

UNION ELECTRIC COMPANY

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ST. LOUIS, MISSOURI

July 1, 1983

DONALD F. SCHNELL
VICE PRESIDENT

MAILING ADDRESS:
P. O. BOX 149
ST. LOUIS, MISSOURI 63166

Mr. James G. Keppler, Director
U. S. Nuclear Regulatory Commission
Region III
799 Roosevelt Road
Glen Ellyn, IL 60137

ULNRC-646

Dear Mr. Keppler:

FINAL 10 CFR 50.55(e)/PART 21 REPORT NO. U-56
METAL BELLOWS FLEXIBLE HOSE ASSEMBLY
CALLAWAY PLANT UNIT 1

Union Electric Company advised the NRC on June 2, 1983 of a deficiency reportable under the criteria of 10 CFR Part 50.55(e) regarding a Metal Bellows flexible hose assembly. Flexible hose assemblies are employed in the portion of Component Cooling Water (CCW) system which provides cooling water to various Reactor Coolant Pump (RCP) coolers. The deficiency involves the fabrication and delivery by Metal Bellows Corporation, and the receipt and installation by our constructor, of a flexible hose assembly with a 60 degree rather than a 30 degree fitting at the discharge of the RCP "B" motor air cooler (flex hose EG-FH-017). Subsequently, Metal Bellows advised our Lead A/E of the potential for premature failure of the hose assembly with the discrepant fitting when installed in the prescribed design configuration. The defect became known to Union Electric through our Lead A/E as the SNUPPS Wolf Creek unit had identified the nonconformance prior to installation and was proceeding to secure a proper replacement assembly. An inspection of the Callaway installation revealed that the discrepant assembly had been installed and that the assembly had been oriented with the end positions inverted. Union Electric has since made arrangements with Metal Bellows to have the discrepant assembly reworked. Although an estimated date for the return of the assembly could not be obtained from Metal Bellows, the reworked assembly will be installed in a time frame to support our Hot Functional Testing program which is currently scheduled for November 15, 1983.

To insure that other Metal Bellows hose assemblies were supplied per design, an inspection of all 40 assemblies was performed. The inspection revealed that the other hose assemblies contained no discrepant fittings and had been installed in the proper configuration. This nonconformance has been documented per project procedures and craft personnel are to

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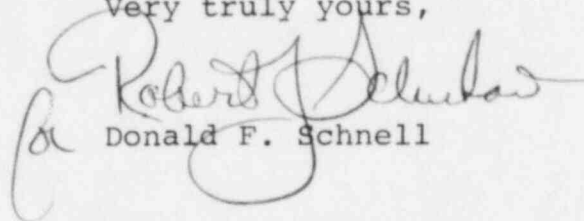
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be instructed as to the importance of completing installations per the design.

This deficiency is considered significant in that a failure of a hose assembly, due to overstressing during installation or operation, would potentially degrade the ability of the CCW System to perform its safety function. A loss of CCW from a ruptured hose assembly may be difficult for an operator to diagnose and therefore take appropriate corrective action.

This letter serves as our final report on this subject.

Very truly yours,


Donald F. Schnell

MMR/JJS/msc

cc: H. M. Wescott, Region III
Richard DeYoung, Director I&E
John Neisler, NRC Resident Inspector
Missouri Public Service Commission