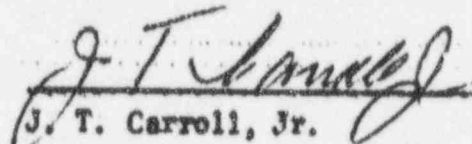


To: James P. O'Reilly
Directorate of Regulatory Operations
Region I
631 Park Avenue
King of Prussia, Pennsylvania 19406

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

Subject: The following report is being submitted for
your information as per phone conversation
of April 25, 1974.

Very truly yours,


J. T. Carroll, Jr. 4/25/74
Date

cc: Mr. A. Giambusso

B/S/66

Initial Written
Report Date:

4/27/74

Time of
Occurrence:

1100

OYSTER CREEK NUCLEAR GENERATING STATION
FORKED RIVER, NEW JERSEY 08731

IDENTIFICATION
OF OCCURRENCE:

Cracking of torus to drywell vacuum breaker valve V-26-2 disc at junction of disc body and stem. This failure completely separated the stem from the disc body and would have rendered the vacuum breaker valve inoperative had it occurred under normal operating conditions.

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

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 type="checkbox"/>	Load Changes During
<input checked="" 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 mode switch was in the REFUEL position and reactor coolant temperature was approximately 103°F.

DESCRIPTION
OF OCCURRENCE:

At approximately 1100 on April 24, 1974, while contractor personnel were disassembling torus to drywell vacuum breaker valve V-26-2 for inspection and maintenance work, the valve disc cracked at the junction of the disc body and stem. The disc body and stem are made of cast aluminum and cast as one piece. This failure completely separated the stem from the disc body. At the time of the failure, the contractor

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personnel were tapping the associated disc nut in an effort to free and ultimately remove the nut from the disc stem. This tapping was also used to free disc nuts on nine previously disassembled torus to drywell vacuum breaker valves.

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 Component Failure
<input type="checkbox"/> Operator	<input type="checkbox"/> Other (Specify)

Initial visual examination of the crack surfaces revealed that most of this area was clean. However, some darkened (dirty) areas were observed around the edges of the crack surfaces. This would indicate that the cracking started sometime before the complete disc failure on April 24, 1974. The apparent cause of this occurrence is under investigation at this time.

ANALYSIS OF
OCCURRENCE:

This valve disc failure is considered to have minimal safety significance. Although the valve (V-26-2) would have been rendered inoperative had the failure occurred under normal operating conditions, the applicable requirements for torus to drywell vacuum breaker valve operability specified in paragraph 3.5.A.3 of the Technical Specifications would have been satisfied. However, the drywell-torus vacuum breaker valves are also required to be closed during pipe break accidents (particularly small breaks) to assure proper steam condensation and prevent torus overpressure. The safety significance of this event is that valve V-26-2 might not have performed this function had the disc failure occurred

during normal operating conditions and the disc been subsequently removed from its seat (by torus overpressure, weekly operability testing, etc.).

**CORRECTIVE
ACTION:**

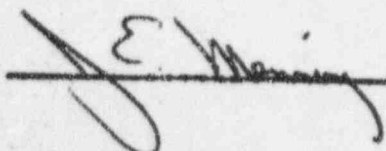
The discs of the other thirteen torus to drywell vacuum breaker valves will be inspected for cracking in the area of the disc body-stem junction. Additional items of corrective action will be determined following review of this incident by the Plant Operations Review Committee.

FAILURE DATA:

Basic valve data are as follows:

Manufacturer: Atwood & Morrill
Type: Check Valve
Disc Material: Cast Aluminum
Vent Area: 1.75 square feet per valve

Prepared by:



Date:

4/25/74