



GPU Nuclear

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March 23, 1983

Mr. Ronald C. Haynes, Administrator
Region I
U.S. Nuclear Regulatory Commission
631 Park Avenue
King of Prussia, PA 19406

Dear Mr. Haynes:

Subject: Oyster Creek Nuclear Generating Station
Docket No. 50-219
Nonroutine Environmental Operating Report
No. 83-4

This submittal forwards two copies of the subject Nonroutine Environmental Operating Report in accordance with the OCNGS Technical Specifications, Appendix B, paragraph 5.6.2. Please note that this report is being submitted past the thirty day limitation as a result of the need to further investigate this matter.

Very truly yours,

Peter B. Fiedler
Vice President and Director
Oyster Creek

PBF:jal

cc: Director (17 copies)
Office of Nuclear Reactor Regulations
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

N.J. Bureau of Radiation Protection
Attention: Chief
Division of Environmental Quality
United Sierra Building
380 Scotch Road
West Trenton, NJ 08625

NRC Resident Inspector
Oyster Creek Nuclear Generating Station
Forked River, NJ 08731

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OYSTER CREEK NUCLEAR GENERATING STATION

Forked River, New Jersey 08731

Nonroutine Environmental Operating Report No. 50-219 83-4

Report Date

March 23, 1983

Occurrence Date

February 11, 1983

Identification of Occurrence

Violation of Paragraph 2.1.5 in the Environmental Technical Specifications entitled Rate of Change of Discharge Canal Temperature During Winter Shutdowns. One dilution pump remained in service during a controlled reactor shutdown of the station when the intake canal water temperature was less than 10.0°C (50.0°F) and the station operated at less than 70% of full rated power.

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 2.60 E5 GPM

Circulating Water Pump Flow 3.45 E5 GPM

Prior to the occurrence, the ambient water temperature in the intake canal was 30.2°F. The condenser discharge water temperature was 41.1°F, and the U.S. Route 9 Discharge bridge temperature was 34.6°F.

Description of Occurrence

A controlled reactor shutdown of the station commenced at 1300 hours on 11 February 1983, with the station operating at a thermal power of 754 MWT and a generator load of 227 MWe. At this time, dilution pump 1-1 remained in service with the intake canal water temperature below 10.0°C (50.0°F). Dilution pump 1-1 was removed from service at 0012 hours on 12 February 1983.

Apparent Cause of Occurrence

Procedure 324 Thermal Dilution Pumps (Section 3.0 Plant Operating Requirements; Paragraph 3.3) specifies the requirements for operating the dilution pumps during a controlled reactor shutdown. However, station personnel failed to follow the requirements of the procedure by leaving dilution pump 1-1 in service during the shutdown.

Analysis of Occurrence

The shutdown of dilution pumps is required during controlled shutdowns in the winter when the first circulating pump is turned off or when 70% of full rated power is reached (whichever comes first). The objective of operating the dilution pumps in the prescribed manner is to minimize thermal stress to aquatic organisms in Oyster Creek and contiguous waters due to sudden changes in water temperature. There were no harmful biological effects observed from 1300 hours on 11 February 1983 to 0012 hours on 12 February 1983 when dilution pump 1-1 continued to operate during the controlled reactor shutdown.

Corrective Action

Procedure 324 Thermal Dilution Pumps (Section 3.0 Plant Operating Requirements) addresses shutdowns for power levels greater than 70% power. This procedure will be revised to provide more explicit directions for dilution pump operation during shutdowns. These directions will encompass all operating power levels to account for shutdowns from power levels less than 70% as recently occurred.