


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. 50-219/74/4

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

Preliminary Approval:

-1/16/74  
J. T. Carroll, Jr. Date

cc: Mr. A. Ciambusso

B1669

Initial Written  
Report Date: 1/16/74

Time of  
Occurrence: 0845

OYSTER CREEK NUCLEAR GENERATING STATION  
FORKED RIVER, NEW JERSEY 08731

Abnormal Occurrence  
Report No. 50-219/74/ 4

IDENTIFICATION  
OF OCCURRENCE:

Violation of the Technical Specifications, paragraph N/A,  
Failure of Main Steam Isolation Valve NS03B to close upon  
receiving a manual signal to close.

This event is considered to be an abnormal occurrence as de-  
fined in the Technical Specifications, paragraph 1.15E.

CONDITIONS PRIOR  
TO OCCURRENCE:

<input type="checkbox"/> Steady State Power	<input checked="" type="checkbox"/> Routine Shutdown
<input type="checkbox"/> Hot Standby	<input type="checkbox"/> Operation
<input type="checkbox"/> Cold Shutdown	<input type="checkbox"/> Load 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	

The reactor was in the shutdown condition with the mode switch  
in refuel. Reactor coolant temperature was less than 212°F  
with the reactor head vented.

DESCRIPTION  
OF OCCURRENCE:

In order to minimize airborne radioactivity in the drywell,  
a negative pressure was impressed on the reactor vessel via  
the mechanical vacuum pump through Main Steam Isolation Valves  
NS03B and NS04B. At this time, a complete inspection and  
cleaning of the "spool" valves used in the control scheme for  
Main Steam Isolation Valves NS03A and NS04A was in progress  
which necessitated these valves being closed. After the in-  
spection/cleaning was completed, steps were taken to open

8163040625 3pp.

these valves and close valves NS03B and NS04B so that the same preventive maintenance steps could be performed on their associated spool valves. When the close signal was impressed on NS03B, the valve did not respond. Subsequent attempts were made to close the valve and on the third try the valve closed. An operator located in the drywell noted that the solenoid valve which operates the power valve was functioning properly.

It should be noted that this valve had previously been given a closure signal on January 11, 1974 during the plant shutdown at approximately 270 MWe and again on January 13, 1974 in preparation for a MSIV leak rate test. In both of these cases, valve operation was satisfactory.

APPARENT CAUSE  
OF OCCURRENCE:

<input type="checkbox"/> Design	<input type="checkbox"/> Procedure
<input type="checkbox"/> Manufacture	<input type="checkbox"/> Unusual Service Condition
<input type="checkbox"/> Installation/ Construction	<input type="checkbox"/> Inc. Environmental
<input type="checkbox"/> Operator	<input type="checkbox"/> Component Failure
	<input type="checkbox"/> Other (Specify)

The cause of this event is under investigation at this time. It should be noted that this valve (NS03B) operator is connected to the nitrogen system during power operation. While shutdown, the valve operators of the two MSIV's inside the drywell are switched over to the station air system when the drywell is purged and open for access. It is possible that dust in the air line (dead-ended during power operation) had become lodged in the air ports of the valve operator during the switchover from nitrogen to air.

ANALYSIS OF  
OCCURRENCE:

The Main Steam Isolation Valves are intended to provide a means of minimizing fission product release under design basis conditions. Since the redundant valve NS04B closed in the proper manner, this function would have been performed. This consideration is only important had the valve failed to close while at power operation. Since the plant was in cold shut-down, the safety significance of this particular event is considered minimal.

CORRECTIVE  
ACTION:

The spool valve was disassembled, inspected and cleaned. The valve spool assembly was observed to operate freely after re-assembly.

FAILURE DATA:

Manufacturer: Numatics Inc. - Valve Division  
Type: Pilot Operated Power Valve  
Model: Print Reference No. 91746U and modified  
by General Electric Company FDI #322/91700.

Prepared by:

Arthur H. Rose

Date:

1/16/74