



Commonwealth Edison
One First National Plaza, Chicago, Illinois
Address Reply to: Post Office Box 767
Chicago, Illinois 60690

March 25, 1982

Mr. James G. Keppler, Regional Administrator
Directorate of Inspection and
Enforcement - Region III
U.S. Nuclear Regulatory Commission
799 Roosevelt Road
Glen Ellyn, IL 60137



Subject: Byron Station Units 1 and 2
Braidwood Station Units 1 and 2
1) Final Response to I.E. Bulletin
81-02 Supplement 1, "Failure of
Gate Type Valves to Close Against
Differential Pressure"
2) Final Response to 50.55(e)
Deficiency Report 81-03
NRC Docket Nos. 50-454/455/456 and 457

Reference (a): E. D. Swartz letter to J. G. Keppler
dated November 16, 1981.

Dear Mr. Keppler:

In Reference (a), we indicated that the specific modifications required as a result of the subject Bulletin 81-02 for our Braidwood Station Units 1 and 2 were expected to be determined by March, 1982. Additionally, we stated that the schedule for completion of the Byron Unit 2 and Braidwood Units 1 and 2 modifications would be submitted by April 1, 1982.

This letter along with its enclosure is intended to provide our final response to I.E. Bulletin 81-02, Supplement 1 and the final response to our 10 CFR 50.55(e) Deficiency Report 81-03.

The modifications identified in Reference (a) for Byron Units 1 and 2 have been completed.

The enclosure to this letter identifies the modifications required for Braidwood Units 1 and 2. We anticipate that modifications will be completed by April 1, 1983, however this schedule is dependent upon the installation schedule for the affected valves. The instructions for the required modifications have been received by the site.

MAR 29 1982

8204050047 820325
PDR ADOCK J5000454
Q PDR

IE 11
3/11

J. G. Keppler

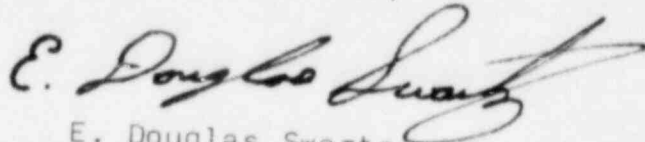
- 2 -

March 25, 1982

To the best of my knowledge and belief the statements contained herein are true and correct. In some respects, these statements are not based upon my personal knowledge but upon information furnished by other Commonwealth Edison employees. Such information has been reviewed in accordance with Company practice and I believe it to be reliable.

Please address any further questions that you or your staff may have concerning this matter to this office.

Very truly yours,



E. Douglas Swartz
Nuclear Licensing Administrator

lm

Enclosure

cc: Director, NRC Office of Inspection
and Enforcement
Region III Inspector - Byron
Region III Inspector - Braidwood

SUBSCRIBED and SWORN to
before me this 25th day
of March, 1982

Oralia A. Pienta
Notary Public

3723N

ENCLOSURE

COMMONWEALTH EDISON COMPANY

BYRON STATION UNITS 1 and 2

BRAIDWOOD STATION UNITS 1 and 2

FINAL RESPONSE TO I.E. BULLETIN

81-02 SUPPLEMENT 1

FINAL RESPONSE TO 10 CFR 50.55(e)

DEFICIENCY REPORT 81-03

ATTACHMENT

<u>Valve Function</u>	<u>Valve Location Number</u>	<u>W EMD Model Reference</u>	<u>Maximum P (psi) (1)</u>	<u>Consequence of Failure to Close</u>	<u>Braidwood Sta. Required Modification</u>
VCT Outlet	LCV-112B,C	4GM72FB	100	Failure of either of two valves in series to close reduces redundancy of providing isolation. Alternate valve will provide isolation.	Unit 1 - A Unit 2 - None
RWST to Suction CCP	LCV-112D,E	8GM72FB	200	Failure of either of two valves in parallel from the RWST to the suction of the CCP's reduces redundancy of providing isolation of RWST during the recirculation phase following a LOCA. Isolation will be provided by a check valve in series with the two paths.	Unit 1 - B Unit 2 - A
RHR Suction Isolation (Inner)	8701B 8702B	12GM88SEH	700	Failure of either of the two inner isolation valves in series to close reduces the redundancy of providing isolation. Isolation is provided by closing the outer valve.	C
RHR Suction Isolation (Outer)	8701A 8702A	12GM88SEH	700	Same as 8701B/8702B except for closing the inner valves.	C

(1) As flow approaches zero, final functional requirement.

A: Adjust open and close torque switchsetting.

B: Change to limit control closure, change gear ratio.

C: Change to limit control closure

<u>Valve Function</u>	<u>Valve Location Number</u>	<u>W EMD Model Reference</u>	<u>Maximum P (psi) (1)</u>	<u>Consequence of Failure to Close</u>	<u>Braidwood Sta. Required Modification</u>
RHR Discharge	8716A, B	8GM 74FE	300	Failure of either of the two valves in series to close reduces redundancy of providing low head train separation during cold leg recirculation phase following a LOCA. Train separation can be achieved by closing other valve.	Unit 1 - B,C Unit 2 - C
RHR Heat Exchanger Discharge to CCP Suction	8804A	8GM84FE	300	Failure of valve to close precludes realignment of RHR for normal operation. (Valve is opened for recirculation phase following a LOCA).	C
RHR Heat Exchanger Discharge to SI Pump Suction	8804B	8GM74FE	300	Same as 8804A	C
RWST to SI Pump Suction	8806	8GM72FB	200	If valve fails to close, backflow into RWST would be prevented by a check valve. (Valve is closed for recirculation phase following a LOCA).	A

(1) As flow approaches zero, final functional requirement.

A: Adjust open and close torque switch setting.

B: Change to limit control closure, change gear ratio.

C: Change to limit control closure.

<u>Valve Function</u>	<u>Valve Location Number</u>	<u>W EMD Model Reference</u>	<u>Maximum P (psi) (1)</u>	<u>Consequence of Failure to Close</u>	<u>Braidwood Stat. Required Modification</u>
CCP Suction SI Pump Suction Crossover	8807A,B GR 8924 GR	6GM72FB	200	There are two valves in parallel (8807A,8) in series with one (8924). Failure of any of these valves to close will not preclude isolation.	A A
SI Pump Suction Cross Connect	8923A,B GR	6GM72FB	200	If either valve fails to close, the other valve will provide the separation. (Valves are closed to provide SI pump train separation).	None None
Accumulator Discharge	8808A,B,C,D	10GM88FN	0	Valve is closed to prevent RCS pressurization during cold shut-down operation. If valve fails to close, the accumulator may be depressurized by venting the N ₂ to containment.	None
RHR Cold Leg Injection	8809A,B	8GM78FN	200	Valve is closed for switchover from cold leg to hot leg recirculation. Failure of valve to close will degrade flow to hot legs.	None

- (1) As flow approaches zero, final functional requirement.
A: Adjust open and close torque switch setting.
B: Change to limit control closure, change gear ratio.
C: Change to limit control closure.

0901b*