

DMB

UNION ELECTRIC COMPANY

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DONALD F. SCHNELL
VICE PRESIDENT

April 9, 1984

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

ULNRC- 795

Dear Mr. Keppler:

FINAL 10CFR50.55(e)/PART 21 REPORT U-80
FAILURE OF THE CONTAINMENT COOLING FANS
TO REMAIN IN SAFEGUARDS POSITION FOLLOWING SIS RESET
CALLAWAY PLANT

On April 3, 1984 Union Electric informed the NRC Region III office of a deficiency reportable under 10CFR50.55(e). The deficiency involves the failure of the containment cooling fans to remain in low-speed (safeguards position) following the reset of a Safety Injection Signal (SIS). This problem was discovered during preoperational testing of the Engineered Safety Features Actuation System.

The containment cooling fans normally operate in the high-speed position, and by design, should transfer automatically to low-speed during an SIS. The design basis is stated in the FSAR Chapter 6.2.2.2.2.3. In addition, NRC I.E. Bulletin #80-06 states that these fans should remain in that position when the SIS is reset.

The described problem was caused when the A/E, Bechtel Power Corporation, initiated a design change to allow speed control of the fans from the auxiliary shutdown panel after control room evacuation and isolation. This change inadvertently disabled the control scheme function that maintained the fans in slow speed following the reset of the SIS. This design oversight will be corrected with the addition of an interlock that will block the fans from returning to high-speed after the SIS is initiated. The fans will remain in slow speed until the operator acts to restore the fans to normal (fast speed). With this modification, the design of the containment cooling fan control circuitry will meet the requirements stated in the FSAR and I.E. Bulletin #80-06.

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This is our final report on this subject.

Very truly yours,


for Donald F. Schnell

GSA/RWF:glp

cc: B. L. Forney, NRC Region III
Richard DeYoung, Director I & E
NRC Resident Inspectors, Callaway Plant (2)
Missouri Public Service Commission