

## 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	
TITLE (4) Inadequate Documentation to Support Seismic Qualification of Diesel Generator Differential Relays																					
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 N/A				DOCKET NUMBER (5) 0 5 0 0 0								
0 6	1 7	8 5	8 5	0 1 5	0 0 0	7 1 7	8 5						0 5 0 0 0								
OPERATING MODE (9) N		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)				20.406(c)				50.73(a)(2)(iv)				73.71(b)							
		20.406(a)(1)(i)				50.36(e)(1)				X 50.73(a)(2)(v)				73.71(c)							
		20.406(a)(1)(ii)				50.36(e)(2)				50.73(a)(2)(vii)				OTHER (Specify in Abstract below and in Text, NRC Form 366A)							
		20.406(a)(1)(iii)				X 50.73(a)(2)(i)				50.73(a)(2)(viii)(A)											
		20.406(a)(1)(iv)				50.73(a)(2)(ii)				50.73(a)(2)(viii)(B)											
		20.406(a)(1)(v)				50.73(a)(2)(iii)				50.73(a)(2)(ix)											
LICENSEE CONTACT FOR THIS LER (12)												TELEPHONE NUMBER									
NAME Richard P. Pulec - Plant Technical Supervisor												AREA CODE 4 1 4 3 8 8 - 2 5 6 0									
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											
SUPPLEMENTAL REPORT EXPECTED (14)										EXPECTED SUBMISSION DATE (15)		MONTH	DAY	YEAR							
X YES (If yes, complete EXPECTED SUBMISSION DATE)										NO		1	2	1 6 8 5							

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

On June 17, 1985, Fluor Engineers, Inc. notified Wisconsin Public Service Corporation that the seismic qualification of the emergency diesel generator differential relays could not be conclusively determined. The relays are General Electric Model 12CFD22B1A.

With this information and additional details provided in INPO SER 18-84 Supplement 1, "Diesel Generator Differential Relays Not Seismically Qualified", a management decision was made to defeat the differential relays' trip function. This was completed by 1600 on June 17, 1985.

The long term resolution of this discrepancy is being evaluated, and details will be provided in a supplemental report.

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## LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED OMB NO. 3150-0104

EXPIRES 8/31/85

FACILITY NAME (1)  Kewaunee Nuclear Power Plant	DOCKET NUMBER (2)  0 5 0 0 0 3 0 5 8 5	LER NUMBER (6)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
		8 5	0 1 5	0 0	0 2	OF	0 2

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

On June 17, 1985 with the plant at full power operation, Fluor Engineers, Inc. notified Wisconsin Public Service Corporation that the seismic qualification of the emergency diesel generator (EK) (DG) differential relays (87) [General Electric Model 12CFD22B1A] could not be conclusively determined.

Although laboratory reports are available documenting the seismic force test performed on a diesel generator control and excitation cabinet, insufficient detail is provided to confirm the differential relays were in the cabinet at the time of vibration table testing or that the relays were monitored for spurious operation.

Fluor Engineers, Inc. was formerly Pioneer Service and Engineering, architect-engineer for Kewaunee Nuclear Power Plant. A review of the seismic qualification of the differential relays was requested during the evaluation of INPO Significant Event Report [SER] 18-84, Supplement 1, "Diesel Generator Differential Relays Not Seismically Qualified". The SER states that the relay manufacturer does not recommend the Model 12CFD22B1A relays for seismic service and relays similar to this model have failed to meet seismic testing criterion.

Improper operation of the differential relays could result in the lockout of the tie breaker (BKR) between the diesel generator and its safeguard electrical bus (BU). This would inhibit diesel generator loading of the bus until the lockout is reset at the local station. During a seismic event improper operation of the relays has the potential to render both diesel generators inoperable except from the local station.

Notwithstanding the relatively low design basis seismic criteria for the plant and correspondingly low probability of a seismic event at the plant site, based on the available information a management decision was made to defeat the differential relays' trip function. This was completed as a temporary plant design change by 1600 on June 17, 1985.

Communications with the diesel generator manufacturer and testing laboratory are continuing to determine if additional information is available to support seismic qualification of the relays. Alternate relays with proper qualification are also being evaluated for installation should the present relays' seismic qualification remain inconclusive. Current plans are to return the differential relays to service during planned diesel generator testing for generator protection. A supplemental report will be provided following the final resolution of this event.

**WISCONSIN PUBLIC SERVICE CORPORATION**

P.O. Box 19002, Green Bay, WI 54307-9002



July 17, 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 85-015-00

In accordance with the requirements of 10 CFR 50.73, "Licensee Event Report System", the attached Licensee Event Report for reportable occurrence 85-015-00 is being submitted.

Very truly yours,

A handwritten signature in dark ink, appearing to read "DCH".

D. C. Hintz  
Manager - Nuclear Power

GWH/js

Attach.

cc - INPO Records Center

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