



EDISON PLAZA  
300 MADISON AVENUE  
TOLEDO, OHIO 43652-0001

Docket Number 50-346

License Number NPF-3

April 10, 1991

NP39-91-001

AB-91-0005

United States Nuclear Regulatory Commission  
Document Control Desk  
Washington, D. C. 20555

Subject: Fire Protection - Special Report Pursuant to Technical  
Specification 3.7.9.1a, Fire Suppression Water System

Gentlemen:

In Toledo Edison (TE) letter Serial Number 1718, dated October 11, 1989, TE committed to replace the existing controller for the electric fire pump with a controller that met the National Fire Protection Association (NFPA) Code requirements. On March 4, 1991, TE removed the electric fire pump from service for a planned outage in order to replace the existing controller. This action caused the Davis-Besse Nuclear Power Station (DBNPS) to intentionally enter Technical Specification (TS) action statement 3.7.9.1a. This action statement requires either the restoration of the inoperable pump to an operable status within seven days or the submission of a Special Report within the next 30 days to the Nuclear Regulatory Commission outlining the plans and procedures to be used to provide for the loss of redundancy in the fire suppression water system.

Replacement of the controller has been successfully accomplished and the electric fire pump was returned to service on March 22, 1991. Because the electric fire pump was inoperable for more than seven days, this Special Report is being submitted.

Prior to the start of the electric fire pump outage, TE assessed the planned temporary loss of redundancy in the fire suppression water system. TE reviewed the fire protection program and the TS regarding the fire suppression water system and documented its plans for the actions required once the electric fire pump would be declared inoperable. Other planned outage preparations included verification of the availability of the local fire department pumper truck to function as a backup fire suppression water system supply. Additionally, no maintenance activity was allowed to be performed which could affect the diesel fire pump operability.

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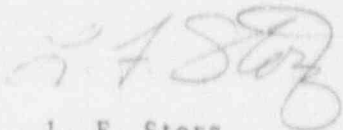
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During this planned outage, TE also installed a new pump impeller having the same part number. Post-modification testing of the electric fire pump identified reduced flow rates. Upon discovery of the discrepancy, TE reinstalled the original impeller and additional testing was performed. The flow rate was returned to the acceptable pre-outage levels. Discussions with the vendor indicate that the reduced flow-rate was a result of the new impeller not having been machined to fit the electric fire pump casing. TE is evaluating, for a future electric fire pump outage, the purchase of a new impeller assembly (casing and impeller) or the shipment of the existing casing to the vendor for precise impeller fitting.

If you have any questions, please contact Mr. R. W. Schraeder, Manager - Nuclear Licensing, at (419) 249-2366.

Sincerely,



L. F. Storz  
Plant Manager

KBR/mmb

cc: P. M. Byron, DB-1 NRC Senior Resident Inspector  
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Utility Radiological Safety Board