



**Commonwealth Edison**  
Zion Generating Station  
Shiloh Blvd. & Lake Michigan  
Zion, Illinois 60099  
Telephone 312/746-2084

June 9, 1980

Mr. James G. Keppler  
Regional Director  
Directorate of Regulatory Operations  
Region III  
U. S. Nuclear Regulatory Commission  
Glen Ellyn, Illinois 60137

Reference: Zion Generating Station  
Docket No. 50-295/DPR-39  
Technical Specification, Section 3.21.2.B

Dear Mr. Keppler:

Enclosed please find a signed cover letter for  
Special Report 80-01, dated May 19, 1980.

Very truly yours,

N. E. Wandke  
Superintendent  
Zion Station

HLS/bvs

Enclosure-Special Report 80-01

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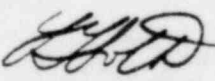
Reference: Zion Generating Station  
Docket No. 50-295/DPR-39  
Technical Specification, Section 3.21.2.B

Dear Mr. Keppler,

Enclosed please find a Special Report which pertains to Zion Generating Station's diesel driven fire pump.

This report is submitted to you in accordance with the requirements of the Technical Specifications, Section 3.21.2.B which states; "When it is determined that less than two fire pumps and their associated initiation logic circuits are operable, the inoperable equipment shall be restored to operable status within 7 days, or in lieu of any other report required by Specification 6.6.2, prepare and submit a Special Report to the Commission within the next 30 days outlining the plans and procedures to be used to provide for the loss of redundancy in this system".

Very truly yours

  
for N. E. Wandke  
Superintendent  
Zion Station

HLS/tg

Enclosure - Special Report 80-01

Special Report 80-01  
COMMONWEALTH EDISON CO.  
ZION GENERATING STATION

50-295

During the weekly surveillance of OB diesel driven fire pump on April 9, 1980 the pump failed to auto start. It also failed to start on a remote manual start. Based on these failures deviation report D-22-0-80-45 was written along with work request Z-06180. The work request was directed to the electrical maintenance department for their investigation. Their job notes reveal that they reset the speed switch and ran the pump twice on which both times it ran fine. This work request was closed on April 10.

While performing the weekly surveillance on April 16 the pump tripped on over speed thirty seconds after it was started. The over speed switch was then reset and the pump was restarted. The pump then ran the necessary fifteen minutes needed for successful completion of the periodic test. Due to the initial tripping, work request Z-06341 was initiated along with deviation report D-22-0-80-48. The work request was directed to the mechanical maintenance department for their investigation. The work request was cancelled due to the periodic test being successfully completed.

On April 23, the weekly periodic test was completed successfully. During the next attempt to complete the surveillance, on April 30, the pump again failed to run. Based on these failures work request Z-06611 and another deviation report D-22-0-80-59 was written.

Because of the recent problems with this pump it was decided to do two things:

1. Arrange for a Cummin's Service Representative to come out and check out the engine.
2. Order a new speed switch.

The Cummin's Service Representative was on site May 5 and 6. The Service Representative found a badly worn water pump drive belt which upon being replaced seems to have eliminated the tripping problem. The pump electrical system is wired in such a manner that high water temperature sends a signal to the speed switch which in turn shuts down the engine. Based on finding the bad water pump drive belt and a dirty cooling system, it was decided to put the speed switch into storeroom stock for future use. The pump successfully completed the weekly periodic test on May 6. A thorough preventive check was performed by the Cummin's Representative and the pump restored to peak operating condition. On May 7 the engine cooling system was thoroughly flushed and refilled with anti freeze and demineralized water.

The health and safety of the public was not affected due to the redundant fire pump being inoperable.

Prepared by: Howard Schneider 5/28/80  
Howard Schneider