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Frederick W. Schneider
Vice President
Production

Public Service Electric and Gas Company 80 Park Plaza Newark, N.J. 07101 201/430-7373

July 14, 1981

Mr. Boyce H. Grier, Director
U.S. Nuclear Regulatory Commission
Office of Inspection and Enforcement
Region I
631 Park Avenue
King of Prussia, Pennsylvania 19406

Dear Mr. Grier:

SUPPLEMENTAL RESPONSE
NRC IE BULLETIN 80-18
MAINTENANCE OF ADEQUATE MINIMUM FLOW THROUGH
CENTRIFUGAL CHARGING PUMPS FOLLOWING SECONDARY
SIDE HIGH ENERGY LINE RUPTURE
No. 1 AND 2 UNITS
SALEM GENERATING STATION



As a result of our continued evaluation of the potential problem described in IE Bulletin 80-18, we have developed a revised interim solution that includes plant modifications in conjunction with procedural changes.

It is our intent to remove the safety injection initiation signal from the centrifugal charging pump (CCP) miniflow isolation valves, CV 139 and CV 140, on both Salem units, thus preventing automatic termination of miniflow. Coupled with the circuitry modifications, manual valve CV 197, which directs Reactor Coolant Pump (RCP) sealwater return flow to the suction of the CCP's, will be locked closed and manual valve CV 130, which will cause RCP sealwater return and CCP miniflow water to go to the Volume Control Tank (VCT), will be locked open. This valve alignment will cause the VCT to fill solid during a Safety Injection Initiation; the VCT relief valve, CV 241, would then open, directing miniflow to the CVCS holdup tanks. Procedurally, the operator will be instructed to terminate miniflow below an RCS pressure 1500 psig (when the RCP's are stopped), and to reestablish miniflow if RCS pressure rises again to 2000 psig.

Should an actual small-break LOCA occur with no rapid RCS depressurization, the emergency instructions will call for closure

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Mr. Boyce H. Grier, Director
U.S. Nuclear Regulatory Commission

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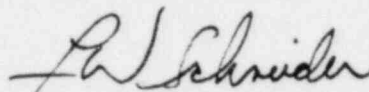
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of the miniflow valves, CV 139 and CV 140 within 15 minutes of SI initiation.

Implementation of physical plant changes, procedure modifications, and training of necessary plant personnel will be completed during the next refueling outage for Unit No. 1 and during the first outage of sufficient length occurring after November 1, 1981 for Unit No. 2.

We are continuing to pursue a long-term resolution of this situation with Westinghouse. Any additional modifications will be brought to your attention as a supplemental response to the Bulletin.

Very truly yours,

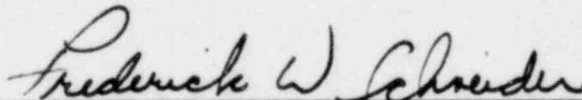
A handwritten signature in dark ink, appearing to read "R. W. Schneider". The signature is fluid and cursive, with the first name "R." and last name "Schneider" clearly distinguishable.

CC Director
Div. of Reactor Operations Inspection
Washington, DC

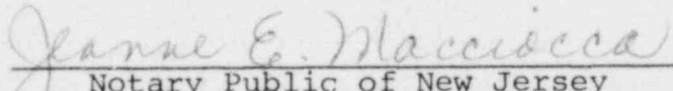
STATE OF NEW JERSEY)
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COUNTY OF ESSEX) SS: COUNTY OF ESSEX

FREDERICK W. SCHNEIDER, being duly sworn according to law deposes and says:

I am a Vice President of Public Service Electric and Gas Company, and as such, I signed the letter dated July 14, 1981, to Mr. Boyce H. Grier, Director, NRC Office of Inspection and Enforcement, Region I, as a supplemental response to NRC Bulletin No. 80-18 "Maintenance of Adequate Minimum Flow Through Centrifugal Charging Pumps Following Secondary Side High Energy Line Rupture." The matters set forth in said response letter are true to the best of my knowledge, information and belief.


FREDERICK W. SCHNEIDER

Subscribed and sworn to before me
this 16th day of July, 1981


Notary Public of New Jersey

My Commission expires on Oct. 1, 1983