

APR 4 1985

Docket No: 50-354

MEMORANDUM FOR: Thomas M. Novak, Assistant Director  
for Licensing  
Division of Licensing

FROM: William V. Johnston, Assistant Director  
Materials, Chemical & Environmental Technology  
Division of Engineering

SUBJECT: GDC 51 COMPLIANCE REVIEW: PUBLIC SERVICE ELECTRIC  
AND GAS COMPANY - HOPE CREEK UNIT 1

Plant Name: Hope Creek Generating Station, Unit 1  
Suppliers: General Electric, Bechtel  
Licensing Stage: OL  
Docket Number: 50-354  
Responsible Branch & Project Manager: LB#2; D. Wagner  
Reviewer: B. Elliot  
Requested Completion Date: Open  
Description of Task: SER Re GDC 51 Compliance  
Review Status: Complete

Based on the commitments by the applicant in a letter dated March 12, 1985,  
we have completed our review of Hope Creek Generating Station's compliance  
with GDC 51. Our supplementary input to the Hope Creek SER Section 6.2.7  
is attached.

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William V. Johnston, Assistant Director  
Materials, Chemical & Environmental  
Technology  
Division of Engineering

Attachment: As Stated

cc: J. P. Knight  
H. Thompson  
E. Sullivan  
S. Pawlicki  
B. D. Liaw  
A. Schwencer  
W. Hazelton  
R. Klecker  
C. Cheng  
D. Wagner  
B. Elliot

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ME	: B. Elliot	vt: W. Hazelton	B. D. Liaw	W. Johnston	:	:	:
DATE	: 4/3/85	: 4/3/85	: 4/3/85	: 4/4/85	:	:	:

CF

ATTACHMENT

SUPPLEMENTARY SAFETY EVALUATION REPORT  
PUBLIC SERVICE ELECTRIC AND GAS COMPANY  
HOPE CREEK GENERATING STATION

MATERIALS APPLICATION SECTION  
MATERIALS ENGINEERING BRANCH

Section 6.2.7 Fracture Prevention of Containment Pressure Boundary

In our previous input to this section of the Hope Creek SER, we indicated that all ferritic components in the Hope Creek containment pressure boundary, except for 24 in. check valves (1F074 A and B), have sufficient fracture toughness to meet GDC-51. To provide reasonable assurance that these valves will comply with GDC-51, we indicated that the applicant must commit to an augmented ISI program. The SER indicated that the outer and inner valve body surface must be inspected at the first refueling outage and at other times when the valve is disassembled for maintenance. The applicant in a letter dated March 12, 1985 indicates that the inspection program will be implemented at the first refueling outage and will include inspection of the entire surface of the valve bodies, both internal and external, by surface or other examinations acceptable to the staff. A more detailed program would be provided when the licensee submits its ISI Program for Hope Creek, which is scheduled for submittal for staff review six months after commercial operation. Based on these commitments, we have concluded that there is reasonable assurance these valves will comply with the requirements of GDC 51.