

DMB

UNION ELECTRIC COMPANY

1901 GRATIOT STREET  
ST. LOUIS, MISSOURI

DONALD F. SCHNELL  
VICE PRESIDENT

November 1, 1983

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

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

ULNRC- 682

Dear Mr. Keppler:

FINAL 10CFR50.55(e) REPORT U-61  
WESTINGHOUSE TYPE SA-1 DIFFERENTIAL RELAYS  
CALLAWAY PLANT

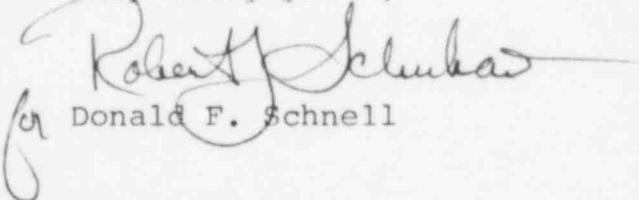
Reference: ULNRC-657, 8/31/83

In the referenced letter Union Electric provided an Interim Report to the U.S.N.R.C. Region III Director regarding leaking internal capacitors in Westinghouse SA-1 relays employed in emergency diesel generator trip circuits. In that Interim Report, Union Electric committed to furnishing the NRC a final report when the results of the Westinghouse defect analysis became available.

The Westinghouse analysis has been received by Union Electric and indicates that the tantalum capacitors at the top of the printed circuit board on the relay may leak electrolyte causing component corrosion and subsequent relay failure. Westinghouse has elected to change the design of the capacitors to a hermetically sealed unit. Union Electric feels that the hermetically sealed capacitors will eliminate the problem.

New relays which incorporate the hermetically sealed capacitors have been ordered and will be installed prior to fuel load.

Very truly yours,

  
for Donald F. Schnell

MAC/lcs

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

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