

# ACCELERATED DISTRIBUTION DEMONSTRATION SYSTEM

## REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR:8801040566 DOC.DATE: 87/12/22 NOTARIZED: NO DOCKET #  
 FACIL:50-251 Turkey Point Plant, Unit 4, Florida Power and Light C 05000251  
 AUTH.NAME AUTHOR AFFILIATION  
 WOODY,C.O. Florida Power & Light Co.  
 RECIP.NAME RECIPIENT AFFILIATION  
 GRACE,J.N. Region 2, Ofc of the Director

SUBJECT: Provides addl info re util 871218 request for discretionary enforcement action on 871218 cooling water pump failure.

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DECEMBER 22 1987

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Dr. J. Nelson Grace  
Regional Administrator, Region II  
U.S. Nuclear Regulatory Commission  
101 Marietta Street, N.W., Suite 2900  
Atlanta, Georgia 30323

Dear Dr. Grace:

Re: Turkey Point Unit 4  
Docket No. 50-251  
Intake Cooling Water Pumps

The purpose of this letter is to provide additional information regarding Florida Power & Light Company's (FPL) verbal request to the NRC Region II staff for discretionary enforcement on December 18, 1987.

On December 18, 1987 the 4C Intake Cooling Water (ICW) pump experienced a failure of the upper coupling. An attempt was made to start the 4B ICW pump but it would not start due to a bound shaft. At this point both pumps were declared inoperable.

One difficulty in the operability determination is the current custom Technical Specification for the ICW system. The ICW system at Turkey Point consists of 3 pumps that can feed two ICW headers. The 4A ICW pump is powered from the 4A 4160 volt safety-related bus. The 4B and 4C ICW pumps are powered from the 4B 4160 volt safety-related bus. At that time both the A and B emergency diesel generators (EDGs) were operable and capable of supplying reliable onsite emergency power to their respective busses.

The current Technical Specifications require all three ICW pumps to be operable and allow only one ICW pump to be inoperable for 24 hours. The specifications do not allow any credit for ICW electrical trains. Additionally, they do not provide an action statement for this condition so a unit shutdown commenced approximately one hour after declaring the 4B and 4C ICW pumps out of service. The standard Technical Specifications (STS), including the FPL submitted version under the Performance Enhancement Program, would allow 72 hours of operation with one ICW train out of service. At this time the NRC was contacted regarding the application of discretionary enforcement for the situation.

Investigation into the failure of the 4C ICW pump revealed that the upper coupling had broken. The material used for this coupling had been previously identified by Power Plant Engineering as susceptible to corrosion failure. Power Plant Engineering's evaluation had determined that no immediate operability concern existed. However, it was recommended that the suspect couplings be replaced with an improved material less susceptible to this type of failure. A review of existing documentation determined that the 4A ICW pump had couplings of the new material recommended by Power Plant Engineering. The investigation into the failure of the 4B ICW pump revealed that the bronze bushing at the stuffing box had bound to the shaft. Further evaluation of these failures is still ongoing.

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Based on the fact that the failures of the 4B and 4C ICW pumps were not common mode, and the 4A ICW pump was operable and had the improved coupling material, a 24-hour extension of operation was requested from and granted by Region II to allow repair of both pumps before completion of a unit shutdown.

The upper coupling on the 4C ICW pump was replaced with the improved coupling material. The 4C ICW pump was satisfactorily tested and placed back in service early in the morning on December 19, 1987, thus relieving the requirement for discretionary enforcement. The 4B ICW pump was replaced with a spare pump. This pump was then satisfactorily tested on the afternoon of December 19, 1987 and placed back in service prior to exceeding the current Technical Specifications action statement.

We would like to express our appreciation for the support and prompt action provided by the Region II staff, in response to our request.

Should there be any questions on this information, please contact us.

Very truly yours,

  
C. Q. Woody  
Executive Vice President

COW/SDF/cn:M016

cc: U.S. Nuclear Regulatory Commission, Document Control Desk  
Senior Resident Inspector, USNRC, Turkey Point Plant

