condenser vacuum trip mechanism, the turbine manual trip/reset lever was moved to the latch position momentarily. During the time that the lever was in the latch position, an increase in turbine auto stop oil pressure occurred because the seal oil backup pump (P) was running. When the pressure increased to above 45 psig, auto stop oil pressure relays (RLY) 63/AST-1, 63/AST-2, 63/AST-3, 63/AST-4, 63/AST-5 and 63/AST-6 were reset. When 63/AST-1 reset, alarm 47001-34, "Condenser Low Vacuum Turbine Trip", cleared.

The turbine manual trip/reset lever was then moved to the trip position. This allowed the auto stop oil to drain out, causing a decrease in auto stop oil pressure. When the pressure fell below 45 psi, the auto stop oil pressure relays tripped again. The tripping of 63/AST-1 caused the "Condenser Low Vacuum Turbine Trip" alarm to alarm again. The tripping of 63/AST-3 initiated the start signals for both diesel generators. 63/AST-3 also combines with 63/AST-4 and 63/AST-5 in a 2 of 3 logic for a reactor trip above 10% power. 63/AST-6 is used to trip the generator coincident with high thrust bearing wear. Therefore, the only automatic action that occurred were the diesel generators starting and the turbine trip alarm being received in the control room.

Under refueling conditions, there is no impact on the plant other than an inadvertent start of the diesel generators. Under operating conditions of greater than 10% power this event would have resulted in a turbine and reactor trip in addition to a diesel generator start.

To prevent reoccurrence, the fuses for the relays associated with 63/AST-3 will be removed as part of the shutdown evolution during extended outages to prevent the relay from energizing and starting the diesel generators. These will be returned to service prior to unit start-up.

WISCONSIN PUBLIC SERVICE CORPORATION

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



March 27, 1985

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 85-008-00

In accordance with the requirements of 10 CFR 50.73 "Licensee Event Report System", the attached Licensee Event Report for reportable occurrence 85-008-00 is being submitted.

Very truly yours,

A handwritten signature in dark ink, appearing to read "D. C. Hintz".

D. C. Hintz
Manager - Nuclear Power

GWH/js

Attach.

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