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OYSTER CREEK NUCLEAR GENERATING STATION
Forked River, New Jersey 08731

Nonroutine Environmental Operating Report No. 50-219/79-8

Report Date

January 7, 1980

Occurrence Date

December 28, 1979

Identification of Occurrence

Exceeding a limiting condition as defined in the Environmental Technical Specifications, paragraph 2.1.4.3, when only one (1) dilution pump was operating for a period of five (5) minutes, out of compliance with Appendix "B" of the Technical Specifications.

This event is considered to be a non-routine environmental operating report as defined in the Technical Specifications, Appendix "B", paragraph 5.6.2.

Conditions Prior to Occurrence

The plant was operating at steady state power.

Power:	Reactor, 1657 Mwt
	Electrical, 570 Mwe
Dilution Pump Flow:	5.2×10^5 gpm
Circulating Pump Flow:	4.6×10^5 gpm

Prior to the occurrence, the temperature in Oyster Creek as measured at the U.S. Route 9 bridge was 48.5°F. Two dilution pumps were in operation, one dilution pump was being held in reserve. The intake temperature was 38.7°F. and the discharge temperature was 58.3°F.

Description of Occurrence

Dilution pump 1-2 tripped at 1404 hours, apparently due to low seal water pressure. Pump 1-1 continued to operate. A restart of 1-2 pump failed. Starting and tripping switching was reset, lube oil pressure was restored, and dilution pump 1-2 was restarted at 1424 hours. Seal water pressure was maintained. For 20 minutes, only one dilution pump was in operation. The discharge temperature, as measured at the U.S. Route 9 bridge, was 48.5°F at 1400 hours, 52.0°F at 1445 hours, and 49.1°F at 1500 hours.

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8001140 286

Apparent Cause of Occurrence

The cause of the trip was momentary low seal water pressure. In attempting to restart the 1-2 pump, its auxiliary oil pump was accidentally tripped. This caused delay in restarting the 1-2 pump.

Analysis of Occurrence

Continuous operation of two (2) dilution pumps when the intake temperature is below 60°F is intended to reduce the number of fish attracted to the discharge canal. This pump operation will encourage fish to migrate south rather than remain in the discharge canal during the winter.

One (1) dilution pump was out of operation for 20 minutes, which resulted in a temperature increase of 3.5°F as measured in Oyster Creek at the U.S. Route 9 bridge. Minimal adverse biological effects accompanied this temperature transient.

Corrective Action

The lube oil starting and tripping switching was reset, lube oil pressure was restored, seal water pressure was maintained, and dilution pump 1-2 was restarted. An engineering request for upgrading the dilution pump seal water system had been previously submitted to provide for a permanent fix.

Failure Data

Not applicable

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