



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

MAR 7 1984

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MEMORANDUM FOR: R. Wayne Houston, Assistant Director for Reactor Safety, DSI

FROM: Walter R. Butler, Chief, Containment Systems Branch, DSI

SUBJECT: CSB RELATED INPUT RE: RE-REVIEW OF THE GRAND GULF, UNIT 1
TECHNICAL SPECIFICATIONS (TAC #54185)

Reference: Memorandum from R. J. Mattson to R. W. Houston et al,
dated February 27, 1984

The Containment Systems Branch (CSB) has completed its re-review of the Technical Specifications (TS) for Grand Gulf, Unit 1. The objective of the re-review was to verify that the TS were properly derived from the analyses and evaluations included in the FSAR. The CSB review was focused on TS Section 3/4.6 as it compares with FSAR Section 6.2.

Enclosure (1) identifies the specific TS sections that were reviewed by the CSB. Enclosure (2) identifies differences between the TS and FSAR. Enclosure (3) contains our recommended changes for the Grand Gulf TS, assuming the recommendations from our last TS review (November 1983) will be adopted. These prior changes have not been incorporated in the present version of the TS. We consider the most significant finding from our TS re-review to be the non-implementation of our prior recommendations.

Another item that was uncovered during the re-review is an apparent discrepancy in the acceptance value of the inleakage for the secondary containment. TS Surveillance Requirements Section 4.6.6.1.b.2 indicates a flow rate of 4000 cfm. Based on conversations with the AEB, the flow rate should be changed to 2300 cfm to be consistent with the AEB evaluation. This item will be discussed further with the applicant and AEB to assure proper implementation into the TS of the more conservative value. There also were several numerical discrepancies as identified in Enclosure (2). We consider these differences to have no impact on containment response analyses and therefore no changes to the TS are recommended.

The CSB has also reviewed the TS basis section which summarizes the reasons for the specifications. The TS basis section is not part of the TS. However, for completeness, we had reviewed this section which corresponds to the topics in Enclosure (1). Certain parameters in basis Sections 3/4.6.1.7, 3/4.6.2.5 and 3.4.6.3 do not appropriately reflect the main TS sections. Accordingly, we recommend the following changes:

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- (1) Regarding basis section 3/4.6.1.7, the containment to auxiliary building differential pressure is limited to -0.1 and 1.0 psid rather than -2.0 to 0. psid.
- (2) Regarding basis section 3/4.6.2.5, the maximum external drywell pressure differential is limited to 0.1 psid rather than 1.0 psid.
- (3) Regarding basis section 3/4.6.3, the minimum suppression pool volume should be 135,291 cubic feet rather than 136,146 cubic feet.

Walter R. Butler

Walter R. Butler, Chief
Containment Systems Branch
Division of Systems Integration

Enclosures:
As stated

cc: R. Capra
D. Houston
D. Hoffman
J. Read
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ENCLOSURE (1)

GRAND GULF, UNIT 1 - TECHNICAL SPECIFICATIONS:

LIMITING CONDITIONS FOR OPERATION AND SURVEILLANCE REQUIREMENTS

THE CONTAINMENT SYSTEMS BRANCH SCOPE OF REVIEW:

3/4.6.1 PRIMARY CONTAINMENT

3.6.1.1 Primary Containment Integrity

3.6.1.2 Containment Leakage

3.6.1.3 Containment Air Locks

3.6.1.5 Feedwater Leakage Control System

3.6.1.6 Containment Structural Integrity

3.6.1.7 Containment Internal Pressure

3.6.1.8 Containment Average Air Temperature

3.6.1.9 Containment Purge System

3/4.6.2 DRYWELL

3.6.2.1 Drywell Integrity

3.6.2.2 Drywell Bypass Leakage

3.6.2.3 Drywell Air Locks

3.6.2.4 Drywell Structural Integrity

3.6.2.5 Drywell Internal Pressure

3.6.2.6 Drywell Average Air Temperature

3/4.6.3 DEPRESSURIZATION SYSTEMS

3.6.3.1 Suppression Pool

3.6.3.2 Containment Spray

3.6.3.3 Suppression Pool Cooling

3.6.3.4 Suppression Pool Makeup System

3/4.6.4 CONTAINMENT AND DRYWELL ISOLATION VALVES

3/4.6.5 DRYWELL POST-LOCA VACUUM BREAKERS

3/4.6.6 SECONDARY CONTAINMENT

3.6.6.1 Secondary Containment Integrity

3/4.6.7 ATMOSPHERE CONTROL

3.6.7.1 Containment and Drywell Hydrogen Recombiner Systems

3.6.7.2 Containment and Drywell Hydrogen Ignition System

3.6.7.3 Drywell Purge System

5.2 CONTINUED

ENCLOSURE (2)

GRAND GULF TECHNICAL SPECIFICATIONS/FSAR COMPARISON

3/4.6.3.

(1) Maximum suppression pool water volume:

Tech. Spec. Page 3/4 6-20

/ FSAR Table 6.2-50

138,851 cubic feet

138,701 cubic feet

(2) Max/Min equivalent suppression pool water level:

Tech. Spec. Page 3/4 6-20

/ FSAR Table 6.2-50

18'10"

18'9-3/4"

18'4-3/4"

18'4-1/12"