

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

FACILITY NAME (1) Oyster Creek, Unit 1	DOCKET NUMBER (2) 0 5 0 0 0 2 1 9 8 4	LER NUMBER (8)			PAGE (3)	
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER		
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TEXT (if more space is required, use additional NRC Form 388A's) (17)

DATE OF OCCURRENCE:

The event was identified on May 10, 1984.

IDENTIFICATION OF OCCURRENCE:

During a review of a proposed modification to the existing spent fuel storage rack configuration, a question was raised as to whether or not the fuel pool gates are moved over spent fuel during their removal or replacement sequences. Although Operations representatives could not specifically cite any one particular instance of this, they believe that movement of the gates (each of which weighs approximately 1800 lbs.) over spent fuel may have occurred several times during past refueling operations.

is is considered to be reportable as defined in 10 CFR 50.73 (a)(2)(i).

DESCRIPTION OF OCCURRENCE:

In reviewing engineering and design documents for the spent fuel storage rack expansion modification, Technical Functions personnel contacted on-site Operations personnel in order to determine whether or not the fuel pool gates are moved over the spent fuel during refueling operations. Technical Functions concern was that each of the gates weighs approximately 1800 lbs., and that movement of these gates over the fuel is a violation of Technical Specification 5.3.1.D (the effective date for this Technical Specification is March 30, 1977). Although no specific instance of this could be cited by the Operations personnel, they acknowledged that it may have occurred on several occasions during past refueling cycles, but was never observed or noted.

APPARENT CAUSE OF OCCURRENCE:

In order to remove or replace the fuel pool gates from their in-service configuration, the station procedure requires that they be rigged to the 5-ton auxiliary hoist and moved to a staging location on the south wall of the fuel pool. The station procedure used for movement of these gates refers to the reactor building overhead crane operating procedure, with an emphasis for the personnel involved in the movement to be familiar with the precautions section of the crane operating procedure. The prerequisite section contains several paragraphs that strictly detail what loads (by weight) may or may not be lifted in the vicinity of irradiated fuel. However, the gate removal or replacement procedure does not specifically state the weight of the individual gates. It is possible that had the weight been stated, the gates would not have been moved over irradiated fuel in accordance with the crane operating procedure. It is also possible that the supervisory personnel present for the gate movements believed the weight of the gate to be less than the limiting weight of 485 lbs. stated in the procedure.

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ANALYSIS OF OCCURRENCE AND SAFETY ASSESSMENT:

The event of dropping the weight of one fuel assembly onto irradiated fuel has been analyzed and has shown that any rupturing of fuel pins would result in radiation doses less than those permitted by 10CFR100. The analysis for a load drop in excess of the weight of one fuel assembly has not been performed. Station procedures do, however, require that rigging and lifting of the fuel pool gates be done with extreme caution and an emphasis on proper attachment of the load to the hook and associated lifting components. Due to conservative industry standards regarding the rating and load testing of lifting and rigging components, the likelihood of a load drop is minimized.

Additionally, it is difficult to determine the extent of this Technical Specification violation. When moving the gates, Maintenance personnel move them away from the south wall of the fuel pool only far enough to clear obstructions suspended from the top edge of the fuel pool. Depending upon where fuel was stored in the racks at the time of the gate movement, there may or may not have been a Technical Specification violation.

CORRECTIVE ACTION:

Maintenance personnel involved in the removal and replacement of the fuel pool gates will be cautioned regarding adherence to station procedures involving the reactor building overhead crane. Additionally, the station procedure for the gate movements will be revised to specifically state that the gates may not pass over spent fuel. These revisions will provide the administrative assurance that irradiated fuel will be shuffled, and suspended equipment will be rearranged in appropriate combinations such as to prevent movement of the gates over spent fuel.



GPU Nuclear Corporation
Post Office Box 388
Route 9 South
Forked River, New Jersey 08731-0388
609 971-4000
Writer's Direct Dial Number:

June 8, 1984

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

Dear Sir:

Subject: Oyster Creek Nuclear Generating Station
Docket No. 50-219
Licensee Event Report

This letter forwards one (1) copy of Licensee Event Report (LER)
No. 84-010.

Very truly yours,

Peter B. Fiedler
Vice President and Director
Oyster Creek

PBF:dsm
Enclosures

cc: Dr. Thomas E. Murley, Administrator
Region I
U.S. Nuclear Regulatory Commission
631 Park Avenue
King of Prussia, PA 19406

NRC Resident Inspector
Oyster Creek Nuclear Generating Station
Forked River, NJ 08731

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LICENSEE EVENT REPORT (LER)

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TITLE (4)
Fuel Pool Gate Movement Above Irradiated Fuel

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 NAME(S)		DOCKET NUMBER(S)
05	10	84	84	010	00	06	08	84			0 5 0 0 0
											0 5 0 0 0

THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR 8: (Check one or more of the following) (11)

OPERATING MODE (9) N	20.402(b)	21.405(e)	80.73(a)(2)(iv)	73.71(b)
POWER LEVEL (10) 0 0 0	20.405(a)(1)(i)	80.38(e)(1)	80.73(a)(2)(v)	73.71(e)
	20.405(a)(1)(ii)	80.38(e)(2)	80.73(a)(2)(vi)	OTHER (Specify in Abstract below and in Text, NRC Form 366A)
20.405(a)(1)(iii)	<input checked="" type="checkbox"/> 80.73(a)(2)(i)	80.73(a)(2)(viii)(A)		
20.405(a)(1)(iv)	80.73(a)(2)(ii)	80.73(a)(2)(viii)(B)		
20.405(a)(1)(v)	80.73(a)(2)(iii)	80.73(a)(2)(ix)		

LICENSEE CONTACT FOR THIS LER (12)

NAME D.M. Fanok	TELEPHONE NUMBER
	AREA CODE: 609 NUMBER: 971-4860

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

CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPRDS	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPRDS

SUPPLEMENTAL REPORT EXPECTED (14)

YES (If yes, complete EXPECTED SUBMISSION DATE) NO

EXPECTED SUBMISSION DATE (15)

MONTH	DAY	YEAR

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

ABSTRACT:

For an undetermined number of iterations the fuel pool gates have been moved over irradiated fuel bundles in the fuel pool. This violates the Technical Specification requiring that no object in excess of the weight of one fuel assembly (approximately 485 lbs.) be moved over stored irradiated fuel. The handling procedure for the fuel pool gates will be revised to prevent lifting the gates above irradiated fuel. Additionally, maintenance personnel will be instructed further as to the restrictions for movement of the fuel pool gates.