

To:

James P. O'Reilly  
Directorate of Regulatory Operations  
Region I  
631 Park Avenue  
King of Prussia, Pennsylvania 19406

From:

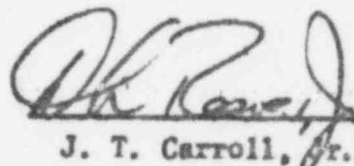
Jersey Central Power & Light Company  
Oyster Creek Nuclear Generating Station  
Docket #50-219  
Forked River, New Jersey 08731

Subject:

Abnormal Occurrence Report No. 50-219/74/45

The following is a preliminary report being submitted  
in compliance with the Technical Specifications,  
paragraph 6.6.2.

Preliminary Approval:

 8/26/74  
J. T. Carroll, Jr. Date

cc: Mr. A. Giambusso

Initial Telephone

Report Date: 8/26/74

Date of

Occurrence: 8/24/74

Initial Written

Report Date: 8/26/74

Time of

Occurrence: 1100

OYSTER CREEK NUCLEAR GENERATING STATION  
FORKED RIVER, NEW JERSEY 08731

Abnormal Occurrence  
Report No. 50-219/74/ 45

IDENTIFICATION  
OF OCCURRENCE:

This event is considered a violation of the commitment to follow the MAPLHGR limits as submitted on August 5, 1974, subsequently submitted as a change to the Technical Specifications, Section 3.10, on August 22, 1974.

This event is considered to be an abnormal occurrence as defined in the Technical Specifications, paragraph 1.15B.

CONDITIONS PRIOR  
TO OCCURRENCE:

<input type="checkbox"/> Steady State Power	<input type="checkbox"/> Routine Shutdown
<input type="checkbox"/> Hot Standby	<input type="checkbox"/> Operation
<input type="checkbox"/> Cold Shutdown	<input checked="" type="checkbox"/> Lead Changes During
<input type="checkbox"/> Refueling Shutdown	<input type="checkbox"/> Routine Power Operation
<input type="checkbox"/> Routine Startup	<input type="checkbox"/> Other (Specify)
<input type="checkbox"/> Operation	

Power: Reactor, 1910.7 MWt  
Electric, 644 MWe  
Flow: Recirc.,  $15.3 \times 10^4$  gpm  
Feed.,  $7.14 \times 10^6$  lb/hr  
Stack Gas: 11,200  $\mu$ Cl/sec

DESCRIPTION  
OF OCCURRENCE:

Following a load reduction commencing at 2200, August 23, 1974, for MSIV Full Closure Tests and subsequent load increase commencing at 0245 on August 24, 1974, completed at 0900, the reactor was operating at essentially rated power (1910.7 MWt and 644 MWe). From approximately 0915 to 1115, while at rated power, the xenon transient initiated by the load reduction and subsequent increase caused the MAPLHGR limit for the Type II

*Fuel*  
Fuel assemblies located at Core Coordinates 37-38, 37-16, 16-16 and 16-38 to be exceeded.

APPARENT CAUSE  
OF OCCURRENCE:

\_\_\_\_ Design  
\_\_\_\_ Manufacture  
\_\_\_\_ Installation/  
\_\_\_\_ Construction  
x Operator

*its limits*  
\_\_\_\_ Procedure  
\_\_\_\_ Unusual Service Condition  
\_\_\_\_ Inc. Environmental  
\_\_\_\_ Component Failure  
\_\_\_\_ Other (Specify)

When the MAPLHGR for Type II fuel was checked at 0915 and found to be at 97.8% of its limit, control of the APLHGR was attempted by inserting several groups of control rods. However, at 1100 when the MAPLHGR for Type II fuel was again checked, it was found that the control rods had not effectively controlled the APLHGR for Type II fuel. Recirculation flow, and thus reactor power, was subsequently decreased to reestablish the MAPLHGR for Type II fuel below its limit, as verified at 1115.

<u>Time of MAPLHGR Check</u>	<u>APLHGR Calculated</u>	<u>Limit</u>	<u>% of Limit</u>
0915	11.91	12.18	97.8%
1100	12.29	12.18	100.9%
1115	10.76	12.18	88.4%

ANALYSIS OF  
OCCURRENCE:

In the event of a Loss of Coolant Accident (LOCA), the Type II fuel assemblies located at Core Coordinates 37-38 and its quarter core symmetric locations may have exceeded the 2200°F peak clad temperature and 17% local metal/water reaction limit as determined in accordance with 10CFR50, Appendix K, calculated using a preliminary General Electric blowdown analysis.

The significance of this event was minimized by the small extent of the limit excess and by the relatively short time duration of its existence, approximately one to two hours maximum.

**CORRECTIVE  
ACTION:**

The cognizant personnel were notified (as specified in Standing Order No. 18) and the reactor power was reduced by recirculation flow to the point where no MAPLHCR limits were violated (1770 MWt, 595 MWe). This power level was maintained for six hours, then a gradual power increase to rated was effected.

**FAILURE DATA:**

Not applicable.

Prepared by:

Ronald M. Brought

Date:

8/26/74