

MAY 28 1992

Docket No. 50-354

Public Service Electric & Gas Company
ATTN: Mr. Steven E. Miltenberger
Vice President and
Chief Nuclear Officer

Post Office Box 236
Hancocks Bridge, New Jersey 08038

Dear Mr. Miltenberger:

Subject: ELECTRICAL DISTRIBUTION SYSTEM FUNCTIONAL INSPECTION OF
HOPE CREEK GENERATING STATION (REPORT NO. 50-354/92-80)

This letter transmits the report of the Electrical Distribution inspection conducted by Mr. Leonard Cheung and other NRC personnel from January 27 to February 14, 1992, at Hope Creek Generating Station at Hancocks Bridge, New Jersey. Mr. Cheung discussed the team's findings with Mr. R. Swanson and other members of your staff at the conclusion of the inspection on February 14, 1992, and with Mr. J. Hagan in a subsequent telephone call on March 4, 1992. The purpose of this inspection was to determine whether the electrical distribution system (EDS) as designed, installed, and configured at Hope Creek would be capable of performing its intended safety functions. In addition, an assessment of engineering and technical support relative to the electrical distribution system was performed.

This inspection was directed toward areas important to public health and safety. Areas examined included the design, installation, testing, and maintenance of the offsite power supply and the onsite power supply systems. Items covered included the emergency diesel generators, power transformers, fast and slow transfer scheme, circuit breakers, batteries, and battery chargers. Within these areas, the inspection consisted of selective examinations of the electrical distribution system design calculations, relevant procedures and representative records, installed equipment, interviews with personnel, and observations by the inspectors. The inspection team concluded that the electrical distribution system at Hope Creek is capable of performing its intended function, and the engineering organization provides adequate engineering support for the safe operation of the plant.

Based upon the results of this inspection, three of your activities appear to deviate from the Hope Creek UFSAR, as indicated in the Notice of Deviation, enclosed as Appendix A. You are requested to respond to the Notice of Deviation. In preparing your response, you should follow the instructions in Appendix A.

9206090232 920528
PDR ADOCK 05000354
PDR
Q

4F:01
11

MAY 28 1992

Public Service Electric
and Gas Company

2

The team's findings raised some concerns in the design and maintenance of the Hope Creek electrical distribution system. These concerns are: 1) the potential flip-flop problem in the offsite power supply to your Class 1E 4160 Vac bus during LOCA load sequencing; 2) the degraded grid voltage setpoint study; 3) the adequacy and thoroughness of your engineering review in 1985 in response to the Service Information Letter (SIL) issued by the emergency diesel generator (EDG) manufacturer; 4) the EDG day tank capacity not meeting the Hope Creek FSAR commitment; and 5) the fuel oil storage for 7-day EDG operation not meeting the Hope Creek FSAR commitment.

We have received your letter NLR-N92022, dated February 26, 1992. The information and commitments stated in the letter were incorporated into the enclosed inspection report.

Some of the unresolved items were conveyed to your staff in the March 4, 1992, telephone call and were not addressed in your February 26, 1992, letter. We request that you provide to us, in writing, within 30 days of receipt of this letter, a schedule for the resolution of unresolved items 92-80-10, 92-80-15, and 92-80-16. These items are discussed in paragraphs 4.1, 4.2.4 and 4.2.9, respectively, of the inspection report.

Your cooperation with us in this matter is appreciated.

Sincerely,

ORIGINAL SIGNED BY
WAYNE D. LANNING

Wayne D. Lanning, Deputy Director
Division of Reactor Safety

Enclosure: NRC Inspection Report No. 50-354/92-80 with Notice of Deviation

MAY 28 1992

Public Service Electric
and Gas Company

3

cc w/encl:

S. LaBruna, Vice President-Nuclear Operations
J. Isabella, Director, Generation Projects Department,
Atlantic Electric Company
J. J. Hagan, General Manager - Hope Creek Operations
F. Thomson, Manager - Licensing and Regulation
J. T. Robb, Director, Joint Owner Affairs
A. C. Tapert, Program Administrator
R. Fryling, Jr., Esquire
M. J. Wetterhahn, Esquire
J. Lipoti, State of New Jersey
Lower Alloways Creek Township
K. Abraham, PAO (2)
Public Document Room (PDR)
Local Public Document Room (LPDR)
Nuclear Safety Information Center (NSIC)
NRC Resident Inspector
State of New Jersey

bcc w/encl:

Region I Docket Room (with concurrences)
W. Ruland, DRS
J. White, DRP
R. Lobel, EDO
E. Wenzinger, DRP
S. Dembek, NRR
B. Norris, DRP
DRS SALP Coordinator
J. Stone, Licensing Project Manager, NRR

bcc w/Executive Summary Only:

C. Hehl, DRP
J. Wiggins, DRP
L. Bettenhausen, DRS
C. Miller, PDI-2, NRR

che
RI:DRS
Cheung

5/1/92

RI:DRS
Ruland
5/1/92

RI:DRS
Anderson
cfa
5/27/92

Lanning
RI:DRS
Lanning
5/27/92

OFFICIAL RECORD COPY
A:EDSFLHC