

APR 1 1977

Docket No. 50-272

Public Service Electric & Gas Company
ATTN: Mr. F. P. Librizzi
General Manager - Electric
Production
Production Department
80 Park Place, Room 7221
Newark, New Jersey 07101

Gentlemen:

RE: SALEM NUCLEAR GENERATING STATION, UNIT NO. 1

A pressure transient recently occurred at an operating PWR facility when a reactor coolant pump (RCP) was started while in a water-solid condition. At the time, the temperature of the steam generator in that loop was greater than the reactor coolant system (RCS) temperature and a pressure transient from about 400 psig to about 800 psig resulted.

All PWR licensees should include provisions to prevent RCP starts while in a water-solid condition. The purpose of such provisions is to prevent pressure transients due to temperature differentials within the RCS. Should it become necessary to start a RCP while water-solid, appropriate steps should be taken to determine and minimize the temperature profile. Such action was not taken prior to the recently reported event.

Based on this recent pressure transient and our review of PWR submittals describing RCP operating procedures, we are concerned that the significance of this event may not be fully realized.

We, therefore, now request that you implement procedures to prevent RCP starts (or "jogs") while in a water-solid condition when the steam generator temperature is greater than RCS temperature. In the event that a RCP start while water-solid cannot be avoided we request that your plant operating procedures include non-optional pre-requisite steps to ensure that the RCS temperature profile is determined and if that profile is excessive, that appropriate measures are specified to achieve an acceptable profile prior to starting a RCP.

OFFICE >						
SURNAME >						
DATE >						

We further request that these procedures be implemented immediately, and that they remain in effect until we have received and approved an analysis justifying any deviations from these provisions. You are requested to advise us within 15 days of receipt of this letter that you have implemented the provisions discussed above.

In addition, it is strongly recommended that you immediately conduct a critical review of your procedures to ensure that they are fully responsive to all of the positions stated in our letter of February 4, 1977 and compatible with the pertinent results of your RCS pressure response analysis.

Sincerely,

George Lear, Chief
 Operating Reactors Branch #3
 Division of Operating Reactors

cc: Richard Fryling, Jr., Esquire
 Assistant General Counsel
 Public Service Electric & Gas Company
 80 Park Place
 Newark, New Jersey 07101

Richard B. McGlynn, Commissioner
 Department of Public Utilities,
 State of New Jersey
 Newark, New Jersey 07102

Troy B. Conner, Jr., Esquire
 Suite 1050
 17 Pennsylvania Avenue, N.W.
 Washington, D. C. 20006

Attorney General
 Dept. of Law & Public Safety
 State House Annex
 Trenton, New Jersey 08625

John Russo
 Bureau Chief
 Bureau of Radiation Protection
 380 Scotts Road
 Trenton, New Jersey 08628

Honorable David A. Fogg
 Mayor, Lower Alloways Creek Township
 Salem County, New Jersey 08079

State House Annex
 ATTN: Deputy Attorney General
 State of New Jersey
 36 West State Street

DISTRIBUTION:

Docket ACRS (16)
 NRC PDR File
 Local PDR
 ORB#3 Rdg
 GLear
 CParrish
 DVerrelli
 GZech
 OELD
 OI&E (3)
 DEisenhut
 TBAbernathy
 JRBuchanan

OFFICE >	Trenton, New Jersey 08625	ORB#3	ORB#1	ORB#3 Dmv	ORB#3
SURNAME >		CParrish	GZech	DVerrelli	GLear
DATE >		4/ 1 /77	4/ 1 /77	4/ 1 - /77	4/ 1 /