

Public Service
Electric and Gas
Company

Thomas M. Crimmins, Jr.

Public Service Electric and Gas Company P.O. Box 236, Hancocks Bridge, NJ 08038 609-339-4700

Vice President - Nuclear Engineering

MAR 01 1991

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United States Nuclear Regulatory Commission
Document Control Desk
Washington, DC 20555

Gentlemen:

STATION BLACKOUT REVISED SCHEDULE
SALEM AND HOPE CREEK GENERATING STATION
DOCKET NOS. 50-272, 50-311 AND 50-354

Public Service Electric and Gas (PSE&G) forwarded the Station Blackout Schedule Commitment to you on July 30, 1990. In this letter, PSE&G stated that all activities required to complete the third party audit findings, identified in the April 30, 1990 submittal, would be completed by February 28, 1991. PSE&G has evaluated these findings and is in the process of updating the SBO coping analyses for Salem Generating Stations Units 1 and 2 and Hope Creek Generating Station.

Attachments 1 and 2 provide the preliminary results of the SBO coping analyses for Salem and Hope Creek, respectively. These analyses are being developed in accordance with the guidance set forth in USNRC Regulatory Guide 1.155, NUMARC 87-00 and NUMARC letter, "Station Blackout (SBO) Implementation: Request for Supplemental SBO Submittal to NRC," dated January 4, 1990, in order to comply with the requirements of 10 CFR 50.63.

On March 28, 1991, PSE&G will resubmit the results of the coping analyses for Salem and Hope Creek outlining any modifications and procedure changes.

If you have any questions regarding this submittal please do not hesitate to contact us.

Sincerely,



Attachments

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C Mr. J. C. Stone
Licensing Project Manager - Salem

Mr. Stephen Dembek
Project Manager - Hope Creek

Mr. T. Johnson
Senior Resident Inspector

Mr. T. Martin, Administrator
Region I

Mr. Kent Tosch, Chief
New Jersey Department of Environmental Protection
Division of Environmental Quality
Bureau of Nuclear Engineering
CN 415
Trenton, NJ 08625

ATTACHMENT 1

SUMMARY OF STATION BLACKOUT COPING ANALYSIS SALEM GENERATING STATION UNITS 1 AND 2

The Code of Federal Regulations 10 CFR Part 50.63, Loss of all Alternate Current Power, requires that "Each light water-cooled nuclear power plant licensed to operate must be able to withstand for a specified duration and recover from a station blackout...". The guidelines for complying with this regulation are provided in USNRC Regulatory Guide 1.155, dated August 1988, and Nuclear Management and Resources Council document NUMARC 87-00, dated November 1987.

A Salem Generating Station - Units 1 and 2 Station Blackout analysis has been performed in accordance with the guidelines provided in RG 1.155 and NUMARC 87-00 for assessment of its compliance with the requirements of 10 CFR 50.63. The assessment used the "AC-Independent" approach outlined in NUMARC 87-00 for its coping capability. In this approach, plants rely on available process steam, dc power and compressed air to operate equipment necessary to achieve and maintain hot shutdown. The required SBO coping duration for Salem Generating Station is calculated as 4 hours in accordance with the methods provided in NUMARC 87-00.

The preliminary results of the analysis establishes that:

- 1) adequate condensate inventory is available for decay heat removal,
- 2) the plant class 1E batteries have adequate capacity to supply all SBO dc and inverter loads for four hours with minimal manual load stripping; modifications and/or procedures will be in place to maintain the battery room at the required temperature,
- 3) the SBO equipment will be operable in the elevated room temperatures due to loss of ventilation,
- 4) containment isolation capability will be maintained to ensure containment integrity and
- 5) the plant compressed air system will require modification to be able to provide adequate compressed air needed to cope with the SBO and to shut down the Non Blackout unit.

These results provide adequate assurance that Salem Generating Stations Units 1 and 2 shall be able to withstand and recover from a station blackout event for a coping duration of four hours.

The plant Emergency Operating Procedures and other related plant procedures will be revised as required to include results of this analysis. Appropriate plant personnel will be trained in the revised/new plant procedures.

ATTACHMENT 2

SUMMARY OF STATION BLACKOUT COPING ANALYSIS HOPE CREEK GENERATING STATION

The Code of Federal Regulations 10 CFR Part 50.63, Loss of all Alternate Current Power, requires that "Each light water-cooled nuclear power plant licensed to operate must be able to withstand for a specified duration and recover from a station blackout...". The guidelines for complying with this regulation are provided in USNRC Regulatory Guide 1.155, dated August 1988, and Nuclear Management and Resources Council document NUMARC 87-00, dated November 1987.

A Hope Creek Generating Station, Station Blackout analysis has been performed in accordance with the guidelines provided in RG 1.155 and NUMARC 87-00 for assessment of its compliance with the requirements of 10 CFR 50.63. The assessment used the "AC-Independent" approach outlined in NUMARC 87-00 for its coping capability. In this approach, plants rely on available process steam, dc power and compressed air to operate equipment necessary to achieve and maintain hot shutdown. The required SBO coping duration for Hope Creek Generating Station is calculated as 4 hours in accordance with the methods provided in NUMARC 87-00.

The preliminary results of the analysis establishes that:

- 1) adequate condensate inventory is available for decay heat removal,
- 2) the plant class 1E batteries have adequate capacity to supply all SBO dc and inverter loads for four hours with no manual load stripping,
- 3) the SBO equipment will be operable in the elevated room temperatures due to loss of ventilation,
- 4) containment isolation capability will be maintained to ensure containment integrity, and
- 5) the plant compressed air system is not essential to cope with the SBO.

These results provide adequate assurance that Hope Creek Generating Station shall be able to withstand and recover from a station blackout event for a coping duration of four hours.

The plant Emergency Operating Procedures and other related plant procedures will be revised as required to include results of this analysis. Appropriate plant personnel will be trained in the revised/new plant procedures.