

Regulatory

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NIAGARA MOHAWK POWER CORPORATION

NIAGARA  MOHAWK

300 ERIE BOULEVARD WEST  
SYRACUSE, N. Y. 13202

EO-220

September 20, 1974

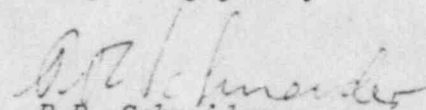
Mr. Donald J. Skovholt  
Assistant Director for Reactor Operations  
Division of Reactor Licensing  
United States Atomic Energy Commission  
Washington, D.C. 20545



Dear Mr. Skovholt:

In accordance with Technical Specifications 1.13d for Nine Mile Point Unit 1, the enclosed Abnormal Occurrence Report is submitted. This report is in accordance with the format set forth in Regulatory Guideline 1.16. This occurrence was reported to RO:I on September 18, 1974.

Very truly yours,



R.R. Schneider  
Vice President - Electric Operations

TJD:mmm



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ABNORMAL OCCURRENCE REPORT

50-220

Report No.

74-13

Date

September 18, 1974

Occurrence Date

September 18, 1974

Facility

Nine Mile Point Unit 1

Identification of Occurrence

Inoperable containment spray pump #122.

Conditions Prior to Occurrence

Unit #1 at steady state 98% power.

Description of Occurrence

During routine testing following a recalibration of the flow transmitter on September 17, 1974, the performance of containment spray pump #122 was found to have varied from previously expected performance. The three redundant pumps showed expected performance. The pump curve for containment spray pump #122 sets design flow at 3000 gpm at a pump developed head of 375 ft. at 60°F. The test data indicated the required developed head but the flow indication was approximately 2600 gpm. The pump was taken out of service and the required surveillance performed on the redundant pump. Technical Specification 3.3.7.b provides 15 days to return the effected pump to service provided the additional surveillance is performed. Specification 3.3.7.b was satisfied, therefore, fulfilling the L.C.O. The pump was disassembled and a piece of wood was found wedged in the "eye" of the pump thus limiting its performance. Therefore, requiring the reporting of an abnormal occurrence pursuant to Technical Specification 1.13d.

Designation of Apparent Cause of the Occurrence

Restricted suction flow caused by foreign object. (1 3/4" x 5 1/4" x 3 1/4" piece of wood)

Analysis of Occurrence

Operation of only one containment spray pump is sufficient to remove post accident core energy releases including a substantial chemical reaction involving hydrogen generation and will also limit pressure and temperature rises in the pressure suppression system to below design values. The containment spray system is designed with four (4) pumps, therefore, providing 400% redundancy. The other three (3) pumps satisfactorily meet the performance requirements, therefore, it can be concluded that no hazard would have been presneted to the general public or station had the containment spray system been required.

9.

Corrective Action

The foreign object, a piece of wood 1 3/4" x 3 1/4" x 5 1/4" was removed from its lodged location in the "eye" of the pump. None of the redundant three pumps has shown any behavior, which would lead to the conclusion that similiar problems with foreign objects have occurred.

Following removal of the object and reassembly of the pump, its performance was measured and demonstrated the following:

1. Pump discharge pressure was 165 psig or 379 feet of developed head. (required 375 feet)
2. Pump discharge flow was 150 k lbs / hr or 3000 gpm (required 3000 gpm)

Containment spray pump #122, therefore, is returned to service.

10.

Failure Data

No previous containment spray pump failures.



ABNORMAL OCCURRENCE REPORT

RECEIVED VIA FACSIMILE

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8:35

1. Report No. 74-13
- 2A. Date September 18, 1974
- 2B. Occurrence Date September 18, 1974
3. Facility Nine Mile Point Unit 1
4. Identification of Occurrence  
Inoperable containment spray pump #122.
5. Conditions Prior to Occurrence  
Unit #1 at steady state 98% power
6. Description of Occurrence  
During routine testing following a recalibration of the flow transmitter on September 17, 1974, the performance of containment spray pump #122 was found to have varied from previously expected performance. The three redundant pumps showed expected performance. The pump curve for containment spray pump #122 sets design flow at 3000 gpm at a pump developed head of 375 ft at 60°F. The test data indicated the required developed head but the flow indication was approximately 2600 gpm. The pump was taken out of service and the required surveillance performed on the redundant pump. Technical Specification 3.3.7.b provides 15 days to return the effected pump to service provided the additional surveillance is performed. Specification 3.3.7.b was satisfied, therefore, fulfilling the L.C.O. The pump was disassembled and a piece of wood was found wedged in the "eye" of the pump thus limiting its performance. Therefore, requiring the reporting of an abnormal occurrence pursuant to Technical Specification 1.13d.
7. Designation of Apparent Cause of the Occurrence  
Restricted suction flow caused by foreign object. (approx. 5-6" long  
x 2-3" square piece of wood)
8. Analysis of Occurrence  
Operation of only one containment spray pump is sufficient to remove post accident core energy releases including a substantial chemical reaction involving hydrogen generation and will also limit pressure and temperature rises in the pressure suppression system to below design values. The containment spray system is designed with four (4) pumps therefore providing 400% redundancy. The other three (3) pumps satisfactorily meet the performance requirements, therefore, it can be concluded that no hazard would have been presented to the general public or station had the containment spray system been required.

50-220  
incident

9. Corrective Action

The immediate corrective action will involve the removal of the foreign object from the "eye" of the pump. The pump will then be operated and its performance compared to the specifications to assure its operability.

10. Failure Data

No previous containment spray pump failures.