

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) Point Beach Unit 1	DOCKET NUMBER (2) 0 5 0 0 0 2 6 6	PAGE (3) 1 OF 0 2
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TITLE (4) Location of Spent Fuel Assembly Next to Spent Fuel Pool Wall

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	7	2	6	8	5	8	5	0	0	0	8	2	6	8	5	0	5	0	0	0

OPERATING MODE (9)	THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR § (Check one or more of the following) (11)																			
	20.402(b)					20.405(c)					50.73(a)(2)(iv)					73.71(b)				
	20.405(a)(1)(i)					50.36(c)(1)					50.73(a)(2)(v)					73.71(c)				
	20.405(a)(1)(ii)					50.36(c)(2)					50.73(a)(2)(vii)					OTHER (Specify in Abstract below and in Text, NRC Form 366A)				
	20.405(a)(1)(iii)					50.73(a)(2)(i)					50.73(a)(2)(viii)(A)									
20.405(a)(1)(iv)					50.73(a)(2)(ii)					50.73(a)(2)(viii)(B)										
20.405(a)(1)(v)					50.73(a)(2)(iii)					50.73(a)(2)(ix)										

LICENSEE CONTACT FOR THIS LER (12)														
NAME C. W. Fay, Vice President-Nuclear Power										TELEPHONE NUMBER AREA CODE 4 1 1 4 2 7 7 1 - 1 2 8 1 1 1				

COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)														
CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPDs	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPDs	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPDs

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 July 26, 1985, during a Quality Assurance audit of the spent fuel pool records, it was determined that three spent fuel assemblies subcritical for less than one year had been stored next to the east spent fuel pool wall. This is contrary to Technical Specification 15.5.4.4. Assemblies K09, K11 and K28 were moved to the wall on February 7, 1984. Each assembly had last been critical on October 1, 1983. They had been subcritical for four months. Gamma heating effects calculations were performed to verify that no adverse effects to the spent fuel pool wall have occurred.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

APPROVED OMB NO. 3150-0104

EXPIRES: 8/31/85

FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6)			PAGE (3)	
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER		
Point Beach Unit 1	0 5 0 0 0 2 6 6	8 5	- 0 0 5	- 0 0	0 2	OF 0 2

TEXT (If more space is required, use additional NRC Form 366A's) (17)

During a Quality Assurance audit of the Point Beach Nuclear Plant spent fuel pool records, three spent fuel assemblies (K09, K11, K28) were identified as being in storage locations adjacent to the east wall of the spent fuel pool. These assemblies had been moved to their present locations on February 7, 1984. All of these assemblies had last been critical on October 1, 1983. Each fuel assembly was originally moved on October 8, 1983 to locations in the spent fuel pool which were not adjacent to a wall as part of the unloading of the Unit 1 core.

During early February of 1984, the core for Unit 1 was redesigned for the April 1984 reload. This redesign included using some of the spent fuel assemblies that had been out of the core for a number of years and excluded a number of fuel assemblies that had just been in the core during the last cycle. Three assemblies for the new core design came from spent fuel rack positions next to the east wall. During the relocation of fuel assemblies to the area of the spent fuel pool being used for fuel insert changes, the recently unloaded fuel assemblies (K09, K11 and K28) were relocated to vacated rack positions (SA-69, SA-65 and SA-63 respectively) next to the east wall.

Since these assemblies have now been subcritical for more than one year, they need not be moved. Reactor Engineering Instruction 24.0 already includes in its discussion the fact that Technical Specification 15.5.4.4 does not allow spent fuel assemblies which have been subcritical for less than one year to be located next to the spent fuel pool wall. To further enforce this, the fuel transfer authorization (form RE-T1) will be revised to explicitly state that fuel movements to be performed be checked to ensure that they comply with this limitation. This form change will be completed by January 1, 1986.

The original spent fuel pool designer, Bechtel Power Corporation, has analyzed the effects on the structural integrity of the east wall of the south spent fuel pool due to the thermal load from the storage of fuel assemblies K09, K11 and K28 adjacent to the pool wall. It was determined that the gamma heating would produce a maximum temperature increase of 37°F across the wall. The calculated corresponding stress values are well within the elastic limits for the wall. The thermal load increase was insufficient to cause any material properties deterioration of the spent fuel pool wall. The analysis concludes that the fuel pool walls did not incur any structural damage or reduction of capacity for carrying present and future loads.



Wisconsin Electric POWER COMPANY
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August 26, 1985

VPNPD-85-283
NRC-85-94

Mr. J. G. Keppler, Regional Administrator
Office of Inspection and Enforcement,
Region III
U. S. NUCLEAR REGULATORY COMMISSION
799 Roosevelt Road
Glen Ellyn, Illinois 60137

Dear Mr. Keppler:

DOCKET NO. 50-266
LICENSEE EVENT REPORT NO. 85-005-00
SPENT FUEL ASSEMBLY STORAGE
POINT BEACH NUCLEAR PLANT, UNIT 1

Enclosed is Licensee Event Report No. 85-005-00 for the Point Beach Nuclear Plant, Unit 1. This report provides a description of an incident involving the improper storage of three spent fuel assemblies in storage rack positions adjacent to the spent fuel pool wall. This event is reportable in accordance with 10 CFR 50.73(a)(2)(i)(B), "Any operation or condition prohibited by the plant's Technical Specifications".

Very truly yours,

Vice President-Nuclear Power

C. W. Fay

Copy to NRC Resident Inspector

AUG 27 1985

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