

U.S. NUCLEAR REGULATORY COMMISSION
OFFICE OF INSPECTION AND ENFORCEMENT

Region I

Report No. 50-354/81-06
50-355/81-06
50-354
Docket No. 50-355
CPPR-120
License No. CPPR-121 Priority -- Category A

Licensee: Public Service Electric and Gas Company

80 Park Plaza - 17C

Newark, New Jersey 07101

Facility Name: Hope Creek Generating Station, Units 1 and 2

Meeting at: Hancock s Bridge, New Jersey

Meeting conducted: April 30, 1981

Inspectors: W. H. Bateman
W. H. Bateman, Senior Resident Inspector

5/4/81
date signed

date signed

date signed

Approved by: E. G. Greenman
E. G. Greenman, Chief, Reactor Projects
Section 2A

5-20-81
date signed

Meeting Summary:

Meeting on April 30, 1981 (Combined Report Nos. 50-354/81-06 and 50-355/81-06)

Scope: Special, announced management meeting to discuss the results of the Region I board convened to evaluate the licensee's performance from November 1, 1979 to October 31, 1980 as part of the NRC's SALP program. Areas addressed included but, were not limited, to Quality Assurance; Piping and Hangers; Reporting; and Management.

Results: A summary of the licensee performance evaluation was presented. Areas of concern were discussed with corporate and site management. No new enforcement actions were identified, however, two areas where improvement is necessary were identified.

DETAILS

1. Attendees

Public Service Electric and Gas Company (PSE&G)

J. T. Boettger, General Manager, Corporate QA
A. E. Giardino, Project QA Engineer
P. J. Kudless, Project Construction Manager
A. Nassman, Manager, QA Engineering and Construction

Bechtel Power Corporation (Bechtel)

D. L. Long, Project Superintendent
G. Moulton, Project QA Engineer

United State Nuclear Regulatory Commission (USNRC)

W. H. Bateman, Senior Resident Inspector, Hope Creek
E. J. Brunner, Acting Director, DRPI
E. G. Greenman, Chief, Reactor Projects 2A, DRPI

2. Discussion

A brief summary of the Systematic Assessment of Licensee Performance (SALP) Program was presented to explain the basis and purpose of the evaluation.

The NRC Region I evaluation board meeting was discussed, including the appraisal period, performance data and the results of the board's evaluation. (See Appendix 1 and Attachments 1 and 2.)

The licensee's overall performance was considered acceptable although two areas will receive increased inspection effort by Region I to determine the effectiveness of the licensee's program improvements in those areas. These two areas of concern were identified to corporate and site management.

SYSTEMATIC ASSESSMENT OF LICENSEE PERFORMANCE
HOPE CREEK GENERATING STATION
REGION I EVALUATION BOARD MEETING

Facility: Hope Creek Generating Station Units 1 and 2

Licensee: Public Service Electric and Gas Company

Unit Identification:

<u>Docket No.</u>	<u>Licensee No./Date of Issuance</u>		<u>Unit No.</u>
50-354	CPPR-120	November 4, 1974	Unit 1
50-355	CPPR-121	November 4, 1974	Unit 2

Reactor Information:	<u>Unit 1</u>	<u>Unit 2</u>
NSSS	General Electric	General Electric
MWt	3293	3293

Assessment Period: November 1, 1979 to October 31, 1980

Evaluation Board Meeting Date: January 19, 1981

Evaluation Board Members:

- B. J. Grier, Director, Region I
- J. M. Allan, Deputy Director, Region I
- E. J. Brunner, Acting Director, Division of Resident and Project Inspection
- R. T. Carlson, Director, Enforcement and Investigation Staff
- W. G. Martin, Assistant to the Director
- R. J. Bores, Chief, Independent and Environmental Protection Section
- J. Kerrigan, Licensing Project Manager (Salem 2), NRR

Other NRC Attendees: W. H. Bateman, Senior Resident Inspector, Region I

BASIC PERFORMANCE DATA

Hope Creek Generating Station

Assessment Period: November 1, 1979 to October 31, 1980

A. Number and Nature of Noncompliance Items

1. Noncompliance category:	<u>Unit 1</u>	<u>Unit 2</u>
Violations	0	0
Infractions	10 + (4)	1 + (4)
Deficiencies	1	0
2. Areas of Noncompliance:	<u>(Vio/Inf/Def)</u>	<u>(Vio/Inf/Def)</u>
Quality Assurance	0/2+(1)/0	0/0+(1)/0
Concrete	0/1+(1)/0	0/1+(1)/0
Safety-Related Structures	0/2+(2)/0	0/0+(2)/0
Piping and Hangers (Reactor Coolant and Others)	0/4/0	0/0/0
Safety-Related Components (Vessel, Internals, and HVAC)	0/1/1	0/0/0

B. Number and Nature of Construction Deficiency Reports

1. Type of Events:	<u>Unit 1</u>	<u>Unit 2</u>
A. Personnel Error	4	2
B. Design/Fabrication Error	0	1
C. External Cause	2	0
TOTAL	6	3

Causally-Linked Events: None identified.

C. Escalated Enforcement Actions

- Civil Penalties
None
- Orders
None
- Immediate Action Letters
None
- Other Escalated Enforcement
None

D. Management Conferences Held During Past Twelve Months

No enforcement related management conferences were held during the assessment period. There was, however, a routine meeting held with the licensee management at the licensee corporate office to discuss the following: (a) Hope Creek project status, (b) status of FSAR, (c) resident inspection program, (d) NRC independent measurements program, (e) NRC programs underway to evaluate licensee performance, (f) 10 CFR 50.55(e) reporting, and (g) enforcement policy.

E. Licensee Activities

Activity on both units varied extensively over the evaluation period because of a strike by the pipefitters local in May of 1980 and subsequent large scale layoffs of other trades. Prior to the strike the total site work force was approximately 3000. During the strike period the work force dropped to approximately 200. After settlement of the strike in early June, 1980, the work force gradually increased to approximately 1400 by the end of the evaluation period.

Prior to the strike there was extensive activity in the areas of concrete placement, containment erection, structural steel erection, and reactor pressure vessel (RPV) nozzle modification for both Units 1 and 2. Unit 1 piping installation was also in progress.

Simultaneously with the strike, the licensee announced a delay in the commercial operation dates of Units 1 and 2 from May, 1985 and May, 1987 to December, 1986 and December, 1989, respectively. As a result of this delay, resumption of work activity, post strike settlement, was limited on Unit 1 and nearly non-existent on Unit 2. Unit 1 activity was in the same areas as before the strike but limited to safety related work and Unit 2 activity involved minor concrete placements.

Milestones accomplished during the evaluation period included completion of erection and overpressure testing of Unit 1 containment, commencement of work on service water intake structure, completion of Unit 1 RPV nozzle modification, and commencement of Unit 2 containment erection.

F. Inspection Activities

The construction resident inspection program was implemented in February, 1980. Resident inspector activities involved accomplishment of assigned inspection requirements including observation of work in progress and evaluation of licensee responses to outstanding items. Nine inspection reports were issued by the resident inspector for each of the 2 units.

Prior to implementation of the construction resident program, three inspections of Unit 1 and two inspections of Unit 2 were conducted by project inspectors during the assessment period. These inspections involved observation of work in progress, completed work, records review, and resolution of outstanding items.

Nine inspections were performed by regionally based specialist inspectors. The particular activities inspected were concrete, non-destructive examination, pipe welding, RPV nozzle replacement, records, QA/QC procedures, site work procedures, cable tray installation, and resolution of outstanding items.

HOPE CREEK GENERATING STATION
INSPECTION PROGRAM CHANGES

INSPECTION TIME AND/OR SCOPE
 CHANGE FROM PRESCRIBED INSPECTION PROGRAM

FUNCTIONAL AREA	INCREASE	NO CHANGE	DECREASE
1. Quality Assurance	X		
2. Substructure and Foundations		X	
3. Concrete		X	
4. Steel Containment		X	
5. Safety-Related Structures		X	
6. Piping and Hangers (Reactor Coolant and Others)	X		
7. Safety-Related Components (Vessel, Internals, and HVAC)		X	
8. Electrical Equipment		X	
9. Electrical (Tray and Wire)		X	
10. Instrumentation		X	
11. Fire Protection		X	
12. Preservice Inspection		X	
13. Reporting		X	
14. Environmental		X	
15. Training		X	
16. Management		X	

Bence H. Schiel
 Regional Director

Date *January 19, 1981*