

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

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 FACIL: 50-387 Susquehanna Steam Electric Station, Unit 1, Pennsylvania 05000387
 AUTH. NAME AUTHOR AFFILIATION
 CURTIS, N.W. Pennsylvania Power & Light Co.
 RECIP. NAME RECIPIENT AFFILIATION
 SCHWENCER, A. Licensing Branch 2

SUBJECT: Requests that Item 5 of SER Section 3.10.2.1, Suppl 3 be revised to allow 25 cycles of operation of reactor recirculation sys discharge valves w/o motor brake.

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OCT 27 1982

Mr. A. Schwencer, Chief
Licensing Branch No. 2
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

SUSQUEHANNA STEAM ELECTRIC STATION
SSER #3 SECTION 3.10.2.1 (5)
ER 100450 FILE 841-2
PLA-1365

Docket No. 50-387

Dear Mr. Schwencer:

Item 5 of Section 3.10.2.1 of the Susquehanna SES Safety Evaluation Report, Supplement Number 3, places a 10-cycle limitation on the operation of recirculation discharge valves (HV-1F031 A&B) once the Limitorque motor brakes have been removed. Pennsylvania Power & Light Company has been informed by General Electric Company that they and Lunkenheimer Valve Company have determined that these valves can be operated up to 25 cycles without the motor brakes installed.

Pennsylvania Power & Light Company has confirmed with Lunkenheimer Valve Company that an increase from 10 to 25 cycles of operation of the reactor recirculation system discharge valves without the brake was acceptable. The basis for the acceptability of the 25 cycles is that the valves have been wired for limit switch (position) seating rather than torque switch seating during the period from removal of the brakes to the conversion or replacement of the motor actuators. This wiring was performed under the direction of a Lunkenheimer representative.

With position seating, there is some uncertainty as to the degree of closure of the valve. Ideally the valve will close just clear of the seat thereby limiting either seat damage from hard closure or excessive seat leakage from insufficient closure. In order to assess the affects of seat leakage, GE calculated the impact on Peak Clad Temperature (PCT) of various leakage rates. The results follow:

<u>% Loss of RHR Cooling from 23, 200gpm</u>	<u>OF Increase in PCT from 1790°F</u>
1%	10°F
10%	53°F
30%	200°F

We would expect no excessive seat leakage due to 25 cycles of operation; however as shown above, up to 30% seat leakage could be tolerated and still keep the PCT below the 2200°F limit. Therefore there is no safety impact from the effect of hard seating.

Boo!

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Mr. A. Schwencer

The above results apply to the LOCA (recirculation suction line break) which is the only case requiring valve closure.

We request that the SER section be revised to allow 25 cycles of operation of the reactor recirculation system discharge valves without the motor brake.

Very truly yours,



N. W. Curtis
Vice President-Engineering & Construction-Nuclear

CTC/mks

cc: .R. L. Perch - NRC

