

**Detroit  
Edison**

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May 27, 1983  
EF2-63507

Mr. James G. Keppler, Regional Administrator  
Region III  
U. S. Nuclear Regulatory Commission  
799 Roosevelt Road  
Glen Ellyn, Illinois 60137

50-341

Subject: Final Report of 10CFR50.55(e) Item on Improper Assembly of  
Core Spray Pump (#71)

Dear Mr. Keppler:

This is Detroit Edison's final report involving the improper assembly of a core spray pump (PIS #E21-01-C001A). This item was originally reported to Mr. L. Reyes of NRC Region III by Detroit Edison's Mr. H. A. Walker, Supervisor - Construction Quality Assurance, on June 15, 1982.

During Startup testing of the respective pump, it was noted that the pump discharge pressure was approximately 30 pounds rather than the required 300 pounds. Disassembly of the pump revealed that the impeller had been installed on the shaft backwards. During refurbishment of this pump by a site contractor, it was noted that the pump shaft was bent. Even though the impeller itself was marked "Nut End", and the contractor's workers were aware of the marking, the impeller was improperly installed. Documents used by the contractor for replacement of the shaft did not provide sufficient instruction to ensure proper reassembly of the shaft and impeller. Byron Jackson, manufacturer of the pump, has been notified of this possible deficiency in the technical manual.

The possibility of the pump being placed in service with an improperly installed impeller is slight since according to Project procedures, the pump must pass performance tests during construction, startup and maintenance activities. This incident occurred during performance testing while under construction which triggered the investigation leading to the successful resolution to the problem.

Corrective action is complete, in that the shaft was repaired and the impeller has been reinstalled in the correct orientation via a revision to the maintenance procedure, which now includes a step for verifying correct orientation of the impeller. This will assure satisfactory disassembly and reassembly in the future.

Further, Detroit Edison Project Quality Assurance has instituted a program of reviewing the contractor's Operation Process Travelers to to help ensure adequate instructions are included.

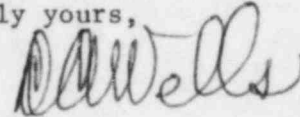
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Mr. James G. Keppler, Regional Administrator  
May 27, 1983  
EF2-63507  
Page Two

If you have questions concerning this matter, please contact  
Mr. G. M. Trahey, Assistant Director - Project Quality Assurance.

Very truly yours,

A handwritten signature in cursive script, appearing to read "D. Wells".

DAW/WEM/pn

cc: Mr. Richard DeYoung, Director  
Office of Inspection and Enforcement  
U. S. Nuclear Regulatory Commission  
Washington, D.C. 20555

Mr. Bruce Little, Senior Resident Inspector  
U. S. Nuclear Regulatory Commission  
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