#### LICENSEE EVENT REPORT

		LICENSEE EVENT REPORT
		CONTROL BLOCK:                       (PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)
Ç	0.1	NI J O C P 1 2 0 0 1 - 10 10 10 10 10 10 10 3 4 1 1 1 1 1 4 1 57 CAT 58
-	O I	REPORT L 6 0 5 0 0 0 2 1 19 7 1 12 1 18 18 10 10 11 11 16 18 11 9 50 ACKET NUMBER 58 59 EVENT DATE 74 75 REPORT DATE 80 EVENT DESCRIPTION AND PROBABLE CONSEQUENCES 10
[	0 2	Limiting condition for operation per T.S. 3.4.D when CRD pump NC08A
0	0 3	failed in service during normal plant operation. This event is report-
	0 4	able under T.S. 6.9.2.b(2). The redundant pump was immediately started
(	0 5	and remained in operation while repairs on the "A" pump were completed.
i	0 16	There were no adverse effects on the public health or safety.
	0 17	
i	013	
ļ	0   9	SYSTEM CAUSE CAUSE COMPONENT CODE SUSCODE SUSC
	1 0	The cause was due to a failure of the pump shaft outboard of the
-	1 1	balancing disc. The pump internals and the pump motor were replaced. The
1	1   2	pump will be inspected by the manufacturer to determine the cause of the
i	1 3	shaft failure.
1	1 4	<u>L</u>
[		ACILITY SPOWER OTHER STATUS 30 METHOD OF DISCOVERY DESCRIPTION 32 DISCO
[		CTIVITY CONTENT ELEASED OF RELEASE AMOUNT OF ACTIVITY 35    Z   33   Z   34   NA   NA    PERSONNEL EXPOSURES  AMOUNT OF ACTIVITY 35  NA 45
	1 7	NUMBER TYPE DESCRIPTION (39)
7	•	PERSONNEL INJURIES NUMBER DESCRIPTION 41
-	1 3	0 0 0 0 0 NA
		TYPE DESCRIPTION 43
[	1 9	9 10
,	2/0	PUBLICITY SSUED DESCRIPTION 45
ָבָּ בְּי	2/0	PUBLICITY SSUED DESCRIPTION 45

## OYSTER CREEK NUCLEAR GENERATING STATION Forked River, New Jersey 08731

Licensee Event Report Reportable Occurrence No. 50-219/80-62/3L

## Report Date

January 16, 1981

#### Occurrence Date

December 18, 1980

## Identification of Occurrence

Operation in a degraded mode permitted by a limiting condition for operation per Technical Specifications, section 3.4.D.2 when Control Rod Drive (CRD) Hydraulic Pump NCO8A failed in service.

This event is considered to be a reportable occurrence as defined in the Technical Specifications, paragraph 6.9.2.b(2).

## Conditions Prior to Occurrence

The plant was operating at steady state. Major plant parameters at the time of occurrence were:

Power:

Core

1837 MWt

Electrical

610 MWe

Flow:

Recirculation 15.5 x 10<sup>4</sup> gpm Feedwater 6.8 x 10<sup>6</sup> lb/hr

## Description of Occurrence

On Thursday, December 18, 1980, at about 1900 hours the operating Control Rod Drive Hydraulic Pump (NCOSA) failed as indicated by alarms and decreasing pressure indications in the control room. The operators immediately started the standby CRD pump and stopped the "A" pump which restored the system to normal.

Visual inspection initially indicated that the motor for the "A" CRD pump had failed. The pump was isolated and tagged out of service.

# Apparent Cause of Occurrence

The failure was caused by the complete break of the pump shaft outboard of the balancing disc. This in turn also caused the motor to overheat due to excessive load. The cause of the pump shaft failure has not been determined yet, however, the most probable cause was loosening of the thrust bearing alignment pins.

Reportable Occurrence Report No. 50-219/80-62/3L

## Analysis of Occurrence

In addition to supplying control rod drive cooling and accumulator charging pressure, the control rod drive hydraulic system also has the capability to provide high pressure coolant injection. For pipe break sizes up to 0.002 ft.<sup>2</sup>, the flow from a single control rod drive pump is adequate for maintaining the reactor vessel water level nearly five feet above the core, thus alleviating need for auto-relief actuation. Considering that the redundant pump remained operable while repairs were made the safety significance is considered minimal.

#### Corrective Action

After the pump was removed from service further investigation revealed that the pump shaft had failed at a point outboard of the balancing disc. There was no other evidence of damage other than material being removed from the wear rings. The pump motor was also removed for inspection, cleaned and reinsulated. Megger readings were taken and indicated near infinite resistance. The pump was reassembled with all new components and the motor was reinstalled on December 22, 1980. The pump was started and ran for five hours when the pump tripped on overload. The standby pump was placed in service and the "A" pump motor was again inspected. Megger readings were taken and indicated zero resistance to ground. The motor was then replaced with a spare.

At about 0100 hours on December 24, 1980 the pump was returned to service after completion of an operability check.

#### Failure Data

Pump Worthington Pump Corp. Type 2WIF810 Diffuse type centrifugal pump Serial #1613735

Motor General Electric Custom 8000 Horizontal Induction Motor