

UNION ELECTRIC COMPANY

1901 Gratiot Street, St. Louis

Donald F. Schnell Vice President November 15, 1985

Mr. Harold R. Denton, Director Office of Nuclear Reactor Regulation U.S. Nuclear Regulatory Commission Washington, D. C. 20555

Dear Mr. Denton:

ULNRC-1210

DOCKET NUMBER 50-483
CALLAWAY PLANT, UNIT 1

References: 1) ULNRC-1003 dated December 28, 1985

2) NRC Letter from B. J. Youngblood to D. F. Schnell dated July 30, 1985

Callaway License Condition C(12) deals with the use of Residual Heat Removal (RHR) suction relief valves for Low Temperature Over-Pressure Protection (LTOP). In Reference 1 Union Electric proposed a modification to add an alarm circuit to valves BB-PV-8702A and EJ-HV-8701B. The alarms will provide assurance that the RHR system is properly isolated from the Reactor Coolant System (RCS) when the plant is returned to operating pressure following use of the RHR relief valves for LTOP. NRC subsequently approved this modification in Reference 2.

During the course of completing the detailed design of this modification it was determined the modification as proposed in Reference 1 would perform its intended function, but would produce alarms that could not be cleared, even with correct valve alignment. This is because the alarms would be generated above the interlock activation setpoint of 682 psig, when power was removed from the valves, as procedurally required. In order to remedy this situation, Union Electric proposes modified alarm circuits which will alarm only if either valves BB-PV-8702A or EJ-HV-8701B is open at pressures above the interlock setpoint. A single annunciator window will represent these two alarm circuits, but they will be alarmed individually on the Balance of Plant Computer.

The newly proposed alarm circuits do not affect the analysis provided in Reference 1 with regard to compliance to Standard Review Plans 5.2.2 and 5.4.7 and the corresponding Branch Technical Positions RSB 5-2 and 5-1. In the previously approved design, valve position was provided indirectly by an auxiliary relay at the motor control center and was therefore not available when power was removed from the valves. The newly proposed circuits are an improvement due to this design not relying on

8511200165 851115 PDR ADOCK 05000483 PDR

Rec'd where # 150.00

power to the valve actuator to provide the alarm. This is because the valve position inputs for the alarms now come directly from valve stem mounted limit witches and power is provided by the annunciator system. An alarm response procedure will direct the operator to verify valve closure upon receipt of this alarm. The attached sketch depicts the alarm circuits which are currently proposed.

License Condition C(12) established an implementation schedule of 1 year following NRC approval. The newly proposed alarm circuits require new cables be run to the valves in containment and therefore require an outage to complete that portion of the modification. The only scheduled outage for Callaway prior to July 30, 1986 is the Refuel-1 outage which will begin on March 1, 1986. Work to be performed during Refuel-1 is in the final stages of planning and therefore NRC approval of this modification is requested by December 1, 1985.

We regret that additional effort on your part will be required to close License Condition C(12), but we do appreciate an expeditious review of this request. Enclosed is a check for the \$150.00 application fee required by 10 CFR 170.12. If there are any questions, please contact us.

Very truly yours,

Donald F.

DS/bjk

STATE OF MISSOURI)

OUTPUT

O

Robert J. Schukai, of lawful age, being first duly sworn upon oath says that he is General Manager-Engineering (Nuclear) for Union Electric Company; that he has read the foregoing document and knows the content thereof; that he has executed the same for and on behalf of said company with full power and authority to do so; and that the facts therein stated are true and correct to the best of his knowledge, information and belief.

Robert

Robert J. Schukai

General Manager-Engineering

Nuclear

SUBSCRIBED and sworn to before me this 15th day of Navember 1985.

BARBARA J. PFAFF)

NOTARY PUBLIC, STATE OF MISSOURI
MY COMMISSION EXPIRES APRIL 22, 1989

ST. LOUIS COUNTY.

cc: Gerald Charnoff, Esq.
Shaw, Pittman, Potts & Trowbridge
1800 M. Street, N.W.
Washington, D.C. 20036

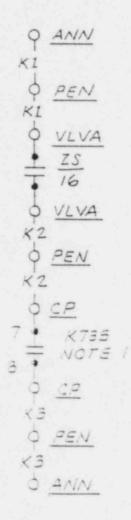
Nicholas A. Petrick
Executive Director
SNUPPS
5 Choke Cherry Road
Rockville, Maryland 20850

G. C. Wright
Division of Projects and
Resident Programs, Chief, Section 1A
U.S. Nuclear Regulatory Commission
Region III
799 Roosevelt Road
Glen Ellyn, Illinois 60137

Bruce Little
Callaway Resident Office
U.S. Nuclear kegulatory Commission
RR#1
Steedman, Missouri 65077

Tom Alexion
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
Mail Stop P-316
7920 Norfolk Avenue
Bethesda, MD 20014

BB-PV-8702A, EJ-HV-8701B ALARM CIRCUIT (TYPICAL)



ANNUNCIATOR CIRCUIT

TABLE B

ANN. REF. DWG BECHTEL V.P. NO.	J-108-299
ANNUNCIATOR POINT	88248702
ANNUNCIATOR LOC- ANN	RK0458
CONTROL PNL - CP	SB032D
VALVE NO YLVA	88PV8702A
PENETRATION - PEN	ZSE 233
ANNUNCIATOR SCHEME NO.	488R128

TABLE C

and the second s	
ANN. REF. DWG BECHTEL V.P. NO.	J-108-299
ANNUNCIATOR POINT	EJZ48701
ANNUNCIATOR LOC- ANN	RKO45A
CONTROL PNL - CP	SB029D
VALVE NO VLVA	EJHV87018
PENETRATION - PEN	ZNE277
ANNUNCIATOR SCHEME NO.	IEJR05C
The state of the s	