

OYSTER CREEK NUCLEAR GENERATING STATION

Forked River, New Jersey 08731

Nonroutine Environmental Operating Report No. 50-219 83-2-1

Report Date

February 14, 1983

Occurrence Date

January 18, 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 34.8°F. The condenser discharge water temperature was 46.7°F, and the U.S. Route 9 Discharge bridge temperature was 34.7°F.

Description of Occurrence

At 1040 hours on 18 January, dilution pump 1-1 was removed from service, leaving only dilution pump 1-3 in operation. Dilution pump 1-1 was returned to service at 1057 hours.

Apparent Cause of Occurrence

Dilution pump 1-1 was removed from service because a flax packing gland was steaming around a shaft of the dilution pump at the water box end. However, upon further investigation the flax packing gland was determined to be in good working condition. The steam was apparently caused by wearing in of the new packing. Due to the time involved in making a determination a second dilution pump was not put into operation within the specified time. Dilution pump 1-2 was not immediately started as the operator expected to restart pump 1-1 within the 15 minute requirement.

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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

Immediate corrective action involved restarting dilution pump 1-1.

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.