

OYSTER CREEK NUCLEAR GENERATING STATION

Forked River, New Jersey 08731

Nonroutine Environmental Operating Report No. 50-219 83-3-1

Report Date

February 14, 1983

Occurrence Date

January 23, 1983

Identification of Occurrence

Exceeding a limiting condition as defined in the Environmental Technical Specifications, paragraph 2.1.4.3 -- less than two dilution pumps were operating for greater than 15 minutes, and ambient water temperature was less than 60°F.

This event is considered to be a Nonroutine Environmental Report as defined in the Technical Specifications, Appendix "B", Paragraph 5.6.2.

Conditions Prior to Occurrence

Dilution Pump Flow 5.20 E5 GPM

Circulating Water Pump Flow 3.45 E5 GPM

Prior to the occurrence, the ambient water temperature in the intake canal was 32.3°F. The condenser discharge water temperature was 49.8°F, and the U.S. Route 9 Discharge bridge temperature was 36.2°F.

Description of Occurrence

At 1044 hours on 23 January, dilution pumps 1-2 and 1-3 tripped off leaving no dilution pumps in service.

Apparent Cause of Occurrence

A power cable failure to the main breaker of the dilution pumps caused the shutdown of dilution pumps 1-2 and 1-3. Specifically, electrical terminations (stress cones) failed in the system.

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#### Analysis of Occurrence

The continuous operation of the dilution pumps is required to maintain water temperatures within the specified limiting conditions. The objective of operating the dilution pumps in the prescribed manner is to minimize the occurrence of adverse biological effects in Oyster Creek and contiguous water. There were no harmful marine biological effects observed during the period when an insufficient number of dilution pumps operated.

#### Corrective Action

Corrective action involved replacing the electrical terminations in the power cable to the main breaker and restarting dilution pumps 1-2 and 1-3 on January 30, 1983 at 1246 hours.

Long term action, per a submittal to the Nuclear Regulatory Commission on July 1, 1981, involves a total dilution pump refurbishment program designed to improve the reliability and operability of the pumps. This includes upgrading of the dilution pump seal water and lubricating oil cooling water systems, pipe line strainers, pipe and heat tracing and overhaul of dilution pumps.