



PSEG Public Service
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Company

80 Park Plaza, Newark, NJ 07101 / 201 430-7000 MAILING ADDRESS / P.O. Box 570, Newark, NJ 07101

April 15, 1983

Director of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
7920 Norfolk Avenue
Bethesda, Maryland 20014

Attn: Mr. Albert Schwencer, Chief
Licensing Branch 2
Division of Licensing

Gentlemen:

HOPE CREEK GENERATING STATION
DOCKET NO. 50-354
FSAR SUBMITTAL

This letter is to inform you that Section 3.8.4.8 of Hope Creek Generating Station Final Safety Analysis Report was not included in the document as submitted to the Nuclear Regulatory Commission on March 1, 1983. Section 3.8.4.8 presents the justification for the deviations from Standard Review Plan Section 3.8.4 identified in Final Safety Analysis Report Table 1.11-1.

In addition, please note that additional deviations from Standard Review Plan Sections 3.8.2 and 3.8.3 have been identified, concerning the preparation of structural design reports for category I structures, and compliance to ACI 349 for interior containment structures, respectively.

We are forwarding at this time, for your information and use, copies of the text for Hope Creek Generating Station Final Safety Analysis Report Section 3.8.4.8, additional Final Safety Analysis Report Standard Review Plan Rule Review Section 3.8.2.8.3, and revised Final Safety Analysis Report Table 1.11-1 page 4 of 25. This information will be formally incorporated into the Hope Creek Generating Station Final Safety Analysis Report as part of the first amendment.

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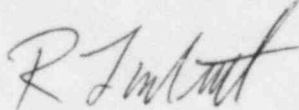
Director of Nuclear
Reactor Regulation

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Should you have any questions regarding this transmittal, do not hesitate to contact us.

Very truly yours,

A handwritten signature in cursive script, appearing to read "R. L. Mittl".

R. L. Mittl
General Manager -
Nuclear Assurance and Regulation

DJD:li

Attachment

CC: D. H. Wagner
USNRC Licensing Project Manager

EH2

3.8.4.8 SRP Rule Review

Acceptance criteria II.2 of SRP Section 3.8.3 and 3.8.4 requires Category I structures be designed in accordance with Specification ACI 349 as augmented by Regulatory Guide 1.142. The Hope Creek Generating Station design was based on the requirements of Specification ACI 318-71.

The Category I structures concrete design for Hope Creek Generating Station began prior to the issue of Specification ACI 349 (1976). As a result, all concrete design is based on using Specification ACI 318-71 with the following clarification:

The load combinations used are in conformance with ACI 349 except that the 0.9 load factor on dead load as required by Regulatory Guide 1.142 was not used.

Based on parametric analyses, an adequate design margin exists to compensate for the effects of not using the reduced dead load factor.

3.8.2.8.3 SRP Rule Review

Acceptance criteria II.4f of SRP Section 3.8.2 and the relevant acceptance criteria of SRP Sections 3.8.3, 3.8.4 and 3.8.5 require that a design report be prepared and is considered acceptable if it contains the information specified in Appendix C of SRP Section 3.8.4.

Sufficient information is provided in the HCGS FSAR to outline the structural design of the Seismic Category I structures. This information includes such items as structural description and geometry, load combinations, materials used, applicable codes and standards, and computer codes, as required by Regulatory Guide 1.70, Revision 3. As required by 10CFR50 Appendix B, information is also available to enable an audit of these Seismic Category I structures to inspect and verify their structural integrity. The information available for such an audit is consistent with the information requested in Appendix C to SRP 3.8.4.

TABLE 1.11-1 (Cont.)

Section	Acceptance Criteria	Differences	Discussed
3.7.3 (Rev. 1)	II.2.b Five operating basis earthquakes (OBEs), with a minimum of 10 cycles each, should be assumed during the plant life.	For NSSS components and equipment, 10 equivalent peak OBE cycles are used.	3.7.3.16
3.8.2 (Rev. 1)	II.4.d An analysis is to be performed to determine the ultimate pressure retaining capacity of the primary steel containment.	On Hope Creek this analysis has not been performed.	3.8.2.8
	II.4.f Design report is considered acceptable when it satisfies the guidelines of Appendix C to SRP 3.8.4.	Sufficient information is available in forms other than those outlined in Appendix C.	
	II.5 Table 3.8.2 lists allowable stress limits for steel containments.	Allowable stresses used for testing and post-flooding conditions are higher than indicated in SRP Table 3.8.2.	
3.8.3 (Rev. 1)	II.2 Interior structures of containment shall be designed in accordance with specification ACI 349 as augmented by Regulatory Guide 1.142.	Interior structures are designed in accordance with specification ACI 318-71.	3.8.4.8

TABLE 1.11-1 (Cont.)

Section	Acceptance Criteria	Differences	Discussed
	II.3.c(ii)(b)		
	Load factors for steel interior structures are specified when plastic design methods are used.	Design is based on Energy Balance methods.	3.8.3.8
	II.4.e		
	Design report described in Appendix C to SRP 3.8.4 is reviewed.	Sufficient information is available in forms other than those outlined in Appendix C.	3.8.2.8
3.8.4 (Rev. 1)	II.2		
	Category I structures shall be designed in accordance with Specification ACI 349 as augmented by Regulatory Guide 1.142.	Category I structures re designed in accordance with Specification ACI 318-71.	3.8.4.8
	II.2		
	Conformance to Regulatory Guides. 1.10, 1.55, and 1.94.	Nonconformance, in part, with Regulatory Guides 1.10, 1.55, and 1.98.	3.8.1
	II.4.d		
	Design reports are acceptable if it contains the information specified in Appendix C.	Sufficient information is available in forms other than those outlined in Appendix C.	3.8.2.8
3.8.5 (Rev. 1)	II.4.e		
	Design report is considered acceptable if it satisfies the guidelines of Appendix C to SRP 3.8.4.	Sufficient information is available in forms other than those outlined in Appendix C.	3.8.2.8