

Docket No. 50-272

Mr. F. W. Schneider, Vice President  
Production  
Public Service Electric and Gas Company  
80 Park Plaza 15-A  
Newark, New Jersey 07101

Dear Mr. Schneider:

By letter of September 19, 1977 we advised you of a potential scenario that could result in reactor criticality, with the control rods inserted, at Salem Unit No. 1 (Salem-1). The cause of such an accident was postulated to be inadvertent dilution of boron in the reactor coolant. In your response, dated February 1, 1978, you provided justification that the design of the decay heat removal system at Salem-1 precluded the specific postulated accident, and you stated that no further design modification was necessary.

We are continuing to review the potential for boron dilution accidents in general and the boron dilution event analysis of record for each plant. In order for us to complete our review for Salem-1 we need to know the extent to which you have evaluated the potential for boron dilution accidents other than those analyzed in the FSAR and the February 1, 1978 letter. I request that you provide within 45 days a description of any additional accidents so identified and an analysis of the consequences of each potential accident.

Sincerely,

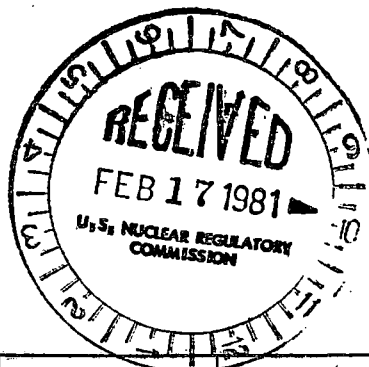
Steven A. Varga, Chief  
Operating Reactors Branch #1  
Division of Licensing

cc;  
See next page

87 02280496

DISTRIBUTION:  
 Docket File 50-272  
 NRC PDR  
 L PDR  
 TERA  
 NSIC  
 ORB#1 Rdg  
 Deisenhut  
 RPurple  
 TNovak  
 RTedesco  
 GLainas  
 JHeltemes  
 OELD  
 I&E (3)  
 SVarga

WRoss  
 CParrish  
 Gray File  
 ACRS (16)



OFFICE	ORB#1: DL	ORB#1: DL					
SURNAME	WRoss	SVarga					
DATE	2/3/81	2/18/81					

Docket

50-272



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D. C. 20555

February 10, 1981

Docket No. 50-272

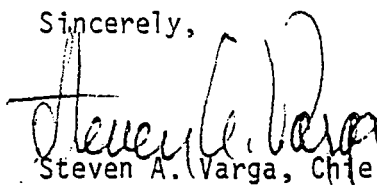
Mr. F. W. Schneider, Vice President  
Production  
Public Service Electric and Gas Company  
80 Park Plaza 15-A  
Newark, New Jersey 07101

Dear Mr. Schneider:

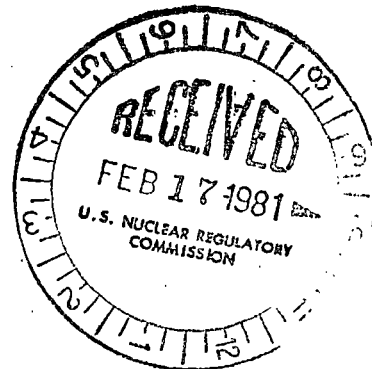
By letter of September 19, 1977 we advised you of a potential scenario that could result in reactor criticality, with the control rods inserted, at Salem Unit No. 1 (Salem-1). The cause of such an accident was postulated to be inadvertent dilution of boron in the reactor coolant. In your response, dated February 1, 1978, you provided justification that the design of the decay heat removal system at Salem-1 precluded the specific postulated accident, and you stated that no further design modification was necessary.

We are continuing to review the potential for boron dilution accidents in general and the boron dilution event analysis of record for each plant. In order for us to complete our review for Salem-1 we need to know the extent to which you have evaluated the potential for boron dilution accidents other than those analyzed in the FSAR and the February 1, 1978 letter. I request that you provide within 45 days a description of any additional accidents so identified and an analysis of the consequences of each potential accident.

Sincerely,

  
Steven A. Varga, Chief  
Operating Reactors Branch #1  
Division of Licensing

cc:  
See next page



Mr. F. W. Schneider  
Public Service Electric and Gas Company

cc: Mark J. Wetterhahn, Esquire  
Conner, Moore and Corber  
Suite 1050  
1747 Pennsylvania Avenue, NW  
Washington, D. C. 20006

Richard Fryling, Jr., Esquire  
Assistant General Solicitor  
Public Service Electric and Gas Company  
80 Park Place  
Newark, New Jersey 07101

Gene Fisher, Bureau of Chief  
Bureau of Radiation Protection  
380 Scotch Road  
Trenton, New Jersey 08628

Mr. R. L. Mittl, General Manager  
Licensing and Environment  
Public Service Electric and Gas  
Company  
80 Park Plaza 17C  
Newark, New Jersey 07101

Mr. Henry J. Midura, Manager  
Salem Nuclear Generating Station  
Public Service Electric and Gas  
Company  
P. O. Box 168  
Hancocks Bridge, New Jersey 08038

Salem Free Library  
112 West Broadway  
Salem, New Jersey 08079

Leif J. Norrholm, Resident Inspector  
Salem Nuclear Generating Station  
U. S. Nuclear Regulatory Commission  
Drawer I  
Hancocks Bridge, New Jersey 08038

Peter A. Moeller  
Nuclear Licensing Engineer  
Public Service Electric and Gas Company  
80 Park Plaza - 15A  
Newark, New Jersey 07101

Mr. R. A. Uderitz  
General Manager, Nuclear  
Production  
Public Service Electric and  
Gas Company  
80 Park Plaza 15A  
Newark, New Jersey 07101

Mr. J. T. Boettger  
General Manager, Quality  
Assurance I&E  
Public Service Electric and  
Gas Company  
80 Park Plaza  
Newark, New Jersey 07101

Mr. Edwin A. Liden, Manager  
Nuclear Licensing  
Licensing and Environment Dept.  
Public Service Electric and Gas  
Company  
80 Park Plaza 16D  
Newark, New Jersey 07101