



**Commonwealth Edison**  
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DMB

June 14, 1984

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

Subject: Byron Generating Station Units 1 and 2  
Containment Spray Pump Impellers  
NRC Docket Nos. 50-454 and 50-455

Dear Mr. Keppler:

This is to provide an interim report on a deficiency in the Byron 1 containment spray pump impellers. This deficiency was reported pursuant to 10 CFR 50.55(e) on May 4, 1984. A final report will be provided by July 31, 1984. For NRC tracking purposes this deficiency is numbered 84-02.

#### Description Of Deficiency

Containment spray system pump impellers were incorrectly placed in Unit 1 pumps (LCS01PA and LCS01PB) during construction when Unit 2 pump parts were transferred as replacements for the original furnished equipment. The Unit 2 "A" pump impeller (low flow) was placed in the Unit 1 "B" pump and the "B" pump impeller (high flow) in the "A" pump. The above condition was identified during the engineering analysis of pump data which questioned the disparity between the test and vendor pump curves.

#### Analysis Of The Safety Implications

Utilizing data gathered during preoperational testing of the Unit 1 containment spray pumps, pump curves plotted for the "A" pump (with "B" impeller installed) met pump curve acceptance criteria whereas the "B" pump (with "A" impeller installed) did not meet its designed flow rate curve.

Subsequent engineering analysis of the containment spray system test data determined that at the pump operating point, the pumps marginally met the required total developed head flow requirements.

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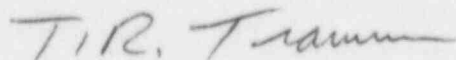
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Corrective Action Taken and Results Achieved

The pump impellers were removed and measured to verify size. The serial numbers were also correlated with vendor documentation. After proper identification of pump impellers was established the "A" pump impeller was installed in the "A" pump and the "B" pump impeller in the "B" pump. A preoperational retest has been performed to gather data necessary to verify pump performance satisfactorily meets acceptance criteria. Commonwealth Edison Project Engineering Department will review safety related pump data and establish requirements to preclude exchange of component parts that are not interchangeable.

Please address any questions regarding this matter to this office.

Very truly yours,



T. R. Tramm  
Nuclear Licensing Administrator

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cc: Director of Inspection & Enforcement