



PSEG

Public Service
Electric and Gas
Company

80 Park Plaza, Newark, NJ 07101 / 201 430-8217 MAILING ADDRESS / P.O. Box 570, Newark, NJ 07101

Robert L. Mittl General Manager
Nuclear Assurance and Regulation

October 1, 1985

Director of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
7920 Norfolk Avenue
Bethesda, Maryland 20814

Attention: Mr. Walter Butler, Chief
Licensing Branch 2
Division of Licensing

Gentlemen:

REQUEST FOR ADDITIONAL INFORMATION - LOSS OF ALL CONTROL
ROOM VENTILATION
HOPE CREEK GENERATING STATION
DOCKET NO. 50-354

Pursuant to the request for additional information on the loss of all control room ventilation dated September 4, 1985, an analysis was performed on the effect of the loss of ventilation and cooling to the control room and electrical equipment room. As the ventilation systems for the control room and electrical equipment rooms are independent, a separate analysis was performed for each.

The initial conditions used in the analyses were based on the normal plant operating temperatures; 76°F in the control room and 83°F in the electrical equipment room. It was assumed the remaining HVAC systems continue to function and that normally operating components in the affected rooms remained energized.

The maximum design ambient temperature limit for the equipment and control panels is 104°F. This ensures that the component operating temperatures are not exceeded. The rate of temperature rise in the control room and electrical equipment room is shown on the attached figure. The control room operator has ample time; 7 hours for the control room and 3.5 hours for the electrical equipment room, to decide whether to continue normal operation while efforts are being made to bring the disabled ventilation systems back on line, or revert to existing procedures to shutdown the unit.

The Energy People

8510030031 851001
PDR ADOCK 05000354
F PDR

Boo!
11

10/1/85

Even though separate and redundant ventilation equipment is provided and the failure of both emergency trains is very remote, the analysis indicates that the operator has sufficient time to assess the situation and take appropriate action. In addition, it should be noted that there are several actions the operators can take to mitigate the effects of this type of condition, such as opening doors and installing temporary fans.

Temperature elements are located in the control room such that a representative control room ambient temperature is sensed and the operator can monitor the temperature in accordance with the surveillance requirements of Technical Specification 4.7.2.

Should you have any questions in this regard, please contact us.

Very truly yours,



Attachment

C D. H. Wagner
USNRC Licensing Project Manager

A. R. Blough
USNRC Senior Resident Inspector

CONTROL & ELECTRICAL EQUIPMENT RMS

