



Log # TXX-94208
File # 10010

TUELECTRIC

William J. Cahill, Jr.
Group Vice President

August 31, 1994

U. S. Nuclear Regulatory Commission
Attn: Document Control Desk
Washington, DC 20555

SUBJECT: COMANCHE PEAK STEAM ELECTRIC STATION (CPSES)
DOCKET NOS. 50-445 AND 50-446
FSAR AMENDMENT 92 DESCRIPTION

REFERENCE: NRC letter from Thomas A. Bergman to William J. Cahill Jr.,
dated April 14, 1994

Gentlemen:

Amendment 92 to the CPSES FSAR was transmitted to you under a separate cover letter TXX-94207, dated August 31, 1994. The attachment to this letter provides line-by-line descriptions of the changes in Amendment 92. FSAR pages which do not have technical changes but are included in the amendment (because they are the opposite side of the sheet from a page that was changed, because the change shifted the existing material to another page or because only editorial changes were made on these pages) are not discussed in the attachment.

All changes contained in Amendment 92 have been reviewed under the TU Electric 10CFR50.59 process and found not to include any "unreviewed safety questions."

All but eight NRC Questions and Response (Q&Rs) were incorporated into the FSAR by previous amendments. The remaining Q&Rs are incorporated by this amendment, as described and justified in the attachment to this letter. Because the Q&R related material is now contained in the appropriate sections of the FSAR, the NRC Question and Response section of the FSAR is being deleted by this amendment. As a result of this deletion the number of volumes is being reduced from 17 to 15. The Volume Table of Contents has been revised to improve the distribution of material in the remaining 15 FSAR volumes.

Amendment 92 also includes a major re-formatting and consolidation of Chapters 4 and 15 to relocate relevant cycle specific information into Appendices 4A and 4B for Units 1 and 2, respectively. The chapters have also been clarified and simplified by removing information which is historical and no longer relevant, or is excessively detailed.

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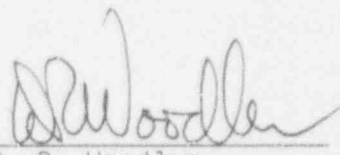
400 N. Olive Street L.B. 81 Dallas, Texas 75201

A053

It is anticipated that the next FSAR amendment, scheduled to be transmitted by February 2, 1995, will convert the FSAR into an updated FSAR in accordance with the requirements of 10CFR50.55(e) and the exemption granted by the NRC in the referenced letter.

Sincerely,

William J. Cahill, Jr.

By: 
D. R. Woodlan
Docket Licensing Manager

BSD
Attachment

c - Mr. L. J. Callan, Region IV
Resident Inspectors, CPSES (2)
Mr. T. A. Bergman, NRR

CPSSES - FINAL SAFETY ANALYSIS REPORT (FSAR)
 AMENDMENT / REVISION 92
 DETAILED DESCRIPTION

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 (as amended)

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Table 1.6-1	3	<p>See Sheet No(s) :9 & 10 Adds various TU Electrical reload analysis topical reports. Update : All the listed topicals have been reviewed and approved by the NRC. All the topicals with the exception of RXE-91-005, "Methodology for Reactor Core Response to Steamline Break Event," have also been added to the Technical Specifications Section 6.9.1.6b via License Amendments 21 (Unit 1) and 7 (Unit 2). A request to include the steamline break methodology in TS 6.9.1.6b was submitted by TU Electric letter TXX-94057 dated March 28, 1994. Change Request Number : SA-93-96.1 Commitment Register Number : Related SER : 15 SSER : SER/SSER Impact : No</p>
1A(B)-52	2	<p>Adds under the discussion of Regulatory Guide 1.75 for regulatory position C.6, that minimum physical separation between class 1E cables and non class 1E differential protection cables are not required inside the 6.9kv class 1E switchgear. Addition : The differential protection relay cables from 6.9kv class 1E preferred/alternate source breaker CTs are designed such that they will function adequately and will not fail due to circuit voltage and current conditions to which these might be exposed due to open and short circuit conditions. Change Request Number : SA-93-82.1 Commitment Register Number : Related SER : 8.4.4 SSER :22 8.4.4 SER/SSER Impact : No</p>
1A(B)-53	2	<p>Adds under the discussion of Regulatory Guide 1.75 for regulatory position C.6, that there is no separation requirement from the Thermo-Lag protected cable, conduit or tray to the redundant cable, conduit or tray outside the Thermo-Lag enclosure. Addition : Thermo-Lag installation tests have demonstrated to protect internal cables from damage that could affect cable functionality. These tests are considered more intense and involve longer lasting fire exposure than from external cable fault. Additionally Thermo-Lag provides adequate protection to the outside cable from cable fault induced fire</p>

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inside the enclosure, since the fire resistance property of the material is same regardless of the fire direction.

Change Request Number : SA-94-3.1
Commitment Register Number :
Related SER : 8.4.4 SSER :22 8.4.4
SER/SSER Impact : No

1A(B)-85

- 3 Incorporate alternate method of testing the Diesel Generator Fuel Oil as per ASTM-D1796-1968.

Addition :

Recent EPA and IRS regulations requires mixing blue dye in various concentration to the Diesel fuel oil to differentiate from the high sulphur fuel. High sulphur fuel oil consumption results in higher pollution. Addition of blue dye in the diesel fuel oil results the testing of fuel oil difficult as per ASTM-D4176-1982. This change provides an alternate method of testing the fuel oil as per ASTM-D1796-1968 which determines the acceptability of water and sediment in new diesel fuel oil receipts. This change is consistent with the CPSES Technical Specification change (LAR 94-007) submitted to NRC by TXX-94099, march 30, 1994 and approved by NRC in License Amendment 24/10, dated May 13, 1994 for the CPSES Technical Specification.

Change Request Number : SA-94-24.
Commitment Register Number :
Related SER : 9.5.4 SSER :24 9.5.4
SER/SSER Impact : No

Figure 3.2-1

- 3 Adds figure notes 26 and 27 to clarify the requirements associated with caps on test connections, vent and drain valves (TVDs). Also adds a new cap symbol to identify containment isolation TVD caps.

Revision :

In Amendment 90 to the FSAR, the requirements associated with capping containment isolation valve test connections, vent and drain valves (TVDs) were clarified (See Note 8 in Table 6.2.4-2). This figure provides the symbols used in all FSAR figures. Notes 26 and 27 were added to be consistent with the clarification provided in Amendment 90. The notes differentiate those TVDs which must have caps (as described in Note 8 to Table 6.2.4-2), and all other TVDs which may have caps optionally and are under different administrative controls. The new containment isolation cap symbol is used in FSAR figures to identify required containment isolation TVD caps.

Change Request Number : SA-93-138.1
Commitment Register Number :

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(as amended)

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Related SER : 6.2 SSER :22 6.2.3
SER/SSER Impact : No

4.1-1 3 Generalizes paragraph to make it applicable to all cycle designs not just the initial cycle design.
Update :
Update to make section applicable to future core designs.
Change Request Number : SA-93-96.2
Commitment Register Number :
Related SER : 4 SSER :
SER/SSER Impact : No

4.1-1 4 See Sheet No(s) :3
Deletes Unit1 specific information describing fuel grid assembly.
Update :
Relevant cycle/unit specific information, including analysis methodologies, and methodology dependent results and assumptions are relocated to Appendices 4A and 4B for Unit 1 and unit 2 respectively.
Change Request Number : SA-93-96.3
Commitment Register Number :
Related SER : 4 SSER :
SER/SSER Impact : No

4.1-1 3 See Sheet No(s) :Chapter 4 and Chapter 15
Revises Chapter 4 and Chapter 15 to relocate relevant cycle specific information to new Appendices 4A and 4B for Units 1 and 2 respectively. In addition these chapters are updated to reflect recently approved analysis methodologies. Also, the chapters have been clarified and simplified by removing information which is historical, no longer relevant, or is excessively detailed.
Update :
As TU Electric transitions from accident analyses performed by the fuel vendor (Westinghouse) to analyses performed using in-house methodologies, frequent revisions to the Chapter 4 and Chapter 15 would be required. Even if Westinghouse were to continue to perform the accident analyses, it is likely that several of the accidents analyses would have to be redone on a cycle specific basis due to different fuel types, extended cycle lengths, operating margin improvements etc. The FSAR would require periodic updates to reflect the revised analyses. Finally, it is observed that the actual figures depicting the transient progression and sequence of events tables are not required to be included in the FSAR by the Standard Review Plan, 10CFR50.34 or 10CFR50.71. (This information was originally included based RG 1.70, to which CPSES is

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committed for format only.) Thus, the "Results", "Sequence of Events", and "Figures" sections of Chapter 15 can be deleted or (in some cases) revised. Information similar to that being deleted from the FSAR can be found in the referenced topical reports describing analyses methodologies or in the calculations supporting the cycle specific analyses summarized in Appendices 4A and 4B. The requirements of 10CFR50 Appendix K were considered in the update of FSAR Section 15.6.5.

In order to minimize the FSAR revisions required following a reload safety analysis, as much of the cycle specific and methodology specific information as possible is deleted from the FSAR Chapters 4 and 15. Key information, such as design criteria, transient descriptions, and event acceptance criteria are retained. Relevant cycle specific information is relocated to Appendix 4A and Appendix 4B for Unit 1 and Unit 2 respectively.

Methodologies are referenced to the appropriate docketed reports. Appendices 4A and 4B are essentially versions of the Reload Safety Evaluation performed prior to the

start of each cycle in accordance with the requirements of 10CFR50.59. Note that in later sections of this description letter, where an item is indicated to be "relocated to Appendices 4A and 4B", the item may be contained in a report referenced in those appendices.

In Chapter 15, even though the "Environmental Consequences" section is a "Results" section, the information is retained as it is frequently the basis for the NRC's acceptance of a particular analysis.

Change Request Number : SA-93-96.1
Commitment Register Number :
Related SER : 4 SSER :
SER/SSER Impact : No

4.1-3 4 Deletes discussion of Table 4.1-1A which compares CPSES design parameters to other nuclear plants.
Editorial :
The information provided in this comparison is historical and is below the level of detail necessary for the FSAR.

Change Request Number : SA-93-96.4
Commitment Register Number :
Related SER : 4 SSER :
SER/SSER Impact : No

4.1-3 4 Replaces reference to Table 4.1-2A and Table 4.1-3 with a reference to Appendices 4A and 4B.
Editorial :

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Relevant unit/cycle specific information, including analysis methodologies, and methodology dependent results and assumptions are contained in Appendices 4A and 4B for Unit 1 and unit 2 respectively.

Change Request Number : SA-93-96.5

Commitment Register Number :

Related SER : 4 SSER :

SER/SSER Impact : No

4.1-3 4 Deletes the reference section for FSAR Section 4.1.
Editorial :
Relevant unit/cycle specific information, including analysis methodologies, and methodology dependent results and assumptions are contained in Appendices 4A and 4B for Unit 1 and unit 2 respectively.
Change Request Number : SA-93-96.6
Commitment Register Number :
Related SER : 4 SSER :
SER/SSER Impact : No

Table 4.1-1A 4 Deletes Table 4.1-1A.
Editorial :
Comparisons of CPSES units to other nuclear plants represent historical information and excessive detail beyond the level necessary for the FSAR.
Change Request Number : SA-93-96.7
Commitment Register Number :
Related SER : 4 SSER :
SER/SSER Impact : No

Table 4.1-1B 4 Deletes Table 4.1-1B.
Editorial :
Comparisons of CPSES units to other nuclear plants represent historical information and excessive detail beyond the level necessary for the FSAR.
Change Request Number : SA-93-96.8
Commitment Register Number :
Related SER : 4 SSER :
SER/SSER Impact : No

Table 4.1-2 4 Deletes Table 4.1-2.
Editorial :
Relevant unit/cycle specific information, including analysis methodologies, and methodology dependent results and assumptions are contained in Appendices 4A and 4B for Unit 1 and unit 2 respectively.
Change Request Number : SA-93-96.9
Commitment Register Number :
Related SER : 4 SSER :
SER/SSER Impact : No

Table 4.1-3 4 Deletes Table 4.1-3.
Editorial :

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(as amended)

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- The design loading conditions are addressed in FSAR Section 4.2 and in Appendices 4A and 4B. This table is deleted to avoid duplication.
- Change Request Number : SA-93-96.10
Commitment Register Number :
Related SER : 4 SSER :
SER/SSER Impact : No
- 4.2-3 4 See Sheet No(s) : 4 & 5
Deletes references for properties of Zircaloy-4 mechanical and chemical properties.
Editorial :
This information already exists in FSAR Section 4.2.1.2.3 "Chemical properties".
Change Request Number : SA-93-96.12
Commitment Register Number :
Related SER : 4 SSER :
SER/SSER Impact : No
- 4.2-3 4 See Sheet No(s) : 7 & 8
Deletes the discussion of non-operational loads.
Editorial :
Non-operational loads represent allowances for shipping and handling loads. The specific design criterion is vendor specific and is below the level of detail required to be included in the FSAR.
Change Request Number : SA-93-96.11
Commitment Register Number :
Related SER : 4 SSER :
SER/SSER Impact : No
- 4.2-5 3 See Sheet No(s) : 6, 7, 14 thru 19
Adds information and generalizes and simplifies descriptions related to fuel design, fuel material, fuel rod performance, and spacer grid design so that the descriptions also apply to Siemens Power Corporation fuel not just the previously discussed Westinghouse fuel. Also relocates information and adds references to Appendices 4A and 4B for additional unit specific information.
Update :
CPSES uses multiple vendors' fuels. The section is updated to reflect new vendor fuels.
Change Request Number : SA-93-96.13
Commitment Register Number :
Related SER : 4 SSER :
SER/SSER Impact : No
- 4.2-10 4 Clarification :
Text is clarified in that specific fuel types are identified rather than indicating only Unit 1 or Unit 2.
Change Request Number : SA-93-96.14

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(as amended)

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Commitment Register Number :
Related SER : 4 SSER :
SER/SSER Impact : No

4

See Sheet No(s) :13

Deletes detailed description of burnable absorber material and burnable poison rod clad.

Editorial :

These descriptions are considered to be excessively detailed for the FSAR and are already contained in documents referenced in Appendices 4A and 4B for Unit 1 and Unit 2 respectively.

Change Request Number : SA-93-96.15

Commitment Register Number :

Related SER : 4 SSER :

SER/SSER Impact : No

4

The description of the absorber material in control rods is clarified to remove discussion of hafnium and B4C hybrid design.

Clarification :

CPSES use only silver-indium cadmium absorbers in the control rods.

Change Request Number : SA-93-96.16

Commitment Register Number :

Related SER : 4 SSER :

SER/SSER Impact : No

4

See Sheet No (s) : 46, 47, 48 & 51

Generalizes and simplifies discussion of burnable absorber material. Replaces excessively detailed descriptions with references to Appendices 4A and 4B.

Clarification :

The deleted descriptions are considered to be excessively detailed for the FSAR and are already contained in documents referenced in Appendices 4A and 4B for Unit 1 and Unit 2 respectively.

Change Request Number : SA-93-96.17

Commitment Register Number :

Related SER : 4 SSER :

SER/SSER Impact : No

4

See Sheet No(s) : 25

Deletes the unit specific descriptions of the primary source assemblies and revises referenced figures to show "typical" source assemblies.

Editorial :

The descriptions of the primary source assemblies are considered to be historical (they are used only for initial startup) and excessively detailed for this FSAR section. Relevant information and/or reference documents are contained in Appendices 4A

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and 4B for Unit 1 and Unit 2 respectively.
Change Request Number : SA-93-96.18
Commitment Register Number :
Related SER : 4 SSER :
SER/SSER Impact : No

- 4.2-25 3 See Sheet No(s) :26
Generalizes the discussion of thimble plug assemblies to make it applicable to both SPC and Westinghouse fuel designs. Also adds a reference to Appendices 4A and 4B for specific evaluations performed on SPC fuels.
Update :
CPSES uses multiple vendors' fuels. This FSAR section is updated to reflect new vendor (SPC) fuels.
Change Request Number : SA-93-96.19
Commitment Register Number :
Related SER : 4 SSER :
SER/SSER Impact : No
- 4.2-43 4 Editorial deletion of fuel identifier "standard" or "optimized".
Clarification :
Clarifies description by deleting the terminology since it applies only to Westinghouse fuel.
Change Request Number : SA-93-96.20
Commitment Register Number :
Related SER : 4 SSER :
SER/SSER Impact : No
- 4.2-54 3 Adds reference to the Siemens quality assurance program.
Clarification :
CPSES uses multiple vendors' fuels. This FSAR section is updated to reflect the SPC QA program used for SPC fuels.
Change Request Number : SA-93-96.21
Commitment Register Number :
Related SER : 4 SSER :
SER/SSER Impact : No
- 4.2-55 3 See Sheet No(s) :56 thru 61
The descriptions of Quality Control program, component testing and inspection and inservice surveillance is generalized to make it applicable to both Westinghouse and SPC programs.
Clarification :
CPSES uses multiple vendors' fuels. This FSAR section is updated to reflect the use of other vendor (i.e., SPC) fuels. Material that was deleted because it was excessively detailed for this section is located in the Section 4.2 references or in

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		Appendices 4A and 4B.
		Change Request Number : SA-93-96.22
		Commitment Register Number :
		Related SER : 4 SSER :
		SER/SSER Impact : No
4.2-62	3	Deletes Reference 9.
		Update :
		This reference is not applicable to current CPSES fuel assemblies or components.
		Change Request Number : SA-93-96.23
		Commitment Register Number :
		Related SER : 4 SSER :
		SER/SSER Impact : No
4.2-64	3	Adds new references 26, 27 and 28.
		Update :
		Additional references are included which are used when SPC fuel assemblies or components are used.
		Change Request Number : SA-93-96.24
		Commitment Register Number :
		Related SER : 4 SSER :
		SER/SSER Impact : No
Figure 4.2-1	3	See Sheet No(s) :F4.2-1 thru F4.2-3
		Combines the "A" "B" figures into one figure and retitles it as "typical".
		Clarification :
		The "typical" figure was generalized so that it applies to different fuel types. Specific information is located in material referenced in this section or in Appendices 4A and 4B for Unit 1 and Unit 2 respectively.
		Change Request Number : SA-93-96.25
		Commitment Register Number :
		Related SER : 4 SSER :
		SER/SSER Impact : No
Figure 4.2-4A	4	See Sheet No(s) :F4.2-4B thru F4.2-7B
		Deletes Figures 4.2-4A thru 4.2-7B.
		Editorial :
		These figures describe vendor supplied subcomponents of fuel assemblies which may undergo periodic updates and improvements. Since the figures represent excessive detail they are not required to be included in the FSAR. Current fuel subcomponent drawings are maintained by the fuel vendor.
		Change Request Number : SA-93-96.26
		Commitment Register Number :
		Related SER : 4 SSER :
		SER/SSER Impact : No
Figure 4.2-9	3	See Sheet No(s) :F4.2-12

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Combines the "A" "B" figures into one figure and retitles it as "typical".

Clarification :

The "typical" figure was generalized so that it applies to different fuel types. Specific information is located in material referenced in this section or in Appendices 4A and 4B for Unit 1 and Unit 2 respectively.

Change Request Number : SA-93-96.27

Commitment Register Number :

Related SER : 4 SSER :

SER/SSER Impact : No

Figure 4.2-13A

4

See Sheet No(s) : Figure 4.2-13B

Deletes Figures 4.2-13A and 4.2-13B.

Editorial :

These figures describe vendor supplied reactor core subcomponents which may undergo periodic updates and improvements. Since the figures represent excessive detail they do not need to be included in the FSAR. Current core subcomponent drawings are maintained by the fuel vendor.

Change Request Number : SA-93-96.

Commitment Register Number :

Related SER : 4 SSER :

SER/SSER Impact : No

Figure 4.2-14

4

Deletes Figure 4.2-14.

Editorial :

These figures describe vendor supplied reactor core subcomponents which may undergo periodic updates and improvements. Since the figures represent excessive detail they are not required to be included in the FSAR. Current core subcomponent drawings are maintained by the fuel vendor.

Change Request Number : SA-93-96.28

Commitment Register Number :

Related SER : 4 SSER :

SER/SSER Impact : No

Figure 4.2-15

3

See Sheet No(s) : F4.2-16

Combines the "A" "B" figures into one figure and retitles it as "typical".

Clarification :

These figures describe vendor supplied reactor core subcomponents which may undergo periodic updates and improvements. Since the figures represent excessive detail they are not required to be included in the FSAR. Current core subcomponent drawings are maintained by the fuel vendor.

Change Request Number : SA-93-96.29

Commitment Register Number :

Related SER : 4 SSER :

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(as amended)

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SER/SSER Impact : No

- 4.3-2 4 Deletes reference to specific numerical fuel burnup and replaced it with a general description.
Editorial :
The burnup specified is outdated and applied only to the initial core design. Relevant unit/cycle specific information, including analysis methodologies, and methodology dependent results and assumptions are contained in Appendices 4A and 4B for Unit 1 and unit 2 respectively.
Change Request Number : SA-93-96.30
Commitment Register Number :
Related SER : 4 SSER :
SER/SSER Impact : No
- 4.3-3 4 Deletes discussion of chemical shim boron concentration.
Editorial :
This description is considered to be excessively detailed and dependent on the analytical methodology used to design the core. Relevant unit/cycle specific information, including analysis methodologies, and methodology dependent results and assumptions are contained in Appendices 4A and 4B for Unit 1 and unit 2 respectively.
Change Request Number : SA-93-96.31
Commitment Register Number :
Related SER : 4 SSER :
SER/SSER Impact : No
- 4.3-4 4 See Sheet No(s) :5
Inserts the 95% confidence statement into the specific criteria to which it applies instead of indicating that it applies to all the nuclear design basis criteria.
Clarification :
Editorial clarification.
Change Request Number : SA-93-96.32
Commitment Register Number :
Related SER : 4 SSER :
SER/SSER Impact : No
- 4.3-5 4 The specific kW/ft value is replaced by a general description of the parameter with a reference to Appendices 4A and 4B for specific limits.
Editorial :
Relevant unit/cycle specific information, including analysis methodologies, and methodology dependent results and assumptions are contained in Appendices 4A and 4B for Unit 1 and unit 2 respectively.
Change Request Number : SA-93-96.33
Commitment Register Number :

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(as amended)

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Related SER : 4 SSER :
SER/SSER Impact : No

- 4.3-5 4 Removes the statement concerning verification of extreme power shapes by frequent measurements from operating reactors.
Editorial :
 The power shapes used in the analysis of the fuel design are methodology dependent. Relevant unit/cycle specific information, including analysis methodologies, and methodology dependent results and assumptions are contained in (or references in) Appendices 4A and 4B for Unit 1 and unit 2 respectively.
Change Request Number : SA-93-96.34
Commitment Register Number :
Related SER : 4 SSER :
SER/SSER Impact : No
- 4.3-7 4 See Sheet No(s) :12
Adds the word "approximately" to the peak xenon burnout rate value.
Clarification :
 Editorial clarification.
Change Request Number : SA-93-96.35
Commitment Register Number :
Related SER : 4 SSER :
SER/SSER Impact : No
- 4.3-8 4 Replaces the words "standard Westinghouse" with "nuclear." Deletes the specific computer codes used to verify shutdown criteria.
Editorial :
 CPSES uses Westinghouse and in-house methodologies. Wording is generalized to include any approved methodology. Also, to minimize duplication, descriptions of computer codes used in specific analyses are relocated to the appropriate sections in Chapter 15 or Appendices 4A and 4B for Unit 1 and Unit 2 respectively.
Change Request Number : SA-93-96.36
Commitment Register Number :
Related SER : 4 SSER :
SER/SSER Impact : No
- 4.3-11 4 Replaces the description of the core loading patterns with a reference to Appendices 4A and 4B.
Editorial :
 Core loading patterns are cycle specific. Relevant unit/cycle specific information, including analysis methodologies, and methodology dependent results and assumptions are contained in Appendices 4A and 4B for Unit 1 and unit 2 respectively.

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(as amended)

Group Description

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| | | Change Request Number : SA-93-96.37 |
| | | Commitment Register Number : |
| | | Related SER : 4 SSER : |
| | | SER/SSER Impact : No |
| 4.3-11 | 3 | Updates text to reflect extended fuel cycle and deletes reference to specific fuel burnup. |
| | | Update : |
| | | CPSES is no longer on annual fuel cycles. Fuel burnup is cycle specific. Cycle specific information and analysis methodologies are contained in Appendices 4A and 4B for Unit 1 and unit 2 respectively. |
| | | Change Request Number : SA-93-96.38 |
| | | Commitment Register Number : |
| | | Related SER : 4 SSER : |
| | | SER/SSER Impact : No |
| 4.3-11 | 3 | Replaces cycle specific calculational results with a typical curve of plutonium buildup. |
| | | Update : |
| | | "Typical" figures are generalized so that they apply to different fuel types. Specific information is located in material referenced in this section or in Appendices 4A and 4B for Unit 1 and Unit 2 respectively. |
| | | Change Request Number : SA-93-96.39 |
| | | Commitment Register Number : |
| | | Related SER : 4 SSER : |
| | | SER/SSER Impact : No |
| 4.3-12 | 4 | Deletes reference to "first cycle" and "first core". |
| | | Clarification : |
| | | Generalizes section to make it applicable to all cycles. |
| | | Change Request Number : SA-93-96.40 |
| | | Commitment Register Number : |
| | | Related SER : 4 SSER : |
| | | SER/SSER Impact : No |
| 4.3-13 | 4 | Generalizes discussion of burnable absorber distributions by referencing "typical" information. |
| | | Clarification : |
| | | Relevant unit/cycle specific information, including analysis methodologies, and methodology dependent results and assumptions are contained in Appendices 4A and 4B for Unit 1 and unit 2 respectively. |
| | | Change Request Number : SA-93-96.41 |
| | | Commitment Register Number : |
| | | Related SER : 4 SSER : |
| | | SER/SSER Impact : No |
| 4.3-13 | 4 | Deletes discussion of specific core design parameter |

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(as amended)

Group Description

values.

Editorial :

Relevant unit/cycle specific information, including analysis methodologies, and methodology dependent results and assumptions are contained in Appendices 4A and 4B for Unit 1 and unit 2 respectively.

Change Request Number : SA-93-96.42

Commitment Register Number :

Related SER : 4 SSER :

SER/SSER Impact : No

4.3-17

4

See Sheet No(s) :18

Generalizes discussion of power distribution by referencing "typical" information and deletes cycle specific information.

Editorial :

Cycle specific information and analysis methodologies are contained in Appendices 4A and 4B for Unit 1 and unit 2 respectively.

Change Request Number : SA-93-96.43

Commitment Register Number :

Related SER : 4 SSER :

SER/SSER Impact : No

4.3-19

4

Deletes the discussion of power spike factor.

Editorial :

The deleted information is provided in references in Section 4.3 or in Appendices 4A and 4B.

Change Request Number : SA-93-96.44

Commitment Register Number :

Related SER : 4 SSER :

SER/SSER Impact : No

4.3-20

3

Deletes statement regarding one reactor coolant loop out of service.

Update :

Operation with one loop out of service is not applicable to CPSES.

Change Request Number : SA-93-96.45

Commitment Register Number :

Related SER : 4 SSER :

SER/SSER Impact : No

4.3-21

3

Deletes reference to Westinghouse topical report and adds a reference to Appendices 4A and 4B.

Update :

Relevant unit/cycle specific information, including analysis methodologies, and methodology dependent results and assumptions are contained in Appendices 4A and 4B for Unit 1 and unit 2 respectively.

Change Request Number : SA-93-96.46

Commitment Register Number :

Related SER : 4 SSER :

FSAR Page
 (as amended)

Group Description

SER/SSER Impact : No

- | | | |
|--------|---|---|
| 4.3-21 | 4 | Deletes detailed discussion of radial and axial power distribution.
Editorial :
These descriptions are considered to be excessively detailed and are already contained in documents referenced in Appendices 4A and 4B for Unit 1 and Unit 2 respectively.
Change Request Number : SA-93-96.47
Commitment Register Number :
Related SER : 4 SSER :
SER/SSER Impact : No |
| 4.3-22 | 4 | Deletes information concerning the first cycle and load follow transients.
Editorial :
The deleted information is historic and no longer relevant.
Change Request Number : SA-93-96.48
Commitment Register Number :
Related SER : 4 SSER :
SER/SSER Impact : No |
| 4.3-22 | 4 | Replaces the specific timing of calculations performed during normal operation of reactor to be "at various points in the operating cycle".
Clarification :
Editorial clarification.
Change Request Number : SA-93-96.49
Commitment Register Number :
Related SER : 4 SSER :
SER/SSER Impact : No |
| 4.3-22 | 4 | Replaces a detailed discussion of cases studied to determine the general behavior of local power densification, with a listing of references containing that information.
Editorial :
This description is considered to be excessively detailed for the FSAR and is already contained in referenced documents.
Change Request Number : SA-93-96.50
Commitment Register Number :
Related SER : 4 SSER :
SER/SSER Impact : No |
| 4.3-23 | 4 | See Sheet No(s) :25
Replaces the detailed discussion of reactor protection system setpoints with a general discussion and references to where the detailed discussion is already contained.
Editorial : |

FSAR Page
 (as amended)

Group Description

This description is considered to be excessively detailed for the FSAR and is already contained in referenced documents.

Change Request Number : SA-93-96.51
 Commitment Register Number :
 Related SER : 4 SSER :
 SER/SSER Impact : No

4.3-28 4 Deletes specific details concerning reactivity coefficients.
 Editorial :
 Relevant unit/cycle specific information and methodology dependent results and assumptions are contained in Appendices 4A and 4B for Unit 1 and unit 2 respectively. Analytical models are described in FSAR section 4.3.3.
 Change Request Number : SA-93-96.52
 Commitment Register Number :
 Related SER : 4 SSER :
 SER/SSER Impact : No

4.3-29 4 Replaces discussion of computer codes and specific details concerning the fuel temperature coefficient with a generalized description of design methods and a reference to Appendices 4A and 4B.
 Editorial :
 Relevant unit/cycle specific information, including analysis methodologies, and methodology dependent results and assumptions are contained in Appendices 4A and 4B for Unit 1 and unit 2 respectively.
 Change Request Number : SA-93-96.53
 Commitment Register Number :
 Related SER : 4 SSER :
 SER/SSER Impact : No

4.3-30 4 See Sheet No(s) : 31
 Replaces detailed specific information concerning moderator temperature coefficient with a reference to Appendices 4A and 4B.
 Editorial :
 Relevant unit/cycle specific information, including analysis methodologies, and methodology dependent results and assumptions are contained in Appendices 4A and 4B for Unit 1 and unit 2 respectively.
 Change Request Number : SA-93-96.54
 Commitment Register Number :
 Related SER : 4 SSER :
 SER/SSER Impact : No

4.3-30 4 See Sheet No(s) : 31 & 32
 Unit specific "A" "B" figures have been generalized and combined into one figure, retitled "typical".
 Text and references to those figures is updated to

FSAR Page
(as amended)

Group Description

be consistent with the above.

Clarification :

Editorial clarification.

Change Request Number : SA-93-96.55

Commitment Register Number :

Related SER : 4 SSER :

SER/SSER Impact : No

4.3-32

4

Deletes the discussion of accuracy of analytical models for calculation of reactivity coefficients.

Editorial :

The accuracy of analytic models is discussed in referenced material (References 7 and 38 in Section 4.3).

Change Request Number : SA-93-96.56

Commitment Register Number :

Related SER : 4 SSER :

SER/SSER Impact : No

4.3-32

4

See Sheet No(s) :33

Deletes the reference to Table 4.3-2 concerning limiting values for reactivity coefficients.

Editorial :

Information contained in Tables 4.3-2A and 4.3-2B is cycle specific. Relevant unit/cycle specific information, including analysis methodologies, and methodology dependent results and assumptions are summarized in Appendices 4A and 4B for Unit 1 and unit 2 respectively.

Change Request Number : SA-93-96.57

Commitment Register Number :

Related SER : 4 SSER :

SER/SSER Impact : No

4.3-33

4

See Sheet No(s) :34

Unit specific "A" "B" figures and/or tables have been generalized and combined into one figure/table, retitled "typical". Text and references to those figures and/or tables have been updated to be consistent with the above.

Editorial :

Editorial clarification.

Change Request Number : SA-93-96.58

Commitment Register Number :

Related SER : 4 SSER :

SER/SSER Impact : No

4.3-35

4

Deletes specific information concerning control dead band and measurement errors for average moderator temperature.

Editorial :

Relevant unit/cycle specific information, including analysis methodologies, and methodology dependent

FSAR Page
(as amended)

Group Description

results and assumptions are contained in Appendices 4A and 4B for Unit 1 and unit 2 respectively.

Change Request Number : SA-93-96.59

Commitment Register Number :

Related SER : 4 SSER :

SER/SSER Impact : No

4.3-36

4

See Sheet No(s) :38 & 42

Deletes specific details concerning boron concentrations.

Editorial :

Relevant unit/cycle specific information, including analysis methodologies, and methodology dependent results and assumptions are contained in Appendices 4A and 4B for Unit 1 and unit 2 respectively.

Change Request Number : SA-93-96.60

Commitment Register Number :

Related SER : 4 SSER :

SER/SSER Impact : No

4.3-41

4

Unit specific "A" "B" figures and/or tables have been generalized and combined into one figure/table, retitled "typical". Text and references to those figures and/or tables have been updated to be consistent with the above. Also deletes reference to Table 4.3-1.

Clarification :

Information presented in Table 4.3-1 is cycle specific. Relevant unit/cycle specific information, including analysis methodologies, and methodology dependent results and assumptions are contained in Appendices 4A and 4B for Unit 1 and unit 2 respectively.

Change Request Number : SA-93-96.61

Commitment Register Number :

Related SER : 4 SSER :

SER/SSER Impact : No

4.3-43

4

See Sheet No(s) :44 & 45

Unit specific "A" "B" figures and/or tables have been generalized and combined into one figure/table, retitled "typical". Text and references to those figures and/or tables have been updated to be consistent with the above.

Clarification :

Editorial clarification.

Change Request Number : SA-93-96.62

Commitment Register Number :

Related SER : 4 SSER :

SER/SSER Impact : No

4.3-45

3

Deletes the reference to 3.5 w/o U-235.
Update :

FSAR Page
(as amended)

Group Description

Higher enrichments have been approved for CPSES. Enrichment is cycle specific. Relevant unit/cycle specific information, including analysis methodologies, and methodology dependent results and assumptions are contained in Appendices 4A and 4B for Unit 1 and unit 2 respectively.

Change Request Number : SA-93-96.63
Commitment Register Number :
Related SER : 4 SSER :
SER/SSER Impact : No

4.3-46

3

Deletes detailed discussion of criticality analyses for spent fuel storage and replaces description of analytical methodology used.

Update :

These changes are consistent with revisions to the CPSES technical specifications approved in Amendment 17 (Unit 1) and 3 (Unit 2).

Change Request Number : SA-93-96.64
Commitment Register Number :
Related SER : 4 SSER :
SER/SSER Impact : No

4.3-54

3

See Sheet No(s) :55 & 56

Replaces existing Section 4.3.3 discussion of analytical methods to incorporate NRC approved TU Electric methodologies.

Update :

Revised description is consistent with current methodology. Information deleted represents historical information, excessive detail or methodology dependent detail. Relevant unit/cycle specific information, including analysis methodologies, and methodology dependent results and assumptions are contained in Appendices 4A and 4B for Unit 1 and unit 2 respectively.

Change Request Number : SA-93-96.65
Commitment Register Number :
Related SER : 4 SSER :
SER/SSER Impact : No

4.3-58

4

See Sheet No(s) :59 & 60

Deletes unit and cycle specific references.

Editorial :

Relevant unit/cycle specific information, including analysis methodologies, are contained in Appendices 4A and 4B for Unit 1 and unit 2 respectively.

Change Request Number : SA-93-96.66
Commitment Register Number :
Related SER : 4 SSER :
SER/SSER Impact : No

4.3-74

3

Adds References 38, 39 and 40.

FSAR Page
 (as amended)

Group Description

		Update :	Incorporates NRC approved TU Electric analytical methodologies.
		Change Request Number :	SA-93-96.67
		Commitment Register Number :	
		Related SER : 4 SSER :	
		SER/SSER Impact :	No
Table 4.3-1	4	Deletes Table 4.3-1.	
		Editorial :	
			This table is deleted because the information represents historical data and excessive detail which is no longer relevant. Relevant information is relocated to Appendices 4A and 4B for Unit 1 and 2 respectively.
		Change Request Number :	SA-93-96.68
		Commitment Register Number :	
		Related SER : 4 SSER :	
		SER/SSER Impact :	No
Table 4.3-2A	4	See Sheet No(s) :T4.3-2B	
		Deletes Tables 4.3-2A and 4.3-2B.	
		Editorial :	
			These tables are deleted because the information represents historical data and excessive detail which is no longer relevant. Relevant information is relocated to Appendices 4A and 4B for Unit 1 and 2 respectively.
		Change Request Number :	SA-93-96.69
		Commitment Register Number :	
		Related SER : 4 SSER :	
		SER/SSER Impact :	No
Table 4.3-3	4	Combines the "A" "B" Tables into one Table by deleting the unit designators.	
		Editorial :	
			The combined table provides "typical" information which is applicable to both units. The minimum shutdown margin requirement is provided in Appendices 4A and 4B.
		Change Request Number :	SA-93-96.70
		Commitment Register Number :	
		Related SER : 4 SSER :	
		SER/SSER Impact :	No
Table 4.3-4	4	Deletes Table 4.3-4.	
		Editorial :	
			Deleted information is historical and is relevant only to Westinghouse methodologies; relevant information is incorporated in material referenced in Section 4.3.3 and Appendices 4A and 4B.
		Change Request Number :	SA-93-96.71
		Commitment Register Number :	

FSAR Page (as amended)	Group Description	
	Related SER : 4	SSER : SER/SSER Impact : No
Table 4.3-7	4	<p>Deletes Table 4.3-7. Editorial : Deleted information is historical and is relevant only to Westinghouse methodologies; relevant information is incorporated in material referenced in Section 4.3.3 and Appendices 4A and 4B. Change Request Number : SA-93-96.72 Commitment Register Number : Related SER : 4 SSER : SER/SSER Impact : No</p>
Table 4.3-8	4	<p>Deletes Table 4.3-8. Editorial : Deleted information is historical and is relevant only to Westinghouse methodologies; relevant information is incorporated in material referenced in Section 4.3.3 and Appendices 4A and 4B. Change Request Number : SA-93-96.73 Commitment Register Number : Related SER : 4 SSER : SER/SSER Impact : No</p>
Table 4.3-9	4	<p>Deletes Table 4.3-9. Editorial : Deleted information is historical and is relevant only to Westinghouse methodologies; relevant information is incorporated in material referenced in Section 4.3.3 and Appendices 4A and 4B. Change Request Number : SA-93-96.74 Commitment Register Number : Related SER : 4 SSER : SER/SSER Impact : No</p>
Table 4.3-10	4	<p>Deletes Table 4.3-10. Editorial : Deleted information is historical and is relevant only to Westinghouse methodologies; relevant information is incorporated in material referenced in Section 4.3.3 and Appendices 4A and 4B. Change Request Number : SA-93-96.75 Commitment Register Number : Related SER : 4 SSER : SER/SSER Impact : No</p>
Table 4.3-11	4	<p>Deletes Table 4.3-11. Editorial : Deleted information is historical and is relevant only to Westinghouse methodologies; relevant information is incorporated in material referenced in Section 4.3.3 and Appendices 4A and 4B.</p>

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 (as amended)

Group Description

Change Request Number : SA-93-96.76
 Commitment Register Number :
 Related SER : 4 SSER :
 SER/SSER Impact : No

Figure 4.3-1 4 Deletes Figure 4.3-1.
 Editorial :
 This figure contains cycle specific information.
 Cycle specific information and analysis
 methodologies are contained in Appendices 4A and 4B
 for Unit 1 and unit 2 respectively.
 Change Request Number : SA-93-96.77
 Commitment Register Number :
 Related SER : 4 SSER :
 SER/SSER Impact : No

Figure 4.3-2 4 See Sheet No(s) : F4.3-3 thru F4.3-17
 Combines the "A" "B" figures into one figure and
 retitles it as "typical".
 Editorial :
 Theses "typical" figures were generalized so that
 they apply to different fuel types. Relevant cycle
 specific information is located in material
 referenced in this section or in Appendices 4A and
 4B for Unit 1 and Unit 2 respectively.
 Change Request Number : SA-93-96.78
 Commitment Register Number :
 Related SER : 4 SSER :
 SER/SSER Impact : No

Figure 4.3-18 4 Deletes Figure 4.3-18.
 Editorial :
 The information presented in this figure is
 historical detail which is no longer relevant to the
 current analyses.
 Change Request Number : SA-93-96.79
 Commitment Register Number :
 Related SER : 4 SSER :
 SER/SSER Impact : No

Figure 4.3-19 4 Deletes Figure 4.3-19.
 Editorial :
 The information presented in this figure is
 historical detail which is no longer relevant to the
 current analyses.
 Change Request Number : SA-93-96.80
 Commitment Register Number :
 Related SER : 4 SSER :
 SER/SSER Impact : No

Figure 4.3-20 4 Deletes Figure 4.3-20.
 Editorial :
 The information presented in this figure is

FSAR Page
 (as amended)

Group Description

historical detail which is no longer relevant to the current analyses.

Change Request Number : SA-93-96.81
 Commitment Register Number :
 Related SER : 4 SSER :
 SER/SSER Impact : No

Figure 4.3-21 4 Deletes Figure 4.3-21.
 Editorial :
 The information in this figure is cycle specific. Cycle specific information are contained in Appendices 4A and 4B for Unit 1 and unit 2 respectively.
 Change Request Number : SA-93-96.82
 Commitment Register Number :
 Related SER : 4 SSER :
 SER/SSER Impact : No

Figure 4.3-22A 4 See Sheet No(s) : F4.3-22B & F4.3-23A,B
 Deletes Figures 4.3-22A,B and 4.3-23A,B.
 Editorial :
 These figures are deleted because the information represents historical detail which is no longer relevant. Relevant information is contained in material referenced in Section 4.3.
 Change Request Number : SA-93-96.83
 Commitment Register Number :
 Related SER : 4 SSER :
 SER/SSER Impact : No

Figure 4.3-24 4 See Sheet No(s) : F4.3-27 thru F4.3-35
 Combines the "A" "B" figures into one figure and retitles it as "typical".
 Editorial :
 Theses "typical" figures were generalized so that they apply to both units. Relevant cycle specific information is located in material referenced in this section or in Appendices 4A and 4B for Unit 1 and Unit 2 respectively.
 Change Request Number : SA-93-96.84
 Commitment Register Number :
 Related SER : 4 SSER :
 SER/SSER Impact : No

Figure 4.3-37 4 See Sheet No(s) : F4.3-38 & F4.3-39
 Combines the "A" "B" figures into one figure and retitles it as "typical".
 Editorial :
 Theses "typical" figures were generalized so that they apply to both units. Relevant cycle specific information is located in material referenced in this section or in Appendices 4A and 4B for Unit 1 and Unit 2 respectively.

FSAR Page
(as amended)

Group Description

Change Request Number : SA-93-96.85
Commitment Register Number :
Related SER : 4 SSER :
SER/SSER Impact : No

Figure 4.3-40

- 4 See Sheet No(s) : F4.3-41 thru F4.3-45
Deletes Figures 4.3-40 thru 4.3-45.

Editorial :

The information presented in these figures is historical detail which is no longer relevant or is excessive or methodology dependent detail. Relevant information is contained in material referenced in section 4.3.3.

Change Request Number : SA-93-96.86
Commitment Register Number :
Related SER : 4 SSER :
SER/SSER Impact : No

4.4-2

- 3 See Sheet No(s) : 3 & 4
Replaces discussions of the Unit 1 and 2 DNB design basis, Westinghouse DNBR limit and the WRB-1 correlation with a discussion of the current DNB analysis methods.

Update :

Information deleted is historical detail which is no longer relevant to the current core configurations and analytical methods used. New wording is added to reflect current analysis methodology. Also, information specific to Westinghouse analysis for Unit 2, which is still valid, is relocated to Appendix 4B and its references. In addition, the section is reworded to be more generally applicable to future core configurations for both units.

Change Request Number : SA-93-96.87
Commitment Register Number :
Related SER : 4 SSER :
SER/SSER Impact : No

4.4-5

- 3 Deletes the detailed discussion of DNB analysis methodology and replaces it with a general description with references to other other material for detailed descriptions.

Update :

The information specific to Unit 1 is deleted because it is historical and no longer valid; current information is contained in Appendix 4A and its references. Information specific to Unit 2 is relocated to Appendix 4B and its references.

Change Request Number : SA-93-96.88
Commitment Register Number :
Related SER : 4 SSER :
SER/SSER Impact : No

FSAR Page (as amended)		Group Description
4.4-5	3	<p>See Sheet No(s) :6, 7 & 8</p> <p>Generalizes references to the THINC code and deletes references to various FSAR sections whose contents have been deleted or have been relocated to Appendices 4A and 4B.</p> <p>Update :</p> <p>Text is generalized to be applicable regardless of which analysis methodology is used.</p> <p>Change Request Number : SA-93-96.90</p> <p>Commitment Register Number :</p> <p>Related SER : 4 SSER :</p> <p>SER/SSER Impact : No</p>
4.4-6	3	<p>Deletes specific details concerning the heat flux engineering hot channel factor and replaces with a general statement about use of approved methodology and an additional reference.</p> <p>Update :</p> <p>The details of the heat flux engineering hot channel factor are contained in referenced material. The additional reference material includes TU Electric methodologies incorporated into the Tech Spec 6.9.1.6b via Amendment 21/7 for Unit 1 and Unit 2, respectively.</p> <p>Change Request Number : SA-93-96.89</p> <p>Commitment Register Number :</p> <p>Related SER : 4 SSER :</p> <p>SER/SSER Impact : No</p>
4.4-8	3	<p>Deletes discussion of cycle specific DNBR margins and penalties.</p> <p>Update :</p> <p>Relevant unit/cycle specific information, including analysis methodologies, and methodology dependent results and assumptions are contained in Appendices 4A and 4B for Unit 1 and unit 2 respectively.</p> <p>Change Request Number : SA-93-96.91</p> <p>Commitment Register Number :</p> <p>Related SER : 4 SSER :</p> <p>SER/SSER Impact : No</p>
4.4-8	3	<p>See Sheet No(s) :9</p> <p>Deletes details (specific values and analysis methodology) of linear heat generation rate, void fraction distribution and core coolant flow distribution. Also deletes detailed discussion of physical data and correlations.</p> <p>Update :</p> <p>The information deleted is excessively detailed, historical, or not applicable to current core configurations or analytical methods. Relevant unit/cycle specific information, including analysis methodologies, and methodology dependent results and</p>

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(as amended)

Group Description

- assumptions are contained in Appendices 4A and 4B for Unit 1 and unit 2 respectively.
Change Request Number : SA-93-96.92
Commitment Register Number :
Related SER : 4 SSER :
SER/SSER Impact : No
- 4.4-9 3 See Sheet No(s) :10
Generalizes the discussion of the thermal effects of operation transients to make it applicable regardless of specific cycle design and analytical methodologies used.
Update :
Relevant unit/cycle specific information, including analysis methodologies, and methodology dependent results and assumptions are contained in Appendices 4A and 4B for Unit 1 and unit 2 respectively.
Change Request Number : SA-93-96.93
Commitment Register Number :
Related SER : 4 SSER :
SER/SSER Impact : No
- 4.4-10 4 See Sheet No(s) :11 & 12
Revises section numbers and removes deleted tables and references.
Editorial :
Makes section description consistent with changes made to remove excess detail, redundant information, and information relocated to Appendices 4A and 4B.
Change Request Number : SA-93-96.95
Commitment Register Number :
Related SER : 4 SSER :
SER/SSER Impact : No
- 4.4-11 3 Deletes paragraph concerning reactor trip setpoints.
Update :
Deleted paragraph is a duplication of information found in FSAR Section 15.0.
Change Request Number : SA-93-96.94
Commitment Register Number :
Related SER : 4 SSER :
SER/SSER Impact : No
- 4.4-12 4 Deletes discussion of flow prediction using the THINC-IV computer code.
Clarification :
Relevant unit/cycle specific information, including analysis methodologies, and methodology dependent results and assumptions are contained in Appendices 4A and 4B for Unit 1 and unit 2 respectively.
Change Request Number : SA-93-96.96
Commitment Register Number :
Related SER : 4 SSER :

FSAR Page
 (as amended)

Group Description

SER/SSER Impact : No

4.4-12 4 Generalizes discussion of loop flow uncertainty.
 Clarification :
 Text is generalized to be applicable regardless of
 specific cycle design or analytical methodologies
 used.
 Change Request Number : SA-93-96.97
 Commitment Register Number :
 Related SER : 4 SSER :
 SER/SSER Impact : No

4.4-13 3 Deletes section concerning uncertainty in mixing
 coefficient.
 Update :
 Section is deleted because it represents excessive
 or historical detail. A more generic description is
 provided in Section 4.4.2.4.5.
 Change Request Number : SA-93-96.98
 Commitment Register Number :
 Related SER : 4 SSER :
 SER/SSER Impact : No

4.4-13 4 See Sheet No(s) :14
 Deletes excessive detail concerning uncertainties in
 the hot channel factor.
 Editorial :
 Sufficient information is already contained in the
 analytical methodologies referenced in Section 4.3
 and/or Appendices 4A and 4B.
 Change Request Number : SA-93-96.99
 Commitment Register Number :
 Related SER : 4 SSER :
 SER/SSER Impact : No

4.4-14 4 See Sheet No(s) :15
 Deletes referenced FSAR sections which no longer
 contain the information indicated, renumbers
 sections and adds a new reference relating to fuel
 and cladding temperature.
 Editorial :
 Editorial changes to make section consistent with
 relocation of information to Appendices 4A and 4B
 and/or deletion of historical or excessively
 detailed information.
 Change Request Number : SA-93-96.1
 Commitment Register Number :
 Related SER : 4 SSER :
 SER/SSER Impact : No

4.4-15 3 Deletes section concerning uranium oxide thermal
 conductivity.
 Clarification :

FSAR Page
(as amended)

Group Description

These descriptions are considered to be excessively detailed and below the level required to be in the FSAR. They are deleted to improve readability of the affected FSAR sections.

Change Request Number : SA-93-96.2
Commitment Register Number :
Related SER : 4 SSER :
SER/SSER Impact : No

4.4-15 3 Generalizes text and deletes cycle specific information related to peaking factors.
Clarification :
Relevant unit/cycle specific information, including analysis methodologies, and methodology dependent results and assumptions are contained in Appendices 4A and 4B for Unit 1 and unit 2 respectively.
Change Request Number : SA-93-96.3
Commitment Register Number :
Related SER : 4 SSER :
SER/SSER Impact : No

4.4-16 3 Deletes specific plant configuration information.
Clarification :
The information deleted is already contained in the FSAR Chapters referenced in the opening paragraph.
Change Request Number : SA-93-96.4
Commitment Register Number :
Related SER : 4 SSER :
SER/SSER Impact : No

4.4-17 3 Deletes the reference to Tables 4.1-1A,B and 4.4-1A,B for thermal hydraulic characteristics and replaces FSAR section reference with reference to Appendices 4A and 4B for critical heat flux correlations.
Clarification :
The deleted tables contained only historical information. Relevant unit/cycle specific information, including analysis methodologies, and methodology dependent results and assumptions are contained in Appendices 4A and 4B for Unit 1 and unit 2 respectively.
Change Request Number : SA-93-96.5
Commitment Register Number :
Related SER : 4 SSER :
SER/SSER Impact : No

4.4-18 3 See Sheet No(s) :20
Deletes plant/cycle specific information and generalizes text to be applicable regardless of cycle or analytical methodology used.
Clarification :
Relevant unit/cycle specific information, including

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(as amended)

Group Description

- analysis methodologies, and methodology dependent results and assumptions are contained in Appendices 4A and 4B for Unit 1 and unit 2 respectively.
Change Request Number : SA-93-96.6
Commitment Register Number :
Related SER : 4 SSER :
SER/SSER Impact : No
- 4.4-20 3 Deletes discussion of the reference DNB design axial power shape.
Clarification :
The reference axial power shape is cycle and methodology dependent. Relevant unit/cycle specific information, including analysis methodologies, and methodology dependent results and assumptions are contained in Appendices 4A and 4B for Unit 1 and unit 2 respectively.
Change Request Number : SA-93-96.7
Commitment Register Number :
Related SER : 4 SSER :
SER/SSER Impact : No
- 4.4-21 3 Replaces the discussion of analytical techniques with a reference to Appendices 4A and 4B.
Clarification :
Relevant unit/cycle specific information, including analysis methodologies, and methodology dependent results and assumptions are incorporated or referenced in Appendices 4A and 4B for Unit 1 and unit 2 respectively.
Change Request Number : SA-93-96.8
Commitment Register Number :
Related SER : 4 SSER :
SER/SSER Impact : No
- 4.4-24 3 See Sheet No(s) :25
Deletes information related to the THINC-IV computer code which is methodology specific or is historic in nature.
Clarification :
Relevant unit/cycle specific information, including analysis methodologies, and methodology dependent results and assumptions are contained in Appendices 4A and 4B for Unit 1 and unit 2 respectively.
Change Request Number : SA-93-96.9
Commitment Register Number :
Related SER : 4 SSER :
SER/SSER Impact : No
- 4.4-31 3 See Sheet No(s) :33, 34, 35, 37 & 38
Deletes references no longer used and adds new references.
Update :

FSAR Page
 (as amended)

Group Description

Updates reference section to remove historical references no longer applicable and adds new references describing NRC approved TU Electric methodologies.

Change Request Number : SA-93-96.10
 Commitment Register Number :
 Related SER : 4 SSER :
 SER/SSER Impact : No

Table 4.4-1A

3

Deletes Table 4.4-1A.

Update :

Comparisons of CPSES units to other nuclear plants represent historical information and is excessive detail beyond the level necessary for the FSAR.

Change Request Number : SA-93-96.11
 Commitment Register Number :
 Related SER : 4 SSER :
 SER/SSER Impact : No

Table 4.4-1B

3

Deletes Table 4.4-1B.

Update :

Comparisons of CPSES units to other nuclear plants represent historical information and is excessive detail beyond the level necessary for the FSAR.

Change Request Number : SA-93-96.12
 Commitment Register Number :
 Related SER : 4 SSER :
 SER/SSER Impact : No

Table 4.4-3

3

Deletes Table 4.4-3.

Clarification :

Information contained in these tables represent historical information and is excessive detail beyond the level necessary for the FSAR.

Change Request Number : SA-93-96.13
 Commitment Register Number :
 Related SER : 4 SSER :
 SER/SSER Impact : No

Table 4.4-4

3

Deletes Table 4.4-4.

Clarification :

Information contained in this table represents historical information and is excessive detail beyond the level necessary for the FSAR.

Change Request Number : SA-93-96.14
 Commitment Register Number :
 Related SER : 4 SSER :
 SER/SSER Impact : No

Figure 4.4-1

3

See Sheet No(s) : F4.4-2 thru F4.4-16

Deletes Figures 4.4-1 thru 4.4-16.

Clarification :

The information provided in these figures is

FSAR Page
(as amended)

Group Description

historical and excessively detailed and is below the level of detail required to be in the FSAR.

Change Request Number : SA-93-96.15
Commitment Register Number :
Related SER : 4 SSER :
SER/SSER Impact : No

4A-1

- 3 See Sheet No(s) :4A-2 thru 4A-25 & tables & figures
Replaces existing Appendix 4A to refelect new format
and Unit 1, Cycle 4 information.

Update :
Appendices 4A and 4B were created to consolidate cycle specific information, which previously existed throughout chapters 4, 6 and 15, into one section for each unit, thus simplifying the FSAR update process. Appendix 4A contains the equivalent of the Reload Safety Evaluation Report for Unit 1, Cycle 4 and is updated each cycle. Also see the discussion provided for page 4.1-1.

Change Request Number : SA-93-96.16
Commitment Register Number :
Related SER : 4 SSER :
SER/SSER Impact : No

4B-1

- 3 See Sheet No(s) :4B-2 thru 4B-24 & tables & figures
Creates new appendix 4B.

Update :
Appendices 4A and 4B were created to consolidate cycle specific information, which previously existed throughout FSAR chapters 4, 6 and 15, into one section for each unit, thus simplifying the FSAR update process. Appendix 4B contains the equivalent of the Reload Safety Evaluation Report for Unit 2, Cycle 1 and is updated each cycle. Because Cycle 1 is the initial core, there is no true "Reload Safety Evaluation;" however, an equivalent was created to facilitate future FSAR changes. Also see the discussion provided for page 4.1-1.

Change Request Number : SA-93-96.17
Commitment Register Number :
Related SER : 4 SSER :
SER/SSER Impact : No

Figure 5.1-1

- 3 See Sheet No(s) :02
Revises figure to provide appropriate cap symbols for test connections, vent and drain valves (TVDs) to identify which caps are credited to satisfy the requirements of Note 8 to Table 6.2.4-2 concerning containment isolation TVDs.

Revision :
See justification provided for Figure 3.2-1.
Change Request Number : SA-93-138.2
Commitment Register Number :

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 (as amended)

Group Description

		Related SER : 6.2 SSER :22 6.2.3 SER/SSER Impact : No
5.4-89	4	Clarifies information on the design of hydraulic snubbers used in RCS component supports on the steam generator upper lateral support. Clarification : The snubbers are built to the intent of the ASME Code but not stamped. Change Request Number : SA-94-40.1 Commitment Register Number : Related SER : 3.9.3 SSER :23 3.9.3 SER/SSER Impact : No
5.4-91	4	Clarifies information on the testing of hydraulic snubbers. Clarification : Clarifies text by stating that snubbers are tested in accordance with the Technical Specifications and the Inservice Inspection Program Plan. Change Request Number : SA-94-40.2 Commitment Register Number : Related SER : 3.9.3 SSER :23 3.9.3 SER/SSER Impact : No
Figure 6.2.2-1	3	See Sheet No(s) :01 Revises figure to provide appropriate cap symbols for test connections, vent and drain valves (TVDs) to identify which caps are credited to satisfy the requirements of Note 8 to Table 6.2.4-2 concerning containment isolation TVDs. Revision : See justification provided for Figure 3.2-1. Change Request Number : SA-93-138.3 Commitment Register Number : Related SER : 6.2 SSER :22 6.2.3 SER/SSER Impact : No
Figure 6.2.2-1	2	See Sheet No(s) :01 & 02 Deletes various vent and drain valves, instrument root valves, and pump suction relief valves from the Containment Spray system for Unit 2. Revision : High vibration in the Unit 2 Containment Spray System (CSS) piping in the vicinity of the pumps has resulted in some fatigue cracks at connections of small bore piping to headers. This condition was reported to the NRC via LER 2-94-005 transmitted by TXX-94166, dated 6/22/94. A number of approaches were employed as corrective actions, including reinforcement of the connecting piping and the deletion of certain piping connections (i.e., vent and drain valves, instrument root valves, and pump

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(as amended)

Group Description

suction relief valves. The criterion applied to determine which pipe connections could be deleted was that the deleted connection would not impact system function, operability, maintenance or testing in such a way as to: adversely impact the CSS in performing its design function; jeopardize the safe operation of the unit; or significantly impact ALARA.

Two of the drain valves deleted based on the above criterion are containment isolation valves which are not required for normal system operation, but are used during leakrate testing of the valves associated containment penetrations 2-MIII-014 and 2-MIII-015 (See FSAR Table 6.2.2-1). The valves may be deleted without affecting containment integrity, however, the function must be restored prior to the next scheduled containment penetration leakrate test. The remaining drain valves deleted were determined not to significantly affect system operation.

The vent valves deleted were piping high point vents and pump suction casing vents. The high point vents deleted were installed during the unit startup to facilitate system hydro-testing and are no longer required. The CSS pump casing vents that were deleted were reviewed for the potential impact on pump performance due to potential air entrapment. Based on a review of the containment spray actuation time calculations and the MSLB and LOCA analysis calculations, it was concluded that the small quantity of air that may be trapped in the CSS would not significantly impact the system operation.

Further, based on a review of the pump manufacturer's operation manual, venting of the pump casing is performed via the casing high point vent, which is not being deleted.

The root valve connections for two local pressure indicators were deleted by tying into the tube runs for the adjacent transmitters. Four other pressure indicators associated with the eductors from the chemical additive tank were deleted since they are not required for normal system operation. However, since these instruments function to provide local indication during the five year interval surveillance testing, the function must be restored prior to the next scheduled surveillance test.

The CSS pump suction relief valves were also deleted. While it is common to protect the pump suction lines of high differential pressure pumps from an inadvertent over pressurization during testing or upset condition, it is not specifically required by the ASME Code if it can be shown that the over pressurization condition could only occur

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 (as amended)

Group Description

during non-design basis operating conditions. The pump suction piping is designed for pressures significantly higher than the maximum pressure resulting from the specified upset condition. Thus, the relief valves are no longer required.

Change Request Number : SA-94-74.
 Commitment Register Number :
 Related SER : 6.2 SSER :
 SER/SSER Impact : No

6.3-24

- 2 Revises discussion of the sequencer to include a one second delay upon receipt of an "S" signal when there is no loss of offsite power. Also clarifies discussion of the sequencing of pumps and valves.
 Revision :

See discussion provided for page 8.3-14.
 Change Request Number : SA-93-25.
 Commitment Register Number :
 Related SER : 8.3 SSER :
 SER/SSER Impact : No

Table 6.3-7

- 4 See Sheet No(s) : 4
 Replaces cycle specific hot leg recirculation initiation time with a reference to see Appendices 4A and 4B.
 Editorial :
 Relevant unit/cycle specific information, including analysis methodologies, and methodology dependent results and assumptions are contained in Appendices 4A and 4B for Unit 1 and unit 2 respectively.

Change Request Number : SA-93-96.18
 Commitment Register Number :
 Related SER : 4 SSER :
 SER/SSER Impact : No

Figure 6.3-1

- 3 See Sheet No(s) : 01, 03, 05 & 06
 Revises figure to provide appropriate cap symbols for test connections, vent and drain valves (TVDs) to identify which caps are credited to satisfy the requirements of Note 8 to Table 6.2.4-2 concerning containment isolation TVDs.

Revision :
 See justification provided for Figure 3.2-1.
 Change Request Number : SA-93-138.4
 Commitment Register Number :
 Related SER : 6.2 SSER : 22 6.2.3
 SER/SSER Impact : No

7.1-50

- 4 Add paragraph that describes testing of underfrequency relays
 Addition :
 Addition explains the testing of the reactor coolant pump underfrequency relays and how the

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(as amended)

Group Description

testing conforms to the listed IEEE standards.
Change Request Number : SA-94-59.1
Commitment Register Number :
Related SER : SSER :
SER/SSER Impact : No

Figure 7.1-3

- 4 See Sheet No(s) :05,05A
locate the following instruments on drawing;
1-TE-410B, 1-TE-411B,1-TE-420B, 1-TE-421B,
1-TE-430B, 1-TE-431B,1-TE-440B, and 1-TE-441B.
Correction :
This change provides a reference to location of
installed spares in Unit 1 primary
Change Request Number : SA-94-34.1
Commitment Register Number :
Related SER : SSER :
SER/SSER Impact : No

Figure 7.1-3

- 4 See Sheet No(s) :26
correct this Unit 2 drawing by showing the Unit 2
instead of the Unit 1 instrumentation
Correction :
Figure is a Unit 2 drawing, yet the drawing shows
locations of Unit 1 instruments. The drawing is
in error.
Change Request Number : SA-94-34.2
Commitment Register Number :
Related SER : SSER :
SER/SSER Impact : No

7.2-41

- 4 Add section heading
Addition :
Adds section heading to delineate the start of
section which describes UF UV testing
Change Request Number : SA-94-59.2
Commitment Register Number :
Related SER : SSER :
SER/SSER Impact : No

7.2-48

- 3 insert exception for RCP UF relays from the
statement that there are no bypass channels
associated with 2 out of 4 logic system testing.
Addition :
The test circuitry for the RCP UF relay does not cause a par
trip, or provide for annunciation in the control room as a
result of interrupting the signal form the channel under tes
The Underfrequency (UF) relay test circuitry substitutes a
frequency test signal for the sensor signal during testing.
the test signal is varied the UF relay and associated time d
relay will set or reset as a function of the test frequency.
the relay sets or resets the partial trip and the accompanyi
annunciation will be actuated or cleared in the control room
The current design and testing methodology were evaluated in

FSAR Page
(as amended)

Group Description

safety evaluation 94-030 and found to not be an unreviewed safety question.

Change Request Number : SA-94-59.3
Commitment Register Number :
Related SER : SSER :
SER/SSER Impact : No

7.2-48

- 4 Describes controls placed on testing of UF relays
Addition :

As the RCP UF relays do not insert a trip to alert the control room operators that the channel is in test. The partial trip comes in when the frequency of the test signal is below the setpoint and clears when the test frequency is above the setpoint. Testing isolates the channel from the monitored parameter. As the channel does not annunciate in the control room the testing has been placed under administrative control to ensure that the channel is not inadvertently left in test.

Change Request Number : SA-94-59.4
Commitment Register Number :
Related SER : SSER :
SER/SSER Impact : No

7.3-12

- 4 See Sheet No(s) :24, 30, 34, 39, 51, 55 & 61
Deletes the reference to Table 8.3-1B in the discussion of sequencing of equipment on loss of offsite power concurrent with a LOCA.
Editorial :

Table 8.3-1A lists equipment required for the injection phase of the LOCA while Table 8.3-1B lists equipment required for the recirculation phase. Since the sequencing only applies to the injection phase, reference to Table 8.3-1B is inappropriate and is deleted.

Change Request Number : SA-93-25.
Commitment Register Number :
Related SER : 8.3 SSER :
SER/SSER Impact : No

7.3-58

- 4 Adds a reference to Table 8.3-1A for the sequencing requirements of the Service Water Intake Structure ventilation.
Editorial :

The reference to Table 8.3-1A was previously inadvertantly omitted.

Change Request Number : SA-93-25.
Commitment Register Number :
Related SER : 8.3 SSER :
SER/SSER Impact : No

Table 7.3-4

- 3 See Sheet No(s) :13
Adds the Primary Plant Vent ESF Exhaust Fan to the

FSAR Page
 (as amended)

Group Description

list of safety injection actuated equipment.
 Addition :

The Primary Plant Vent ESF Exhaust Fan was previously inadvertently omitted from this table.
 Change Request Number : SA-93-25.
 Commitment Register Number :
 Related SER : 7.3 SSER :
 SER/SSER Impact : No

8.3-4

4

See Sheet No(s) :5
 Relocates the response for NRC question 040.92 to the FSAR text section pertaining to diesel generator automatic starting.
 Editorial :
 The response is revised to refer to the FSAR text Section in preparation for deletion of the Q&R section when the Updated Safety Analysis is issued.
 Change Request Number : SA-92-162.2
 Commitment Register Number :
 Related SER : 8.3.1 SSER :22 8.3.1
 SER/SSER Impact : No

8.3-14

2

Corrects the description of the sequencer control logic to include a maximum one second delay that is part of the self test circuit.
 Revision :
 During ESFAS and sequencer response time testing of the containment spray pumps, it was discovered that the continuous self test circuit contained a preset one second time delay which effects the performance of sequenced equipment for cases where offsite power is available. As a result, the ESF systems (e.g., ECCS, Containment Spray, Auxiliary Feedwater) and ESF support systems (e.g., CCW, SSW) response in the event of a safety injection without loss of offsite power could be delayed by one second more than the original design requirements as list in the FSAR. A safety evaluation was performed to assess the potential impact of the one second delay on the response time assumed in accident analyses. The conclusion of the evaluation was that the sequencer delay does not affect the capability of required equipment to satisfy accident analyses response times.
 Change Request Number : SA-93-25.
 Commitment Register Number :
 Related SER : 8.3 SSER :
 SER/SSER Impact : No

8.3-82

2

See Sheet No(s) :83
 Adds to FSAR section 8.3.1.4 item 5 an analysis to establish that minimum physical separation between class 1E cables and non class 1E differential

FSAR Page
 (as amended)

Group Description

protection cables are not required inside the 6.9kv class 1E switchgear.

Addition :

This provides the basic analysis for the separation criteria between these non 1E cables inside 6.9kv class 1E switchgear which is being added under the discussion of section 1A(B) for Regulatory Guide 1.75.

Change Request Number : SA-93-82.2

Commitment Register Number :

Related SER : 8.4.4 SSER :22 8.4.4

SER/SSER Impact : No

8.3-84

2 See Sheet No(s) :85

Deletes from FSAR section 8.3.1.4 item 5, the statement that "Thermo-Lag is considered equivalent to conduit with respect to protection from electrical failures". Also adds to this section analysis for establishing that separation requirement is not applicable between the Thermo-Lag protected cable, conduit or tray and the redundant cable, conduit or tray outside the Thermo-Lag enclosure.

Addition :

This justification is based on Thermo-Lag installation test results.

Change Request Number : SA-94-3.2

Commitment Register Number :

Related SER : 8.4.4 SSER :22 8.4.4

SER/SSER Impact : No

Table 8.3-1A

3 See Sheet No(s) :01 thru 06

Corrects the "Auto Sequencer Start" designation of various injection phase equipment to be consistent with the accompanying note 14.

Correction :

The subject equipment was previously indicated to be on the sequencer. However this is inconsistent with the accompanying Note 14 which states that the equipment is automatically energized when voltage is restored to the ESF busses (i.e., the equipment is not shed from the bus). Therefore the load is not considered to be a sequenced load.

Change Request Number : SA-93-25.

Commitment Register Number :

Related SER : 8.3 SSER :

SER/SSER Impact : No

Table 8.3-1A

3 See Sheet No(s) :03

Adds the Boric Acid Transfer Pump to Table 8.3-1A.

Correction :

The Boric Acid Transfer Pump is an injection phase required equipment. It was previously located in

FSAR Page
(as amended)

Group Description

Table 8.3-1B which lists "recirculation phase" equipment.

Change Request Number : SA-93-25.
Commitment Register Number :
Related SER : 8.3 SSER :
SER/SSER Impact : No

Table 8.3-1A 3 See Sheet No(s) :07
Corrects the 10 second load demand for LOCA with loss of offsite power from 1055.3 KW to 1061.1 KW.
Correction :
Addition error.
Change Request Number : SA-93-25.
Commitment Register Number :
Related SER : 8.3 SSER :
SER/SSER Impact : No

Table 8.3-1A 4 See Sheet No(s) :08
Adds General Note (4).
Clarification :
Note provides explanation of component prefix "CPX" used for components shared between units.
Change Request Number : SA-93-25.
Commitment Register Number :
Related SER : 8.3 SSER :
SER/SSER Impact : No

Table 8.3-1A 2 See Sheet No(s) :08
Revises Specific Note 1 to include explanation of one second sequencer delay for loads that are energized from an offsite power source.
Correction :
See discussion provided for page 8.3-14.
Change Request Number : SA-93-25.
Commitment Register Number :
Related SER : 8.3 SSER :
SER/SSER Impact : No

Table 8.3-1A 4 See Sheet No(s) :09
Note 14 is revised to clarify that loads automatically re-energized when the ESF bus voltage is restored are not considered to be sequenced loads.
Clarification :
See discussion provided for Table 8.3-1A Sheets 1 thru 6.
Change Request Number : SA-93-25.
Commitment Register Number :
Related SER : 8.3 SSER :
SER/SSER Impact : No

Table 8.3-1A 4 See Sheet No(s) :09
Deletes note 15.

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(as amended)

Group Description

Editorial :

Note 15 references a specific CPSES calculation.

This is considered to be excessive detail which is below the level necessary for inclusion in the FSAR.

Change Request Number : SA-93-25.

Commitment Register Number :

Related SER : 8.3 SSER :

SER/SSER Impact : No

Table 8.3-1B

4

See Sheet No(s) :01

Replaces individually listed equipment started during injection phase, with a collective item (i.e., EQUIPMENT STARTED DURING INJECTION PHASE).

Editorial :

Equipment operating during the Recirculation Phase includes all equipment started during the Injection Phase plus additional equipment started during the the Recirculation Phase. Individual listing of equipment and the load requirements for the Injection Phase is provided in Table 8.3-1A. It is not necessary to duplicate the information in Table 8.3-1B. Rather a single Injection Phase item replaces the individual equipment and load listings. A reference to see Table 8.3-1A is provided.

Change Request Number : SA-93-25.

Commitment Register Number :

Related SER : 8.3 SSER :

SER/SSER Impact : No

Table 8.3-1B

4

See Sheet No(s) :01

Replaces the "10 seconds" through "120 seconds" load demands, the "as required" load demand, and the cable and transformer losses, with a collective item "Injection Phase" load demand.

Editorial :

Equipment operating during the Recirculation Phase includes all equipment started during the Injection Phase plus additional equipment started during the the Recirculation Phase. Individual listing of equipment and the load requirements for the Injection Phase is provided in Table 8.3-1A. It is not necessary to duplicate the information in Table 8.3-1B. Rather a single Injection Phase item replaces the individual equipment and load listings.

Change Request Number : SA-93-25.

Commitment Register Number :

Related SER : 8.3 SSER :

SER/SSER Impact : No

Table 8.3-1B

3

See Sheet No(s) :01

Revises recombiner start time from 12 hours to 24 hours. Also revises "12 hour load demand" to be "24 hour load demand".

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(as amended)

Group Description

Correction :

The hydrogen recombiner start time is corrected to be consistent with FSAR Section 6.2.5A and Table II.B.2-4, item 15.

Change Request Number : SA-93-25.

Commitment Register Number :

Related SER : 8.3 SSER :

SER/SSER Impact : No

Table 8.3-1B

4

See Sheet No(s) :02

Deletes all notes applicable to the injection phase equipment. Retains and renumbers those notes applicable to recirculation phase.

Editorial :

Deleted notes were unnecessary duplications of notes contained in Table 8.3-1A.

Change Request Number : SA-93-25.

Commitment Register Number :

Related SER : 8.3 SSER :

SER/SSER Impact : No

Table 8.3-2

3

See Sheet No(s) :01 thru 06, 08 & 09

Corrects the "Auto Sequencer Start" designation of various equipment to be consistent with the accompanying note 14.

Correction :

The subject equipment was previously indicated to be on the sequencer. However this is inconsistent with the accompanying Note 14 which states that the equipment is automatically energized when voltage is restored to the ESF busses (i.e., the equipment is not shed from the bus). Therefore the load is not considered to be a sequenced load.

Change Request Number : SA-93-25.

Commitment Register Number :

Related SER : 8.3 SSER :

SER/SSER Impact : No

Table 8.3-2

4

See Sheet No(s) :10

Adds new general note (4).

Clarification :

Note provides explanation of component prefix "CPX" used for components shared between units.

Change Request Number : SA-93-25.

Commitment Register Number :

Related SER : 8.3 SSER :

SER/SSER Impact : No

Table 8.3-2

2

See Sheet No(s) :10

Revises Specific Note 1 to include a one second sequencer delay for loads that are energized from an offsite power source. Also adds a clarification related to Note 14.

FSAR Page (as amended)		Group Description
		Revision : See discussion provided for page 8.3-14. Change Request Number : SA-93-25. Commitment Register Number : Related SER : 8.3 SSER : SER/SSER Impact : No
Table 8.3-2	4	See Sheet No(s) :10 Clarifies Specific Note 14. Clarification : See discussion provided for Table 8.3-2, Sheets 1 thru 6. Change Request Number : SA-93-25. Commitment Register Number : Related SER : 8.3 SSER : SER/SSER Impact : No
Table 8.3-2	4	See Sheet No(s) :11 Deletes Specific Note 24 and the portion of Note 25 listing a specific CPSES calculation number. Editorial : The deleted information listed specific CPSES calculation numbers. This level of detail is considered to be excessive and below the level necessary for inclusion in the FSAR. Change Request Number : SA-93-25. Commitment Register Number : Related SER : 8.3 SSER : SER/SSER Impact : No
Table 8.3-10	2	See Sheet No(s) :6 and 7 Adds to the table for Electrical Equipment Not Requiring Internal Cable Separation "6.9kv switchgears CP1-EPSWEA-01,-02; CP2-EPSWEA-01,-02". Adds also a note that the equipment supplied by ITE has been analyzed and is exempt from internal separation requirements. Addition : The differential protection relay cables from 6.9kv class 1E preferred/alternate source breaker CTs are designed such that they will function adequately and will not fail due to circuit voltage and current conditions to which these might be exposed due to open and short circuit conditions. Change Request Number : SA-93-82.3 Commitment Register Number : Related SER : 8.4.4 SSER :22 8.4.4 SER/SSER Impact : No
Figure 8.3-14	2	See Sheet No(s) :1 Relocates 20amp circuit breaker from distribution panel 1ED1-1 spare circuit 12 to circuit 14 and the 15amp circuit breaker from circuit 14 to the spare

FSAR Page
 (as amended)

Group Description

circuit.

Correction :

The increase in circuit breaker size allows the system to isolate high impedance faults by the individual fuses in the downstream rack instead of the panel circuit breaker. As a result the fault is isolated by removing the smallest portion of the distribution system while the circuit breaker still protects the feeder cable.

Change Request Number : SA-93-75.1

Commitment Register Number :

Related SER : 8.3 SSER :22 8.3

SER/SSER Impact : No

Figure 9.2-3

3 See Sheet No(s) :07

Revises figure to provide appropriate cap symbols for test connections, vent and drain valves (TVDs) to identify which caps are credited to satisfy the requirements of Note 8 to Table 6.2.4-2 concerning containment isolation TVDs.

Revision :

See justification provided for Figure 3.2-1.

Change Request Number : SA-93-138.5

Commitment Register Number :

Related SER : 6.2 SSER :22 6.2.3

SER/SSER Impact : No

Figure 9.2-4A

3 See Sheet No(s) :06

Add valve XWT-0405 to X-PI-6970B in the Surface Water Pre-Treatment System.

Correction :

Due to the drafting error, the valve XWT-0405 was inadvertently removed. Addition of the valve on the figure meets the as-built design.

Change Request Number : SA-93-127.

Commitment Register Number :

Related SER : 9.2 SSER :

SER/SSER Impact : No

Figure 9.2-5

3 See Sheet No(s) :05

Revises figure to provide appropriate cap symbols for test connections, vent and drain valves (TVDs) to identify which caps are credited to satisfy the requirements of Note 8 to Table 6.2.4-2 concerning containment isolation TVDs.

Revision :

See justification provided for Figure 3.2-1.

Change Request Number : SA-93-138.6

Commitment Register Number :

Related SER : 6.2 SSER :22 6.2.3

SER/SSER Impact : No

Figure 9.2-5

4 See Sheet No(s) :06

FSAR Page
(as amended)

Group Description

Revises Figure to indicate Demineralized Water supply to the new Secondary Sampling Ion Chromatograph.

Revision :

Revises Figure 9.2-5, Demineralized and Reactor Makeup Water, Sheet 6 to add Demin. Water supply to the new Secondary Sampling Ion Chromatograph installation in the Unit 1 Turbine Building. See Description for p. 10.4-134.

Change Request Number : SA-93-78.

Commitment Register Number :

Related SER : 10.4 SSER : 3

SER/SSER Impact : No

9.3-38a

3

Revises the Unit 2 description of the instrumentation associated with the Volume Control Tank (VCT) to reflect revised analyses performed in support of an inadvertent boron dilution event in Modes 3, 4 and 5. The revisions remove a difference between Unit 1 and Unit 2. The changes include the addition of an alarm to indicate when the three-way divert valve is not in the "VCT" position and an additional high level alarms for early warning of an increasing VCT water level prior to the automatic full divert to the Boron Recycle System.

Update :

The changes for Unit 2 are identical to the Unit 1 changes described in Amendment 91. The changes were previously described in TU Electric letter TXX-93098 dated April 30, 1993 requesting a Technical Specification change and subsequently approved by the NRC in License Amendment 20 (Unit 1) and Amendment 6 (Unit 2).

Change Request Number : SA-94-13.

Commitment Register Number :

Related SER : 9.3 SSER :

SER/SSER Impact : No

Table 9.3-5

3

See Sheet No(s) :01

Updates the table to remove the unit difference associated with the VCT level alarms.

Update :

See justification provided for page 9.3-38a.

Change Request Number : SA-94-13.

Commitment Register Number :

Related SER : 9.3 SSER :

SER/SSER Impact : No

Figure 9.3-1

3

See Sheet No(s) :03

Revises figure to provide appropriate cap symbols for test connections, vent and drain valves (TVDs) to identify which caps are credited to satisfy the requirements of Note 8 to Table 6.2.4-2 concerning

FSAR Page
 (as amended)

Group Description

containment isolation TVDs.

Revision :

See justification provided for Figure 3.2-1.

Change Request Number : SA-93-138.7

Commitment Register Number :

Related SER : 6.2 SSER :22 6.2.3

SER/SSER Impact : No

Figure 9.3-2

3

See Sheet No(s) :01

Revises figure to provide appropriate cap symbols for test connections, vent and drain valves (TVDs) to identify which caps are credited to satisfy the requirements of Note 8 to Table 6.2.4-2 concerning containment isolation TVDs.

Revision :

See justification provided for Figure 3.2-1.

Change Request Number : SA-93-138.8

Commitment Register Number :

Related SER : 6.2 SSER :22 6.2.3

SER/SSER Impact : No

Figure 9.3-4

3

See Sheet No(s) :01

Revises figure to provide appropriate cap symbols for test connections, vent and drain valves (TVDs) to identify which caps are credited to satisfy the requirements of Note 8 to Table 6.2.4-2 concerning containment isolation TVDs.

Revision :

See justification provided for Figure 3.2-1.

Change Request Number : SA-93-138.9

Commitment Register Number :

Related SER : 6.2 SSER :22 6.2.3

SER/SSER Impact : No

Figure 9.3-4

3

See Sheet No(s) :01

Revise the valve position from "Normally Open" to "Normally Closed" for 1/2 PS-0158, "Accumulator Liquid Sample Inlet Valve" in Process Sampling System.

Correction :

The revised valve position (Normally Closed) allows upstream isolation of the sample flow within the sample rooms and in close proximity to the pressure regulator and pressure/temperature indicators. It also helps to regulate sample parameters as per project chemistry department procedure.

Change Request Number : SA-94-28.

Commitment Register Number :

Related SER : 9.3.2 SSER :22 9.3.2

SER/SSER Impact : No

Figure 9.3-5

3

See Sheet No(s) :01

Revises figure to provide appropriate cap symbols

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(as amended)

Group Description

for test connections, vent and drain valves (TVDs) to identify which caps are credited to satisfy the requirements of Note 8 to Table 6.2.4-2 concerning containment isolation TVDs.

Revision :

See justification provided for Figure 3.2-1.

Change Request Number : SA-93-130.10

Commitment Register Number :

Related SER : 6.2 SSER :22 6.2.3

SER/SSER Impact : No

Figure 9.3-7

3

See Sheet No(s) :02

Revise Figure 9.3-7, Sheet 2 to reflect the rerouting of the condensate drain line from demister unit CPX-VAMEDM-03.

Correction :

Rerouting the demister drain line to a lower elevation in the Auxiliary Building will facilitate condensate drainage. The new drain point leads to the CCW Drain Tank, which is continuously monitored for radioactivity prior to discharge to the LVW pond. The existing drain point leads to the Liquid Radioactive Waste System. The demister condensate is not normally radioactive (only potentially radioactive in the event of a significant primary to secondary system leak).

Change Request Number : SA-93-121.

Commitment Register Number :

Related SER : 9.3.3 SSER :6 9.3.3

SER/SSER Impact : No

Figure 9.3-08

4

See Sheet No(s) :02

Revises Figure to add the Secondary Sampling System drain line from the new Ion Chromatograph.

Revision :

Revises Figure 9.3-8, Vents and Drains System Turbine Building, Sheet 2 to add the Secondary Sampling System drain line from the new Ion Chromatograph installation in the Unit 1 Turbine Building. See Description for p. 10.4-134.

Change Request Number : SA-93-78.

Commitment Register Number :

Related SER : 10.4 SSER :

SER/SSER Impact : No

Figure 9.3-10

3

See Sheet No(s) :01, 04 & 05

Revises figure to provide appropriate cap symbols for test connections, vent and drain valves (TVDs) to identify which caps are credited to satisfy the requirements of Note 8 to Table 6.2.4-2 concerning containment isolation TVDs.

Revision :

See justification provided for Figure 3.2-1.

FSAR Page
 (as amended)

Group Description

Change Request Number : SA-93-138.11
 Commitment Register Number :
 Related SER : 6.2 SSER :22 6.2.3
 SER/SSER Impact : No

Figure 9.4-6 3 See Sheet No(s) :01 & 02
 Revises figure to provide appropriate cap symbols for test connections, vent and drain valves (TVDs) to identify which caps are credited to satisfy the requirements of Note 8 to Table 6.2.4-2 concerning containment isolation TVDs.

Revision :
 See justification provided for Figure 3.2-1.
 Change Request Number : SA-93-138.12
 Commitment Register Number :
 Related SER : 6.2 SSER :22 6.2.3
 SER/SSER Impact : No

Figure 9.4-9 3 See Sheet No(s) :01,02
 Corrects the pressure indicators for the ESF Air Filter Units.
 Correction :
 This change corrects the depiction of the pressure instruments in the existing FSAR Figures 9.4-9, Sheets 1 and 2. This change reflects the as built installed configuration of the instrumentations on the ESF Air Filtering Units.

Change Request Number : SA-94-4.
 Commitment Register Number :
 Related SER : 9.4.3 SSER :25 9.4.3
 SER/SSER Impact : No

Figure 9.4-11 3 See Sheet No(s) :01 & 02
 Revises figure to provide appropriate cap symbols for test connections, vent and drain valves (TVDs) to identify which caps are credited to satisfy the requirements of Note 8 to Table 6.2.4-2 concerning containment isolation TVDs.

Revision :
 See justification provided for Figure 3.2-1.
 Change Request Number : SA-93-138.13
 Commitment Register Number :
 Related SER : 6.2 SSER :22 6.2.3
 SER/SSER Impact : No

Figure 9.4-15 3 Correct tag numbers for UPS CCW pressure control valves pressure regulators.
 Correction :
 The proposed change corrects the tag numbers for the UPS CCW pressure control valves pressure regulators as per project procedure.

Change Request Number : SA-93-161.
 Commitment Register Number :

FSAR Page
 (as amended)

Group Description

Related SER : 9.4 SSER :22 9.4
 SER/SSER Impact : No

Figure 9.5-48 3 Revises figure to provide appropriate cap symbols for test connections, vent and drain valves (TVDs) to identify which caps are credited to satisfy the requirements of Note 8 to Table 6.2.4-2 concerning containment isolation TVDs.

Revision :
 See justification provided for Figure 3.2-1.
 Change Request Number : SA-93-138.14
 Commitment Register Number :
 Related SER : 6.2 SSER :22 6.2.3
 SER/SSER Impact : No

Figure 9.5-48A 3 Revises figure to provide appropriate cap symbols for test connections, vent and drain valves (TVDs) to identify which caps are credited to satisfy the requirements of Note 8 to Table 6.2.4-2 concerning containment isolation TVDs.

Revision :
 See justification provided for Figure 3.2-1.
 Change Request Number : SA-93-138.15
 Commitment Register Number :
 Related SER : 6.2 SSER :22 6.2.3
 SER/SSER Impact : No

Figure 10.3-1 3 See Sheet No(s) :01 & 02
 Revises figure to provide appropriate cap symbols for test connections, vent and drain valves (TVDs) to identify which caps are credited to satisfy the requirements of Note 8 to Table 6.2.4-2 concerning containment isolation TVDs.

Revision :
 See justification provided for Figure 3.2-1.
 Change Request Number : SA-93-138.16
 Commitment Register Number :
 Related SER : 6.2 SSER :22 6.2.3
 SER/SSER Impact : No

10.4-96 4 See Sheet No(s) :100
 Clarifies text to indicate that only air-operated drip pot drain valves have control room indication.

Clarification :
 This change provides a clarification to the text portion of Section 10.4.10, Extraction Steam System, to indicate that only the air-operated drain pot drain valves have open-close indication lights on the control boards and alarm when opened. This clarification makes the text more accurately reflect Figure 10.4-13, Sheets 1 and 2.
 Change Request Number : SA-94-11.
 Commitment Register Number :

FSAR Page
(as amended)

Group Description

Related SER : 10.4 SSER :
SER/SSER Impact : No

- 10.4-124 4 Updates list of users of the Nitrogen Bottle Supply.
Clarification :
Clarifies Section 10.4.15.1.2 to list all users of
the Nitrogen Bottle Supply which were inadvertently
left off the user list. Previously only one user
was noted (Condensate Polisher Analyzers) which was
subsequently deleted as a user in FSAR Amendment 90.
The following information has been added to make
this section consistent within the FSAR text and
figures. The Containment Air and Reactor Coolant
PASS Remote Operating Modules are supplied with a
permanent source of nitrogen via gas cylinders to
allow for continuous operation of Post Accident
Sampling System when needed. Nitrogen bottles are
also available for supporting leak rate testing of
Electrical Penetrations on a intermittent basis. In
addition, the nitrogen bottle supply is provided as
a backup source to the Plant Gas Nitrogen System.
Change Request Number : SA-94-75.
Commitment Register Number :
Related SER : 10.4 SSER :
SER/SSER Impact : No
- 10.4-124 4 Updates list of users of the Nitrogen Bottle Supply
to include the new Secondary Sampling Ion
Chromatograph.
Revision :
The Secondary Sampling System has been upgraded to
add an on-line analyzer to provide reliable
monitoring and be available for chemistry trouble
shooting. Section 10.4.15.1.2 has been updated to
indicate that the new Ion Chromatograph is supplied
with a permanent source of nitrogen via the Nitrogen
Bottle System. See Description for p. 10.4-134.
Change Request Number : SA-93-78.
Commitment Register Number :
Related SER : 10.4 SSER :
SER/SSER Impact : No
- 10.4-134 3 See Sheet No(s) :135
Upgrades the Secondary Sampling System with the
addition of an on-line analyzer.
Revision :
An Ion Chromatograph has been added to the
Secondary Sampling System to allow reliable
monitoring and be available for chemistry trouble
shooting. The analyzer, common to both units, takes
samples of Unit 1 and 2 Hotwell A, Hotwell B,
Condensate Polisher Effluent, Heater Drain Pump
Discharge, Feedwater after H.P Heaters, Condensate

FSAR Page
(as amended)

Group Description

Pump Discharge and Main Steam after MSR from sample lines located at the Secondary Sampling Panels. The analyzer is computer controlled locally to sequentially select samples and store the data.

Change Request Number : SA-93-78.

Commitment Register Number :

Related SER : 10.4 SSER :

SER/SSER Impact : No

Table 10.4-16

3 See Sheet No(s) :02

Adds the new Secondary Sampling Ion Chromatograph as a component that receives nitrogen from the Nitrogen Supply System.

Revision :

Revises Table to reflect the update to Section 10.4.15.1, Nitrogen Supply System description to indicate that the Secondary System Ion Chromatograph is supplied with a permanent source of nitrogen.

See Description for pp. 10.4-124 and 10.4-134.

Change Request Number : SA-93-78.

Commitment Register Number :

Related SER : 10.4 SSER :

SER/SSER Impact : No

Table 10.4-19

3 See Sheet No(s) :01

Installed larger replacement impellers in the Hotwell Sample Pumps A and B.

Revision :

The Design TDH, psi for the Hot Well Sample Pumps has been changed from "25" to "32" to reflect the installation of larger replacement impellers. The samples' flow availabilities have been analyzed and found to have a negligible impact on transport time or Ion Chromatograph operation. See Description for p. 10.4-134.

Change Request Number : SA-93-78.

Commitment Register Number :

Related SER : 10.4 SSER :

SER/SSER Impact : No

Table 10.4-20

3 See Sheet No(s) :01 thru 03

Revises Secondary Plant Sampling System Measured Parameters to reflect the addition of the new Ion Chromatograph.

Revision :

The "Parameter Measured" and "Receiver and Function" fields for the Hot Wells, Condensate pump Discharge, Heater Drain pump discharge, Polisher outlet, Final feedwater and Main Steam after MSR have been updated to reflect the installation of the new Secondary Sampling System Ion Chromatograph. See Description for p. 10.4-134.

Change Request Number : SA-93-78.

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 (as amended)

Group Description

Commitment Register Number :
 Related SER : 10.4 SSER :
 SER/SSER Impact : No

Figure 10.4-5

4

See Sheet No(s) :01
 Simplifies Figure by removing details on vendor supplied and maintained components for the Anti-Scalant Injection equipment skid.
 Revision :
 The vendor supplied and maintained PVC components for the Anti-Scalant Injection equipment skid require change out to keep the system functional. Figure 10.4-5, Sheet 1, has been revised to indicate a simplified depiction of the Anti-Scalant Injection vendor supplied equipment. This simplification removes details from a non-safety and non-quality system which have been determined to be below the level of detail required by regulatory requirements or guidance (RG 1.70, Rev. 2 and SRP 10.4.5, Rev. 2); is not the basis for acceptance in any SER/SSER; and has no potential impact on safety.
 Change Request Number : SA-94-67.
 Commitment Register Number :
 Related SER : 10.4.5 SSER :
 SER/SSER Impact : No

Figure 10.4-7

4

See Sheet No(s) :03
 Removes "Unit 2 only" note from drawing.
 Revision :
 The Unit 1 Condensate Polishing Sample Sink which drained to Backwash Recovery Tank A has been changed to drain directly to the Turbine Building floor drains. The sample sink will now bypass the Backwash Recovery Tank A but will continue to drain to the same floor drain header. This will prevent the tank from filling with water from the sample sink.
 Change Request Number : SA-94-54.
 Commitment Register Number :
 Related SER : 10.4.5 SSER :
 SER/SSER Impact : No

Figure 10.4-8

3

See Sheet No(s) :04
 Revises Figure to delete feedwater pump suction strainers, differential pressure switches and the associated isolation valves on CPSES Unit 2.
 Revision :
 The feedwater pump suction strainers were installed to remove construction debris and it is common industry practice to remove the strainers when the system has been cleaned up. The removal of the pump suction strainers will not impact maintaining the secondary water chemistry because of the ultra-pure

FSAR Page
(as amended)

Group Description

water chemistry in PWR stations. This modification will not adversely impact the design basis of the feedwater or condensate systems.

Change Request Number : SA-94-7.
Commitment Register Number :
Related SER : 10.4 SSER :
SER/SSER Impact : No

Figure 10.4-9

3

See Sheet No(s) :02
Revises figure to provide appropriate cap symbols for test connections, vent and drain valves (TVDs) to identify which caps are credited to satisfy the requirements of Note 8 to Table 6.2.4-2 concerning containment isolation TVDs.

Revision :
See justification provided for Figure 3.2-1.
Change Request Number : SA-93-138.17
Commitment Register Number :
Related SER : 6.2 SSER :22 6.2.3
SER/SSER Impact : No

Figure 10.4-11

3

See Sheet No(s) :02
Revises figure to provide appropriate cap symbols for test connections, vent and drain valves (TVDs) to identify which caps are credited to satisfy the requirements of Note 8 to Table 6.2.4-2 concerning containment isolation TVDs.

Revision :
See justification provided for Figure 3.2-1.
Change Request Number : SA-93-138.18
Commitment Register Number :
Related SER : 6.2 SSER :22 6.2.3
SER/SSER Impact : No

Figure 10.4-15

4

See Sheet No(s) :02
Revises Figure to indicate as-built details to the TPCW piping around isophase forced cooling units.

Revision :
Figure 10.4-15, Sheet 2, Turbine Plant Cooling Water System, was revised to reflect actual installation details on as-built piping and tag numbers. These minor detail changes have no effect on system operation and will establish proper configuration.
Change Request Number : SA-93-146.
Commitment Register Number :
Related SER : 10.4 SSER :
SER/SSER Impact : No

Figure 10.4-15

4

See Sheet No(s) :03
Revise Figure to remove Unit 1 only note.

Addition :
Seven small thermal relief valves are added on the Main Turbine and Feedwater Pump Turbine lube oil

FSAR Page
(as amended)

Group Description

coolers for Unit 2. The ASME code requires that all heat exchangers have thermal overpressure protection measures. Installation of the relief valves on these heat exchangers will protect the vessels from possible damage if the TPCW system cooling water were isolated during operation. The addition of these valves do not impact the design basis or operation of the plant. Figure 10.4-15, Sheet 3, is being revised to remove the Unit 1 only note; the Unit 1 change was added previously to the FSAR Figure

Change Request Number : SA-94-22.
Commitment Register Number :
Related SER : 10.4.5 SSER :
SER/SSER Impact : No

Figure 10.4-18

See Sheet No(s) :01

Revises Figure to indicate the Nitrogen supply to the new Secondary Sampling Ion Chromatograph.

Revision :

Revises Figure 10.4-18, Sheet 1, to add the Nitrogen Supply line to the new Secondary Sampling Ion Chromatograph installation in the Unit 1 Turbine Building. See Description for p. 10.4-134.

Change Request Number : SA-93-78.
Commitment Register Number :
Related SER : 10.4 SSER :
SER/SSER Impact : No

Figure 10.4-20

4 See Sheet No(s) :01, 02 and 04

Revises Figures to add the Secondary Sampling System lines to the new Ion Chromatograph.

Revision :

Revises Figures 10.4-20, Secondary Sampling System, Sheets 1, 2 and 4 to add the Secondary Sampling System lines to the new Ion Chromatograph installation in the Unit 1 Turbine Building. See Description for 10.4-134.

Change Request Number : SA-93-78.
Commitment Register Number :
Related SER : 10.4 SSER :
SER/SSER Impact : No

Figure 11.2-4

4 See Sheet No(s) :3

Correct valve tag number from X-LCV-0328-2 to X-LCV-0326-2 on the subject FSAR figure.

Correction :

This change corrects a drafting discrepancy that was incorporated into the associated flow diagram when it was converted to a CAD document. The change is required to update the subject FSAR figure with the correct information.

Change Request Number : SA-94-23.1

FSAR Page (as amended)	Group Description	
	Commitment Register Number :	
	Related SER : SSER :	
	SER/SSER Impact : No	
11.5-38	3	<p>Revise description of radioactive effluent release report from "semiannual" to "annual".</p> <p>Revision :</p> <p>The change is made to be consistent with other licensing basis documents and revised federal regulations (10 CFR 50.36a (a) (2)) which specify annual reports in lieu of semiannual reports.</p> <p>Change Request Number : SA-93-143.1</p> <p>Commitment Register Number :</p> <p>Related SER : 11.4 SSER :</p> <p>SER/SSER Impact : No</p>
Table 12.4-3	4	<p>See Sheet No(s) : 01 & 02</p> <p>Add information on estimated dose rates and man-rem cumulative exposures for various work functions.</p> <p>Q&R Incorporation :</p> <p>Relocation of the response of Q331.6 to FSAR text in preparation for the USAR.</p> <p>Change Request Number : SA-94-51.1</p> <p>Commitment Register Number :</p> <p>Related SER : 12.4 SSER :</p> <p>SER/SSER Impact : No</p>
12.5-16	3	<p>Revise text description of Radiation Protection Program to eliminate requirement to perform annual whole body counts for Radiation Workers and restate when special monitoring and evaluation of known or suspected internal uptakes of radioactive materials is performed.</p> <p>Revision :</p> <p>Revised 10CFR20 , implemented at CPSES on 1/1/93, does not require monitoring of internal occupational intake of radioactive materials (by whole body count or any other means) of individuals unless they are likely to receive in one year an intake in excess of 10% of the applicable Annual Limit on Intake. Routine annual whole body counts have been performed on each CPSES Radiation Worker for the first three years of commercial plant operation yielding no positive whole body counts above action levels. Furthermore, results from an evaluation of the station personnel contamination monitors' (PCMs) capability for detecting internal contamination indicate the ability to detect 1% to 3% of the Annual Limit on Intake for the major radionuclides present in the plant environment. Based on the above, elimination of the annual and conditional whole body counts has been determined to be acceptable. Whole body counts performed on a case-</p>

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(as amended)

Group Description

by-case basis (i.e., as indicated by PCM) will serve to satisfy requirements of NRC Reg. Guide 8.9.
Change Request Number : SA-94-8.1
Commitment Register Number :
Related SER : 12.5 SSER :
SER/SSER Impact : No

13.1-13

3

Add a statement that the Shift Operations Manager meets the intent of ANSI N18.1-1971 section 4.2.2.
Update :

Through ongoing plant organizational evolutions, the CPSES position of Shift Operations Manager has evolved into the position most closely resembling the ANSI N18.1-1971 requirements of "Operations Manager". The Shift Operations Manager is responsible for the day-to-day operations of the plant, and for ensuring the actions taken by personnel are within licensing conditions and technical specifications limitations. For this reason, this is the position CPSES committed to meeting the requirements of ANSI N18.1-1971.

Change Request Number : SA-94-26.1
Commitment Register Number : 22630
Related SER : SSER :25 13.1
SER/SSER Impact : Yes

This change is consistent with commitments specified in SSER-22 section 13.1.

13.1-18

4

Elimination of statements redundant to table 13.1-2
Update :

Table 13.1-2 details the minimum shift crew composition and its related restrictions. The statements eliminated are redundant to those requirements listed in the table. The affected requirements remain intact and consistent with current regulation and docketed commitments.

Change Request Number : SA-94-69.1
Commitment Register Number :
Related SER : SSER :
SER/SSER Impact : No

Table 13.1-1

3

Change table 13.1-1 to eliminate the requirement of the Operations Manager to hold an active license and increase the experience requirements for the Shift Operations Manager position.
Update :

Through plant organizational evolution, the Shift Operations Manager performs the responsibilities that meet the intent of the ANSI N18.1-1971 standard for the "Operations Manager" position. The Operations Manager has become more administrative in nature and does not directly control day-to-day operational activities. By eliminating the active

FSAR Page
 (as amended)

Group Description

license requirement, the Operations Manager can focus more attention on maintaining administrative control of the plant. This change was implemented per a 50.59 safety evaluation on 4/6/94. This change more clearly delineates the actual responsibilities of the affected positions.

Change Request Number : SA-94-26.2
 Commitment Register Number : 22630
 Related SER : SSER :22 13.1
 SER/SSER Impact : Yes

These changes are consistent with the commitments as specified per SSER-25 section 13.1.

Figure 13.1-2

4

Update position title.

Update :

This change is a retitling of a position. The position's responsibilities remain intact and continues to be staffed by a qualified individual. This change has no impact on plant safety.

Change Request Number : SA-94-69.2
 Commitment Register Number :
 Related SER : SSER :
 SER/SSER Impact : No

Figure 13.1-3

4

Update position title

Update :

This change is a retitling of a position. The position's responsibilities remain intact and continues to be staffed by a qualified individual. This change has no impact on plant safety.

Change Request Number : SA-94-69.3
 Commitment Register Number :
 Related SER : SSER :
 SER/SSER Impact : No

13.1A-1

4

See Sheet No(s) :2,3,8,15

Update key position reassignments.

Update :

These changes are to reflect personnel reassignments into key positions which are discussed in SSER 27 and detailed in the FSAR. The positions responsibilities remain intact and continue to be staffed by fully qualified personnel consistent with the CPSES commitment to Regulatory Guide 1.8, rev. 2. This change has no impact on plant safety.

Change Request Number : SA-94-69.4
 Commitment Register Number :
 Related SER : SSER :27 13.1
 SER/SSER Impact : Yes

This change is consistent with SSERs 26/27 section 13.1.

13.2-3

4

This change relocates the response to Q040.117 into

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(as amended)

Group Description

the body of FSAR section 13.2

Q&R Incorporation :

This change relocates the response to Q040.117 into the text of FSAR section 13.2. This change is consistent with the current commitment and its intent. This relocation is editorial in nature.

Change Request Number : SA-94-48.1

Commitment Register Number : 01695

Related SER : SSER :

SER/SSER Impact : No

15.0-10

4

Replaces specific megawatt values used for transient analyses with generic description of the megawatt values (i.e., ESF design rating and guaranteed NSSS thermal power output).

Clarification :

The generic descriptions are more informative and the specific values are already contained in Table 15.0-1.

Change Request Number : SA-93-96.2

Commitment Register Number :

Related SER : 15 SSER :

SER/SSER Impact : No

15.0-10

4

Deletes the reference to WCAP 8567 with respect to allowances for DNBR limit.

Clarification :

DNB analysis may now also be performed using approved TU Electric methodology.

Change Request Number : SA-93-96.3

Commitment Register Number :

Related SER : 15 SSER :

SER/SSER Impact : No

15.0-11

3

Deletes the unit difference in pressurizer pressure uncertainty. Both units now use + 30 psi.

Revision :

The pressurizer pressure uncertainty unit difference was removed in the Technical Specifications by License Amendments 21 (Unit 1) and 7 (Unit 2). This change makes the FSAR consistent with the current licensing basis.

Change Request Number : SA-93-96.4

Commitment Register Number :

Related SER : 15 SSER :

SER/SSER Impact : No

15.0-11

4

Deletes the reference to Table 15.0-2.

Clarification :

The deletion avoids adding duplicate material to this table. The references to specific assumptions and analysis methodologies are described in the FSAR sections which contain each transient description.

FSAR Page (as amended)	Group Description	
		Change Request Number : SA-93-96.5 Commitment Register Number : Related SER : 15 SSER : SER/SSER Impact : No
15.0-12	4	Replaces reference to the THINC Code with the specific transient analysis performed. Clarification : Clarifies that, based on the approval of TU Electric methodologies, other methodologies besides the THINC code, may be used for DNB analyses. Change Request Number : SA-93-96.6 Commitment Register Number : Related SER : 15 SSER : SER/SSER Impact : No
15.0-13	3	Deletes extraneous information concerning fuel rod thermal time constant which was relevant to Westinghouse methodologies only. Update : Current methodologies perform explicit calculations of thermal conduction. Detailed discussions of the methodologies are contained in the associated NRC approved topical reports referenced in Table 1.6-1. Change Request Number : SA-93-96.7 Commitment Register Number : Related SER : 15 SSER : SER/SSER Impact : No
15.0-13	4	Deletes reference to Table 15.0-2 and Figures 15.0-2A and B related to doppler power coefficients. Clarification : The deleted information is contained in the FSAR sections which contain each transient description. Change Request Number : SA-93-96.8 Commitment Register Number : Related SER : 15 SSER : SER/SSER Impact : No
15.0-13	4	Deletes methodology specific information related to moderator temperature coefficient. Clarification : Detailed discussions of the methodologies are contained in the associated NRC approved topical reports referenced in Table 1.6-1. Change Request Number : SA-93-96.9 Commitment Register Number : Related SER : 15 SSER : SER/SSER Impact : No
15.0-14	4	Deletes information related to moderator density coefficient which was specific to Westinghouse

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(as amended)

Group Description

methodology.

Clarification :

Detailed discussions of the current methodologies are contained in the associated NRC approved topical reports referenced in Table 1.6-1.

Change Request Number : SA-93-96.10

Commitment Register Number :

Related SER : 15 SSER :

SER/SSER Impact : No

15.0-14

3

Deletes information related to rod control assembly insertion times.

Update :

Rod control cluster assembly insertion time assumptions for accident analyses must be greater than the value specified in the technical specifications. The values are removed from this introductory section because, depending on when the analysis is performed, different, but acceptable assumptions may be used.

Change Request Number : SA-93-96.11

Commitment Register Number :

Related SER : 15 SSER :

SER/SSER Impact : No

15.0-21

4

Replaces specific references, which are deleted, with statement indicating where additional details are located.

Editorial :

Editorial relocation of reference material.

Change Request Number : SA-93-96.12

Commitment Register Number :

Related SER : 15 SSER :

SER/SSER Impact : No

15.0-22

4

Replaces descriptions of computer codes used for transient analyses with a statement indicating that a discussion of computer codes used can be found in the methods of analysis section of the transient.

Editorial :

To minimize duplication, descriptions of computer codes used in specific analyses are relocated to the appropriate sections in Chapter 15 or Appendices 4A and 4B.

Change Request Number : SA-93-96.13

Commitment Register Number :

Related SER : 15 SSER :

SER/SSER Impact : No

15.0-23

4

Deletes references 6 through 16.

Editorial :

To minimize duplication, these references are relocated to the appropriate sections in Appendices

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 (as amended)

Group Description

		4A and 4B.
		Change Request Number : SA-93-96.14
		Commitment Register Number :
		Related SER : 15 SSER :
		SER/SSER Impact : No
Table 15.0-1	4	Revises "thermal power" to be "minimum assumed thermal power".
		Clarification :
		Clarification to make the table consistent with analyses presented in Section 15.2.8.
		Change Request Number : SA-93-96.15
		Commitment Register Number :
		Related SER : 15 SSER :
		SER/SSER Impact : No
Table 15.0-2	4	Deletes Table 15.0-2.
		Editorial :
		This table is deleted to minimize duplication.
		Relevant information is contained in the FSAR sections that contain each transient description.
		Change Request Number : SA-93-96.16
		Commitment Register Number :
		Related SER : 15 SSER :
		SER/SSER Impact : No
Table 15.0-3	4	Deletes Table 15.0-3.
		Editorial :
		This table is deleted to minimize duplication.
		Relevant information is contained in the FSAR sections that contain each transient description.
		Change Request Number : SA-93-96.17
		Commitment Register Number :
		Related SER : 15 SSER :
		SER/SSER Impact : No
Table 15.0-6	3	See Sheet No(s) :03
		Adds overpower N-16 as a reactor trip for the uncontrolled RCCA bank at power accident.
		Update :
		The change makes the table consistent with the Section 15.4.2 analysis of the accident.
		Change Request Number : SA-93-96.18
		Commitment Register Number :
		Related SER : 15 SSER :
		SER/SSER Impact : No
Table 15.0-6	3	See Sheet No(s) :04
		Adds the VCT high water level alarm and the CVCS/RMWS annunciators to the equipment available for transient and accident conditions.
		Addition :
		Additions made to reflect the revised analysis

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Group Description

methodology for the boron dilution event which allowed the removal of the Boron Dilution Mitigation System (BDMS) from the technical specifications, approved by License Amendment 20 for Unit 1 and 6 for Unit 2.

Change Request Number : SA-93-96.19
Commitment Register Number :
Related SER : 15 SSER :
SER/SSER Impact : No

Figure 15.0-2A

- 4 Deletes Figure 15.0-2A.
Editorial :
This Unit 1 cycle specific information is described as necessary in the FSAR sections that contain each transient description.

Change Request Number : SA-93-96.20
Commitment Register Number :
Related SER : 15 SSER :
SER/SSER Impact : No

Figure 15.0-2B

- 4 Deletes Figure 15.0-2B.
Editorial :
This Unit 2 cycle specific information is described as necessary in the FSAR sections which contain each transient description.

Change Request Number : SA-93-96.21
Commitment Register Number :
Related SER : 15 SSER :
SER/SSER Impact : No

Figure 15.0-20

- 3 Revises figure to reflect revised analysis methodology for the Inadvertant Boron Dilution Event in Modes 3, 4 and 5.
Revision :
The revised boron dilution event methodology was approved by the NRC in License Amendment 20 (Unit 1) and 6 (Unit 2).

Change Request Number : SA-93-96.22
Commitment Register Number :
Related SER : 15 SSER :
SER/SSER Impact : No

15.1-4

- 4 See Sheet No(s) : 5 & 7
Relocates paragraph describing the increased feedwater flow event (previously located on page 15.1-7).

Editorial :
Editorial relocation of information.
Change Request Number : SA-93-96.23
Commitment Register Number :
Related SER : 15 SSER :
SER/SSER Impact : No

FSAR Page (as amended)	Group Description
15.1-5	<p>4 Deletes information related to the LOFTRAN computer code.</p> <p>Editorial :</p> <p>To minimize duplication, descriptions of computer codes used in specific analyses are relocated to the appropriate sections in Chapter 15 or Appendices 4A and 4B for Unit 1 and Unit 2 respectively.</p> <p>Change Request Number : SA-93-96.24</p> <p>Commitment Register Number :</p> <p>Related SER : 15 SSER :</p> <p>SER/SSER Impact : No</p>
15.1-6	<p>4 See Sheet No(s) : 7 & 8</p> <p>Deletes Unit 2 specific information concerning analysis methodology.</p> <p>Editorial :</p> <p>To minimize duplication, descriptions of tools and methods used in specific analyses are relocated to the appropriate sections in Chapter 15 or Appendices 4A and 4B for Unit 1 and Unit 2 respectively.</p> <p>Change Request Number : SA-93-96.25</p> <p>Commitment Register Number :</p> <p>Related SER : 15 SSER :</p> <p>SER/SSER Impact : No</p>
15.1-8	<p>4 See Sheet No(s) : 10</p> <p>Relocates descriptive information concerning the excessive increase in secondary flow event (previously located on page 15.1-12).</p> <p>Editorial :</p> <p>Editorial relocation of information.</p> <p>Change Request Number : SA-93-96.26</p> <p>Commitment Register Number :</p> <p>Related SER : 15 SSER :</p> <p>SER/SSER Impact : No</p>
15.1-8	<p>4 See Sheet No(s) : 12</p> <p>Deletes information concerning the LOFTRAN computer code.</p> <p>Editorial :</p> <p>To minimize duplication, descriptions of computer codes used in specific analyses are relocated to the appropriate sections in Chapter 15 or Appendices 4A and 4B for Unit 1 and Unit 2 respectively.</p> <p>Change Request Number : SA-93-96.27</p> <p>Commitment Register Number :</p> <p>Related SER : 15 SSER :</p> <p>SER/SSER Impact : No</p>
15.1-10	<p>4 Deletes the "Results" section and revises "Conclusions" section of the Excessive Increase In Secondary Steam Flow" accident.</p> <p>Editorial :</p>

FSAR Page
(as amended)

Group Description

- The results and conclusions are summarized in new appendices 4A and 4B for Unit 1 and Unit 2 respectively.
- Change Request Number : SA-93-96.28
Commitment Register Number :
Related SER : 15 SSER :
SER/SSER Impact : No
- 15.1-10 4 See Sheet No(s) :11
Relocates a portion of the description of inadvertent opening of a steam generator relief or safety valve accident from page 15.1-17.
Editorial :
This relocation accomodates the establishment of FSAR appendices 4A and 4B which includes cycle specific parameters for Units 1 and 2 respectively.
Change Request Number : SA-93-96.29
Commitment Register Number :
Related SER : 15 SSER :
SER/SSER Impact : No
- 15.1-13 4 See Sheet No(s) :19 & 20
Deletes information concerning doppler only power defect and boron concentration.
Editorial :
This information is relocated to FSAR appendices 4A and 4B which includes cycle specific parameters for Units 1 and 2 respectively.
Change Request Number : SA-93-96.30
Commitment Register Number :
Related SER : 15 SSER :
SER/SSER Impact : No
- 15.1-14 4 Relocated discussion of stored energy on page 15.1-18 to be item 6 on page 15.1-17.
Editorial :
Assumptions related to stored energy are part of the secondary system steam release initial conditions and are now appropriately listed.
Change Request Number : SA-93-96.32
Commitment Register Number :
Related SER : 15 SSER :
SER/SSER Impact : No
- 15.1-14 4 The results section has been relocated to appendices 4A and 4B.
Editorial :
Cycle specific information is contained in Appendices 4A and 4B for Unit 1 and unit 2 respectively.
Change Request Number : SA-93-96.33
Commitment Register Number :
Related SER : 15 SSER :

FSAR Page
 (as amended)

Group Description

SER/SSER Impact : No

15.1-14	4	<p>Conclusions section is generalized and references to appendices 4A and 4B are included.</p> <p>Editorial : Cycle specific information is contained in Appendices 4A and 4B for Unit 1 and unit 2 respectively.</p> <p>Change Request Number : SA-93-96.34 Commitment Register Number : Related SER : 15 SSER : SER/SSER Impact : No</p>
15.1-14	4	<p>See Sheet No(s) :22 Deletes item 5 of the conditions assumed at the time of secondary system steam release.</p> <p>Editorial : Item 5 was not an initial condition but related to computational methodology. This information is now located in appendices 4A and 4B.</p> <p>Change Request Number : SA-93-96.31 Commitment Register Number : Related SER : 15 SSER : SER/SSER Impact : No</p>
15.1-17	4	<p>Deletes the specific example provided concerning the pressurizer pressure transmitter.</p> <p>Clarification : This example is redundant to the previous statement and is confusing as written.</p> <p>Change Request Number : SA-93-96.35 Commitment Register Number : Related SER : 15 SSER : SER/SSER Impact : No</p>
15.1-18	4	<p>Deletes references to the LOFTRAN and THINC computer codes and adds a reference to appendices 4A and 4B.</p> <p>Editorial : Cycle specific information and analysis methodologies are contained in Appendices 4A and 4B for Unit 1 and unit 2 respectively.</p> <p>Change Request Number : SA-93-96.36 Commitment Register Number : Related SER : 15 SSER : SER/SSER Impact : No</p>
15.1-18	4	<p>Deletes reference to doppler only power defect.</p> <p>Editorial : Cycle specific information and analysis methodologies are contained in Appendices 4A and 4B for Unit 1 and unit 2 respectively.</p> <p>Change Request Number : SA-93-96.37 Commitment Register Number :</p>

FSAR Page (as amended)	Group Description	
	Related SER : 15 SSER : SER/SSER Impact : No	
15.1-19	4 Relocates discussion of boric acid mixing to item 3 on page 15.1-23. Editorial : Editorial relocation for clarification. Change Request Number : SA-93-96.37 Commitment Register Number : Related SER : 15 SSER : SER/SSER Impact : No	
15.1-20	4 Deletes initial condition item 4 concerning steam generator heat transfer coefficient. Editorial : Cycle specific information and analysis methodologies are contained in Appendices 4A and 4B for Unit 1 and unit 2 respectively. Change Request Number : SA-93-96.38 Commitment Register Number : Related SER : 15 SSER : SER/SSER Impact : No	
15.1-20	4 Deletes the discussion of the two cases considered in determining the core power and RCS transients. Editorial : The cases deleted are summarized in the methodology topical reports referenced in Appendices 4A and 4B for Unit 1 and unit 2 respectively. Change Request Number : SA-93-96.39 Commitment Register Number : Related SER : 15 SSER : SER/SSER Impact : No	
15.1-20	4 Relocates discussion of offsite power availability on page 15.1-26 to item 5 on page 15.1-24. Editorial : Editorial relocation to accommodate creation of Appendices 4A and 4B. Change Request Number : SA-93-96.40 Commitment Register Number : Related SER : 15 SSER : SER/SSER Impact : No	
15.1-21	4 Relocates "Results" section of Steam System Piping Failure analysis. Editorial : Cycle specific information and analysis methodologies are contained in Appendices 4A and 4B for Unit 1 and unit 2 respectively. Change Request Number : SA-93-96.41 Commitment Register Number : Related SER : 15 SSER :	

FSAR Page (as amended)		Group Description
		SER/SSER Impact : No
15.1-25	4	<p>Deletes references 1 and 5 and renumbers the remaining references.</p> <p>Editorial :</p> <p>Cycle specific information and analysis methodologies are contained in Appendices 4A and 4B for Unit 1 and unit 2 respectively.</p> <p>Change Request Number : SA-93-96.42</p> <p>Commitment Register Number :</p> <p>Related SER : 15 SSER :</p> <p>SER/SSER Impact : No</p>
Table 15.1-1	4	<p>Deletes Table 15.1-1.</p> <p>Editorial :</p> <p>The information provided in this Table is cycle specific and below the level of detail necessary for understanding this event. A summary of the cycle specific information and analysis methodologies are contained in Appendices 4A and 4B for Unit 1 and unit 2 respectively.</p> <p>Change Request Number : SA-93-96.43</p> <p>Commitment Register Number :</p> <p>Related SER : 15 SSER :</p> <p>SER/SSER Impact : No</p>
Figure 15.1-1A	4	<p>See Sheet No(s) : Figures 15.1-1A, 1B thru 15.1-17A, 17B</p> <p>Deletes Figures 15.1-1A thru 15.1-17B.</p> <p>Editorial :</p> <p>The information provided in these figures is cycle specific and below the level of detail necessary for understanding the events. A summary of the results of cycle specific analyses and the analyses methodologies are contained in Appendices 4A and 4B for Unit 1 and unit 2 respectively.</p> <p>Change Request Number : SA-93-96.44</p> <p>Commitment Register Number :</p> <p>Related SER : 15 SSER :</p> <p>SER/SSER Impact : No</p>
15.2-2	4	<p>Deletes discussion of the sizing of pressurizer safety valves for Loss of External Electrical Load accident.</p> <p>Editorial :</p> <p>Cycle specific information and methodology dependent results and assumptions are contained in Appendices 4A and 4B for Unit 1 and unit 2 respectively.</p> <p>Change Request Number : SA-93-96.45</p> <p>Commitment Register Number :</p> <p>Related SER : 15 SSER :</p> <p>SER/SSER Impact : No</p>
15.2-8	4	Replaces description of turbine trip accident

FSAR Page
(as amended)

Group Description

methodologies and with a reference to Appendices 4A and 4B. Also deletes statement concerning uncertainties in initial conditions.

Editorial :

Cycle specific information, analysis methodologies, and methodology dependent results and assumptions are contained in Appendices 4A and 4B for Unit 1 and unit 2 respectively.

Change Request Number : SA-93-96.46

Commitment Register Number :

Related SER : 15 SSER :

SER/SSER Impact : No

15.2-9

- 4 Deletes the word "power" from Doppler power coefficient.

Clarification :

The use of a Doppler power coefficient or a Doppler fuel temperature coefficient is a methodology specific assumption, incorporated through references contained in Appendices 4A and 4B. Cycle specific information, analysis methodologies, and methodology dependent results and assumptions are contained in Appendices 4A and 4B for Unit 1 and unit 2 respectively.

Change Request Number : SA-93-96.46

Commitment Register Number :

Related SER : 15 SSER :

SER/SSER Impact : No

15.2-10

- 4 Deletes "Results" for the turbine trip accident.

Editorial :

Cycle specific information, analysis methodologies, and methodology dependent results and assumptions are contained in Appendices 4A and 4B for Unit 1 and unit 2 respectively.

Change Request Number : SA-93-96.47

Commitment Register Number :

Related SER : 15 SSER :

SER/SSER Impact : No

15.2-11

- 4 Adds a reference to Appendices 4A and 4B for the results of the turbine trip analyses.

Editorial :

Cycle specific information, analysis methodologies, and methodology dependent results and assumptions are contained in Appendices 4A and 4B for Unit 1 and unit 2 respectively.

Change Request Number : SA-93-96.48

Commitment Register Number :

Related SER : 15 SSER :

SER/SSER Impact : No

15.2-15

- 4 Deletes a discussion of the computer methodology

FSAR Page
(as amended)

Group Description

used to analyse transient response following a loss of Non-Emergency AC power.

Editorial :

Cycle specific information, analysis methodologies, and methodology dependent results and assumptions are contained in Appendices 4A and 4B for Unit 1 and unit 2 respectively.

Change Request Number : SA-93-96.49

Commitment Register Number :

Related SER : 15 SSER :

SER/SSER Impact : No

15.2-15

4

See Sheet No(s) :18

Replaces the assumption of initial power of 102% with statement of allowable uncertainty of 2% for plant calorimetric measurement.

Clarification :

This clarifies the basis for the 102% power assumption (i.e., 100% power plus 2% uncertainty).

Change Request Number : SA-93-96.50

Commitment Register Number :

Related SER : 15 SSER :

SER/SSER Impact : No

15.2-16

4

Deletes the results section of the loss of non-emergency power accident.

Editorial :

Cycle specific information, analysis methodologies, and methodology dependent results and assumptions are contained in Appendices 4A and 4B for Unit 1 and unit 2 respectively.

Change Request Number : SA-93-96.52

Commitment Register Number :

Related SER : 15 SSER :

SER/SSER Impact : No

15.2-16

4

See Sheet No(s) :19

Deletes discuss of specific reactivity feedbacks.

Editorial :

Specific reactivity feedbacks are methodology specific assumptions which are contained in Appendices 4A and 4B for Unit 1 and unit 2 respectively.

Change Request Number : SA-93-96.51

Commitment Register Number :

Related SER : 15 SSER :

SER/SSER Impact : No

15.2-18

4

Replaces the discussion of the computer analysis used to analyses the loss of feedwater accident with a reference to Appendices 4A and 4B.

Editorial :

Cycle specific information, analysis methodologies,

FSAR Page
(as amended)

Group Description

and methodology dependent results and assumptions are contained in Appendices 4A and 4B for Unit 1 and unit 2 respectively.

Change Request Number : SA-93-96.53
Commitment Register Number :
Related SER : 15 SSER :
SER/SSER Impact : No

- 15.2-21 4 Deletes discussion of auxiliary feedwater flow rate for loss of normal feedwater accident.
Editorial :
This discussion is redundant to information provided on page 15.2-1.
Change Request Number : SA-93-96.54
Commitment Register Number :
Related SER : 15 SSER :
SER/SSER Impact : No
- 15.2-21 4 Deletes results section of the loss of normal feedwater accident.
Editorial :
Cycle specific information, analysis methodologies, and methodology dependent results and assumptions are contained in Appendices 4A and 4B for Unit 1 and unit 2 respectively.
Change Request Number : SA-93-96.55
Commitment Register Number :
Related SER : 15 SSER :
SER/SSER Impact : No
- 15.2-24 4 Deletes reference to WCAP-9230 and adds a reference to Appendices 4A and 4B.
Editorial :
Cycle specific information, including analysis methodologies, and methodology dependent results and assumptions are contained in Appendices 4A and 4B for Unit 1 and unit 2 respectively.
Change Request Number : SA-93-96.56
Commitment Register Number :
Related SER : 15 SSER :
SER/SSER Impact : No
- 15.2-25 4 Deletes the discussion of specific feedline break discharge quality (assumption no. 8).
Editorial :
Cycle specific information, including analysis methodologies, and methodology dependent results and assumptions are contained in Appendices 4A and 4B for Unit 1 and unit 2 respectively.
Change Request Number : SA-93-96.57
Commitment Register Number :
Related SER : 15 SSER :
SER/SSER Impact : No

Group Description

- | | | |
|--------------|---|--|
| 15.2-27 | 4 | <p>Deletes the approximate number of megawatts of reactor coolant pump heat addition to the RCS.</p> <p>Clarification :</p> <p>As used by Westinghouse, the value of the RCP heat addition to the RCS is dependent on heat losses through convection and charging and letdown. Westinghouse actually used 5 megawatts per RCP in this analysis; the 3.5 megawatt per RCP is a net value based on the assumed heat losses. To prevent confusion and because it is not relevant in the context that it is used, the specific value is deleted.</p> <p>Change Request Number : SA-93-96.58</p> <p>Commitment Register Number :</p> <p>Related SER : 15 SSER :</p> <p>SER/SSER Impact : No</p> |
| 15.2-28 | 4 | <p>Deletes the "Results" section of the feedline break accident description.</p> <p>Editorial :</p> <p>Cycle specific information, including analysis methodologies, and methodology dependent results and assumptions are contained in Appendices 4A and 4B for Unit 1 and unit 2 respectively.</p> <p>Change Request Number : SA-93-96.59</p> <p>Commitment Register Number :</p> <p>Related SER : 15 SSER :</p> <p>SER/SSER Impact : No</p> |
| 15.2-30 | 4 | <p>Deletes References 3 through 6 in the reference section.</p> <p>Editorial :</p> <p>Cycle specific information, including analysis methodologies, and methodology dependent results and assumptions are contained in Appendices 4A and 4B for Unit 1 and unit 2 respectively.</p> <p>Change Request Number : SA-93-96.60</p> <p>Commitment Register Number :</p> <p>Related SER : 15 SSER :</p> <p>SER/SSER Impact : No</p> |
| Table 15.2-1 | 4 | <p>Deletes Table 15.2-1.</p> <p>Editorial :</p> <p>The information provided in these tables is cycle specific and below the level of detail necessary for understanding the events. A summary of the results of cycle specific analyses and the analyses methodologies are contained in Appendices 4A and 4B for Unit 1 and unit 2 respectively.</p> <p>Change Request Number : SA-93-96.61</p> <p>Commitment Register Number :</p> <p>Related SER : 15 SSER :</p> |

FSAR Page (as amended)	Group Description	
	SER/SSER Impact	: No
Figure 15.2-1A	4	<p>See Sheet No(s) :F15.2-1A thru F15.2-26A Deletes all figures in FSAR Section 15.2. Editorial :</p> <p>The information provided in these figures is cycle specific and below the level of detail necessary for understanding the events. A summary of the results of cycle specific analyses and the analyses methodologies are contained in Appendices 4A and 4B for Unit 1 and unit 2 respectively. Change Request Number : SA-93-96.62 Commitment Register Number : Related SER : 15 SSER : SER/SSER Impact : No</p>
15.3-3	4	<p>See Sheet No(s) :4, 6, 8, 9, 10, 11 Deletes cycle specific/methodology specific information for the Partial Loss of Coolant Flow Accident, Complete Loss of Coolant Flow Accident and the RCP Shaft Seizure (Locked Rotor) Accident related to the transient analyses methodologies used, initial conditions and uncertainties, doppler and moderator coefficients, trip reactivity insertion rate, and flow coastdown analysis pressure assumption and limiting conditions. Editorial :</p> <p>Cycle specific information, including analysis methodologies, and methodology dependent results and assumptions are contained in Appendices 4A and 4B for Unit 1 and unit 2 respectively. Change Request Number : SA-93-96.63 Commitment Register Number : Related SER : 15 SSER : SER/SSER Impact : No</p>
15.3-4	4	<p>See Sheet No(s) :6 & 12 Deletes the "Results" section of the Partial Loss of Coolant Flow Accident, the Complete Loss of Coolant Flow Accident and the RCP Shaft Seized Accident. Editorial :</p> <p>Cycle specific information, including analysis methodologies, and methodology dependent results and assumptions are contained in Appendices 4A and 4B for Unit 1 and unit 2 respectively. Change Request Number : SA-93-96.64 Commitment Register Number : Related SER : 15 SSER : SER/SSER Impact : No</p>
15.3-5	3	<p>Adds information concerning the RCP underfrequency trip. Addition :</p>

FSAR Page (as amended)	Group Description
	<p>Clarifies the difference between the undervoltage and underfrequency reactor trip functions.</p> <p>Change Request Number : SA-93-96.66</p> <p>Commitment Register Number :</p> <p>Related SER : 15 SSER :</p> <p>SER/SSER Impact : No</p>
15.3-7	<p>4 Adds the word "average" to the peak clad "average" temperature.</p> <p>Clarification :</p> <p>The acceptance criteria is more accurately referred to as "peak clad average temperature." This clarification is made to avoid confusion with terminology used in methodology reports referenced in Appendices 4A and 4B.</p> <p>Change Request Number : SA-93-96.67</p> <p>Commitment Register Number :</p> <p>Related SER : 15 SSER :</p> <p>SER/SSER Impact : No</p>
15.3-14	<p>4 Deletes references 1 and 2 in the reference section of the Loss of Flow Accidents.</p> <p>Editorial :</p> <p>Cycle specific information, including analysis methodologies, and methodology dependent results and assumptions are contained in Appendices 4A and 4B for Unit 1 and unit 2 respectively.</p> <p>Change Request Number : SA-93-96.68</p> <p>Commitment Register Number :</p> <p>Related SER : 15 SSER :</p> <p>SER/SSER Impact : No</p>
Table 15.3-1	<p>4 Deletes Table 15.3-1.</p> <p>Editorial :</p> <p>The information provided in this table is cycle specific and below the level of detail necessary for understanding the associated events. A summary of the results of cycle specific analyses and the analyses methodologies are contained in Appendices 4A and 4B for Unit 1 and unit 2 respectively.</p> <p>Change Request Number : SA-93-96.69</p> <p>Commitment Register Number :</p> <p>Related SER : 15 SSER :</p> <p>SER/SSER Impact : No</p>
Table 15.3-2	<p>4 Deletes Table 15.3-2.</p> <p>Editorial :</p> <p>The information provided in this table is summarized in Appendices 4A and 4B for Unit 1 and unit 2 respectively.</p> <p>Change Request Number : SA-93-96.70</p> <p>Commitment Register Number :</p> <p>Related SER : 15 SSER :</p>

FSAR Page
(as amended)

Group Description

SER/SSER Impact : No

Figure 15.3-1A

4

See Sheet No(s) : F15.3-1B thru F15.3-20B
Deletes all FSAR Section 15.3 figures.

Editorial :

The information provided in these figures is cycle specific and below the level of detail necessary for an FSAR level understanding of the associated events. A summary of the results of cycle specific analyses and the analyses methodologies are contained in Appendices 4A and 4B for Unit 1 and unit 2 respectively.

Change Request Number : SA-93-96.71

Commitment Register Number :

Related SER : 15 SSER :

SER/SSER Impact : No

15.4-5

4

Clarifies that the doppler coefficient is conservatively selected to to maximize power peak.

Clarification :

Clarification only.

Change Request Number : SA-93-96.73

Commitment Register Number :

Related SER : 15 SSER :

SER/SSER Impact : No

15.4-5

4

Deletes methodology specific details for selection of moderator temperature coefficient to maximize peak heat flux.

Clarification :

Cycle specific information, including analysis methodologies, and methodology dependent results and assumptions are contained in Appendices 4A and 4B for Unit 1 and unit 2 respectively.

Change Request Number : SA-93-96.74

Commitment Register Number :

Related SER : 15 SSER :

SER/SSER Impact : No

15.4-5

4

See Sheet No(s) : 9, 15, 16, 18, 32, 34, 36 & 39 thru 43
Deletes the discussions of analytical methodologies used for the analysis of the uncontrolled RCCA bank withdrawal accident (from subcritical and at power), dropped RCCAs, dropped RCCA bank, statistically misaligned RCCA, inadvertent loading and operation of a fuel assembly in an inappropriate position, and a spectrum of rod ejection accidents, replacing them with references to Appendices 4A and 4B.

Editorial :

Cycle specific information, including analysis methodologies, and methodology dependent results and assumptions are contained in Appendices 4A and 4B for Unit 1 and unit 2 respectively.

FSAR Page (as amended)	Group Description
	Change Request Number : SA-93-96.72 Commitment Register Number : Related SER : 15 SSER : SER/SSER Impact : No
15.4-6	4 Deletes the Unit specific reactivity insertion rates used for the uncontrolled RCCA withdrawal accident analysis. Editorial : Relevant cycle specific information, including analysis methodologies, and methodology dependent results and assumptions are contained in Appendices 4A and 4B for Unit 1 and unit 2 respectively. Change Request Number : SA-93-96.75 Commitment Register Number : Related SER : 15 SSER : SER/SSER Impact : No
15.4-7	4 Deletes reference to Standard Thermal Design Procedure methodology. Editorial : Relevant cycle specific information, including analysis methodologies, and methodology dependent results and assumptions are contained in Appendices 4A and 4B for Unit 1 and unit 2 respectively. Change Request Number : SA-93-96.76 Commitment Register Number : Related SER : 15 SSER : SER/SSER Impact : No
15.4-7	3 Deletes the unit difference for pressurizer pressure uncertainty. Revision : This change makes the FSAR consistent with a recently approved Technical Specification change which revised the Unit 1 pressurizer pressure uncertainty to be the same as Unit 2 - 30 psi. Change Request Number : SA-93-96.77 Commitment Register Number : Related SER : 15 SSER : SER/SSER Impact : No
15.4-7	4 See Sheet No(s) :11 Deletes the accident analysis "Results" section of the uncontrolled RCCA bank withdrawal (from subcritical and at power). Editorial : Relevant cycle specific information, including analysis methodologies, and methodology dependent results and assumptions are contained in Appendices 4A and 4B for Unit 1 and unit 2 respectively. Change Request Number : SA-93-96.78 Commitment Register Number :

FSAR Page
(as amended)

Group Description

Related SER : 15 SSER :
SER/SSER Impact : No

- 15.4-9 4 Deletes statement concerning drawing of protection lines.
Clarification :
The sentence was deleted because it was confusing and was not relevant to the topic being discussed. The setpoint uncertainty calculation includes allowances for adverse instrumentation setpoint errors, not the protection lines shown in Figure 15.0-1.
Change Request Number : SA-93-96.79
Commitment Register Number :
Related SER : 15 SSER :
SER/SSER Impact : No
- 15.4-10 4 Deletes the discussion of variable doppler power coefficient and replaces it with a general statement of assuming a conservative power coefficient.
Clarification :
Relevant cycle specific information, including analysis methodologies, and methodology dependent results and assumptions are contained in Appendices 4A and 4B for Unit 1 and unit 2 respectively.
Change Request Number : SA-93-96.80
Commitment Register Number :
Related SER : 15 SSER :
SER/SSER Impact : No
- 15.4-15 4 See Sheet No(s) :16 thru 19
Rearranges the description of dropped RCCAs, dropped RCCA bank, statistically misaligned RCCA, and the single RCCA withdrawal events so that the "Results" section is part of the description of the event.
Editorial :
The information originally provided in the "Results" section is more appropriately located in the description of the events. Relevant cycle specific information, including analysis methodologies, and methodology dependent results and assumptions are contained in Appendices 4A and 4B for Unit 1 and unit 2 respectively.
Change Request Number : SA-93-96.81
Commitment Register Number :
Related SER : 15 SSER :
SER/SSER Impact : No
- 15.4-24 3 See Sheet No(s) :26 thru 30
Revises the description of the inadvertant boron dilution event in Modes 3, 4 and 5 to be consistent with the revised analysis and methodology used for the removal of the boron dilution mitigation system

FSAR Page
(as amended)

Group Description

from the technical specifications.

Addition :

The NRC approved the analysis of this event in

Amendment 20 and 6 to CPSES units 1 and 2 licenses.

Change Request Number : SA-93-96.82

Commitment Register Number :

Related SER : 15 SSER :

SER/SSER Impact : No

15.4-32

4 See Sheet No(s) :33 & 34

Incorporates the information originally in the "Results" section of the inadvertent loading and operation of a fuel assembly in an inappropriate location event, into the "Method of Analysis" section, and deletes certain cycle specific information.

Editorial :

The rearrangement of information provides a more appropriate description of the event. Relevant cycle specific information, including analysis methodologies, and methodology dependent results and assumptions are contained in Appendices 4A and 4B for Unit 1 and unit 2 respectively.

Change Request Number : SA-93-96.83

Commitment Register Number :

Related SER : 15 SSER :

SER/SSER Impact : No

15.4-44

4 See Sheet No(s) :45

Replaces the existing subsection heading "Environmental Consequences" with a new subsection heading "Radiological Consequences" and adds a new "Environmental Consequences" section containing a portion of the information previously in the "Results" section.

Editorial :

This information has been rearranged for clarity and to accommodate the creation of Appendices 4A and 4B for Unit 1 and unit 2 respectively.

Change Request Number : SA-93-96.85

Commitment Register Number :

Related SER : 15 SSER :

SER/SSER Impact : No

15.4-44

4 See Sheet No(s) :49

Deletes the "Results" section of the spectrum of rod ejection events.

Editorial :

Relevant cycle specific information, including analysis methodologies, and methodology dependent results and assumptions are contained in Appendices 4A and 4B for Unit 1 and unit 2 respectively.

Change Request Number : SA-93-96.84

FSAR Page
 (as amended)

Group Description

Commitment Register Number :
 Related SER : 15 SSER :
 SER/SSER Impact : No

15.4-50 4 Deletes references 1, 2, 3 5, 6, 8, 9 and 11 thru 14, from the Section 15.4 References.
 Editorial :
 Relevant cycle specific information, including analysis methodologies, and methodology dependent results and assumptions are contained in Appendices 4A and 4B for Unit 1 and unit 2 respectively.
 Change Request Number : SA-93-96.86
 Commitment Register Number :
 Related SER : 15 SSER :
 SER/SSER Impact : No

Table 15.4-1 4 Deletes Table 15.4-1.
 Editorial :
 The information provided in this table is cycle specific and below the level of detail necessary for understanding the events. A summary of the results of cycle specific analyses and the analyses methodologies are contained in Appendices 4A and 4B for Unit 1 and unit 2 respectively.
 Change Request Number : SA-93-96.87
 Commitment Register Number :
 Related SER : 15 SSER :
 SER/SSER Impact : No

Table 15.4-2 4 Deletes Table 15.4-2.
 Editorial :
 The information provided in this Table is cycle specific and below the level of detail necessary for understanding the events. A summary of the results of cycle specific analyses and the analyses methodologies are contained in Appendices 4A and 4B for Unit 1 and unit 2 respectively.
 Change Request Number : SA-93-96.88
 Commitment Register Number :
 Related SER : 15 SSER :
 SER/SSER Impact : No

Table 15.4-3 4 Deletes Table 15.4-3.
 Editorial :
 The information provided in this table is cycle specific and below the level of detail necessary for understanding the events. A summary of the results of cycle specific analyses and the analyses methodologies are contained in Appendices 4A and 4B for Unit 1 and unit 2 respectively.
 Change Request Number : SA-93-96.89
 Commitment Register Number :
 Related SER : 15 SSER :

FSAR Page
(as amended)

Group Description

SER/SSER Impact : No

Figure 15.4-1A	4	See Sheet No(s) : F15.4-1B thru F15.4-30 Deletes Figures 15.4-1A thru 15.4-30. Editorial : The information provided in these figures is cycle specific and below the level of detail necessary for understanding the events. A summary of the results of cycle specific analyses and the analyses methodologies are contained in Appendices 4A and 4B for Unit 1 and unit 2 respectively. Change Request Number : SA-93-96.90 Commitment Register Number : Related SER : 15 SSER : SER/SSER Impact : No
15.5-1	4	See Sheet No(s) : 4 & 5 Deletes cycle specific and methodology specific information for the inadvertant operation of ECCS during power operations event. Editorial : Relevant cycle specific information, including analysis methodologies, and methodology dependent results and assumptions are contained in Appendices 4A and 4B for Unit 1 and unit 2 respectively. Change Request Number : SA-93-96.91 Commitment Register Number : Related SER : 15 SSER : SER/SSER Impact : No
15.5-6	4	Deletes the "results" section of the inadvertant operation of the ECCS during power operations event. Editorial : Relevant cycle specific information, including analysis methodologies, and methodology dependent results and assumptions are contained in Appendices 4A and 4B for Unit 1 and unit 2 respectively. Change Request Number : SA-93-96.92 Commitment Register Number : Related SER : 15 SSER : SER/SSER Impact : No
15.5-6	4	Deletes the reference section of Section 15.5. Editorial : Relevant cycle specific information, including analysis methodologies, and methodology dependent results and assumptions are contained in Appendices 4A and 4B for Unit 1 and unit 2 respectively. Change Request Number : SA-93-96.93 Commitment Register Number : Related SER : 15 SSER : SER/SSER Impact : No

FSAR Page (as amended)		Group Description
Table 15.5-1	4	<p>Deletes Table 15.5-1.</p> <p>Editorial :</p> <p>The information provided in this table is cycle specific and below the level of detail necessary for understanding the events. A summary of the results of cycle specific analyses and the analyses methodologies are contained in Appendices 4A and 4B for Unit 1 and unit 2 respectively.</p> <p>Change Request Number : SA-93-96.94</p> <p>Commitment Register Number :</p> <p>Related SER : 15 SSER :</p> <p>SER/SSER Impact : No</p>
Figure 15.5-1	4	<p>See Sheet No(s) : F15.5-2 & F15.5-3</p> <p>Deletes Figures 15.5-1 through 15.5-3.</p> <p>Editorial :</p> <p>The information provided in these figures is cycle specific and below the level of detail necessary for understanding the events. A summary of the results of cycle specific analyses and the analyses methodologies are contained in Appendices 4A and 4B for Unit 1 and unit 2 respectively.</p> <p>Change Request Number : SA-93-96.95</p> <p>Commitment Register Number :</p> <p>Related SER : 15 SSER :</p> <p>SER/SSER Impact : No</p>
15.6-2	4	<p>See Sheet No(s) : 3, 10, 13, 14 and 15.</p> <p>Deletes methodology specific information for the inadvertant opening of a pressurizer safety accident and the steam generator tube rupture event.</p> <p>Editorial :</p> <p>Relevant cycle specific information, including analysis methodologies, and methodology dependent results and assumptions are contained in Appendices 4A and 4B for Unit 1 and unit 2 respectively.</p> <p>Change Request Number : SA-93-96.96</p> <p>Commitment Register Number :</p> <p>Related SER : 15 SSER :</p> <p>SER/SSER Impact : No</p>
15.6-3	4	<p>Deletes the "Results" section of the inadvertant opening of a pressurizer safety accident.</p> <p>Editorial :</p> <p>Relevant cycle specific information, including analysis methodologies, and methodology dependent results and assumptions are contained in Appendices 4A and 4B for Unit 1 and unit 2 respectively.</p> <p>Change Request Number : SA-93-96.97</p> <p>Commitment Register Number :</p> <p>Related SER : 15 SSER :</p> <p>SER/SSER Impact : No</p>

FSAR Page (as amended)		Group Description
15.6-13	4	<p>Deletes the "Results" subsection heading and incorporates the information in that section into the "Environmental Consequences" section.</p> <p>Editorial :</p> <p>This section was rearranged for clarity.</p> <p>Change Request Number : SA-93-96.98</p> <p>Commitment Register Number :</p> <p>Related SER : 15 SSER :</p> <p>SER/SSER Impact : No</p>
15.6-20	3	<p>A textual description is used in place of an outdated figure.</p> <p>Revision :</p> <p>The information equivalent to the figure is contained in the revised text.</p> <p>Change Request Number : SA-93-96.99</p> <p>Commitment Register Number :</p> <p>Related SER : 15 SSER :</p> <p>SER/SSER Impact : No</p>
15.6-21	3	<p>Several numerical values (i.e., accumulator cover pressure and blowdown phase RCS pressure) are replaced with general description of affected parameter.</p> <p>Revision :</p> <p>Text is modified to reduce excessive detail, much of which is no longer relevant. Necessary cycle specific numeric values are summarized in Appendices 4A and 4B.</p> <p>Change Request Number : SA-93-96.99</p> <p>Commitment Register Number :</p> <p>Related SER : 15 SSER :</p> <p>SER/SSER Impact : No</p>
15.6-22	3	<p>See Sheet No(s) : 23 thru 28</p> <p>FSAR Section 15.6.5.3 is re-written to incorporate the revised small and large break analysis methodologies. In addition editorial changes and clarifications are made to better distinguish between the Unit 1 and Unit 2 small and large break LOCA analyses. Furthermore, a significant amount of information representing excessive detail or historical data which is no longer relevant is deleted.</p> <p>Revision :</p> <p>The revision makes the FSAR consistent with Technical Specification Section 6.9.1.6b which incorporated NRC approved analyses methodologies per License Amendment 21 (Unit 1) and 7 (Unit 2). To improve clarity and readability, historical, outdated, and excessively detailed information is deleted. However, the relevant cycle specific information, including analysis methodologies, and</p>

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methodology dependent results and assumptions are summarized in Appendices 4A and 4B for Unit 1 and unit 2 respectively.

Change Request Number : SA-93-96.99
Commitment Register Number :
Related SER : 15 SSER :
SER/SSER Impact : No

15.6-41

- 4 The reference section for FSAR Section 15.6 is revised to be consistent with revised methodology contained in TS 6.9.1.6b.
Editorial :
Revised methodologies were approved by the NRC in License Amendment 21 (Unit 1) and 7 (Unit 2).
Change Request Number : SA-93-96.99
Commitment Register Number :
Related SER : 15 SSER :
SER/SSER Impact : No

Table 15.6-1

- 4 Deletes Table 15.6-1.
Editorial :
The information provided in this Table is cycle specific and below the level of detail necessary for understanding the events. A summary of the results of cycle specific analyses and the analyses methodologies are contained in Appendices 4A and 4B for Unit 1 and unit 2 respectively.
Change Request Number : SA-93-96.99
Commitment Register Number :
Related SER : 15 SSER :
SER/SSER Impact : No

Table 15.6-5

- 4 Updated table to include revised Unit 1 small and large break LOCA analysis input parameters. In addition, a listing of the containment parameters for large break LOCA was added thus eliminating the reference to FSAR Section 6.2. Because the Section 15.6 figures were deleted the power shape parameter was replaced with a general description. Also the fuel assembly and accumulator tank volume parameters were deleted.
Editorial :
LOCA parameters were updated to reflect new methodology performed (consistent with License Amendment 21/7 approved methodologies). The parameters that were deleted were considered irrelevant and excess detail.
Change Request Number : SA-93-96.99
Commitment Register Number :
Related SER : 15 SSER :
SER/SSER Impact : No

Table 15.6-6

- 4 Deletes Table 15.6-6.

FSAR Page
(as amended)

Group Description

		<p>Editorial :</p> <p>This table is deleted because the information (particularly, the generic sensitivity studies) represents historical data and excessive detail which is no longer relevant. The results (peak cladding temperature, local and total core metal-water reaction percentages) for the Unit 1 and Unit 2 limiting large break LOCA analyses have been relocated to Appendices 4A and 4B respectively.</p> <p>Change Request Number : SA-93-96.99</p> <p>Commitment Register Number :</p> <p>Related SER : 15 SSER :</p> <p>SER/SSER Impact : No</p>
Table 15.6-7	4	<p>Deletes Table 15.6-7.</p> <p>Editorial :</p> <p>This table is deleted because the information represents historical data and excessive detail which is no longer relevant. The results (peak cladding temperature, local and total core metal-water reaction percentages) for the Unit 1 and Unit 2 limiting small break LOCA analyses have been relocated to Appendices 4A and 4B respectively.</p> <p>Change Request Number : SA-93-96.99</p> <p>Commitment Register Number :</p> <p>Related SER : 15 SSER :</p> <p>SER/SSER Impact : No</p>
Figure 15.6-1A	4	<p>See Sheet No(s) : Figures 15.6-1B thru 15.6-4</p> <p>Deletes Figures 15.6-1A, 1B, 2A, 2B, 3, 3A & 4.</p> <p>Editorial :</p> <p>The information provided in these figures is cycle specific and below the level of detail necessary for understanding the events. A summary of the results of cycle specific analyses and the analyses methodologies are contained in Appendices 4A and 4B for Unit 1 and unit 2 respectively.</p> <p>Change Request Number : SA-93-96.99</p> <p>Commitment Register Number :</p> <p>Related SER : 15 SSER :</p> <p>SER/SSER Impact : No</p>
Figure 15.6-5	4	<p>Revises Figure 15.6-5 title block from "Units 1 and 2" to "Unit 2" only.</p> <p>Editorial :</p> <p>This change is required due to incorporation of TU Electric Unit 1 large break ECCS evaluation model.</p> <p>Change Request Number : SA-93-96.99</p> <p>Commitment Register Number :</p> <p>Related SER : 15 SSER :</p> <p>SER/SSER Impact : No</p>
Figure 15.6-6	4	<p>Revises figure by removing the Unit differences</p>

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Group Description

identified in the figure.

Editorial :

This change was required because the application of the Westinghouse NOTRUMP small break ECCS evaluation model has been extended to both Units.

Change Request Number : SA-93-96.99

Commitment Register Number :

Related SER : 15 SSER :

SER/SSER Impact : No

Figure 15.6-7A

4 See Sheet No(s) : Figures 15.6-7B thru 15.6-89
Deletes figures.

Editorial :

These figures are deleted because they represent historic data which is no longer relevant and is excessively detailed.

Change Request Number : SA-93-96.99

Commitment Register Number :

Related SER : 15 SSER :

SER/SSER Impact : No

TMI III.A-7

3 Change description of TSC activation from "the TSC should be activated within sixty (60) minutes." to " the TSC should be activated as prescribed in the CPSES Emergency Plan."

Update :

The change is made to update and remove unnecessary detail from the FSAR and to provide consistency with the primary licensing basis document for CPSES emergency preparedness (i.e., the CPSES Emergency Plan). The NRC has reviewed and approved more current facility activation criteria as specified in CPSES Emergency Plan, Rev. 11. NRC approval is documented in SSER 22, Appendix G, dated January, 1990.

Change Request Number : SA-94-71.1

Commitment Register Number :

Related SER : SSER :22 APP. G

SER/SSER Impact : No

TMI III.A-17

3 Change description of EOF activation from "Upon EOF activation, designated personnel will report directly to the EOF to achieve full functional operation within 60 minutes." to " Upon declaration of a Site Area Emergency or a General Emergency, the EOF should be activated as prescribed in the CPSES Emergency Plan."

Update :

See justification for revised FSAR page III.A-7 and Change Request Number SA-94-071.1.

Change Request Number : SA-94-71.2

Commitment Register Number :

Related SER : SSER :22 APP. G

FSAR Page (as amended)	Group Description	
	SER/SSER Impact	: No
Q&R 040-127	4	<p>Revises the response to NRC question 040.92 to reference FSAR Section 8.3.1.1.1.3.</p> <p>Editorial :</p> <p>The response is relocated to the FSAR Section 8.3.1.1.1.3 in preparation for the issue of Updated Safety Analysis Report (USAR).</p> <p>Change Request Number : SA-92-162.1</p> <p>Commitment Register Number :</p> <p>Related SER : 8.3.1 SSER :22 8.3.1</p> <p>SER/SSER Impact : No</p>
Q&R 040-155	4	<p>The response to Q040.117 is being relocated to FSAR section 13.2.</p> <p>Q&R Incorporation :</p> <p>This relocation is in preparation for the deletion of the Q&R sections from the updated safety analysis report. This change is consistent with the current commitment. This change is editorial in nature.</p> <p>NOTE: No print ready replacement page for this Q&R will be included with this amendment (92), due to the deletion of the Q&R sections.</p> <p>Change Request Number : SA-94-48.2</p> <p>Commitment Register Number : 01695</p> <p>Related SER : SSER :</p> <p>SER/SSER Impact : No</p>
Q&R 121-12	4	<p>Adds a note to the response for Q121.7 stating that the information related to the date of purchase order of reactor vessel, firm with whom purchase order placed, and vessel fabricator will not be incorporated into the updated FSAR text. The information related to the applicable code edition is contained in Table 5.2-1 as indicated in the response. Also adds appropriate Q&R margin notation to identify location of incorporation.</p> <p>Update :</p> <p>This is an editorial change to this response in preparation for deletion of the Q&R Section when the updated FSAR is prepared. The information not being incorporated into the FSAR text was a point-in-time response to facilitate the staff's review, and is beyond the level of detail which is appropriate for the FSAR.</p> <p>Change Request Number : SA-94-49.1</p> <p>Commitment Register Number :</p> <p>Related SER : 5.3 SSER :</p> <p>SER/SSER Impact : No</p>
Q&R Figure 121.3-1	4	<p>See Sheet No(s) :1</p> <p>Deletes Figure 121.3-1.</p> <p>Q&R Incorporation :</p>

FSAR Page
(as amended)

Group Description

In amendment 76, FSAR Figure 121.3-1 was identified for deletion, because it was no longer used in determination of the shift of the nil ductility temperature based on fluence and copper content in reactor vessel welds. It had been retained prior to this for historical purposes only in support of a response to Q121.3. The deletion was inadvertently omitted in amendment 76. It is corrected in this amendment prior to implementation of the USAR.

Change Request Number : SA-94-50.
Commitment Register Number :
Related SER : 5.3.2 SSER : 22 5.3.2
SER/SSER Impact : No

Q&R 331-15

4

Replace response of Q331.6 (Table 331.6-1), concerning estimated dose rates and cumulative man-rem exposures at CPSES, with reference to FSAR Section 12.4.3 and revised FSAR Table 12.4-3.

Q&R Incorporation :

This is a trivial change to ready the Q&R Section for deletion when the updated FSAR is prepared.

Change Request Number : SA-94-51.2
Commitment Register Number :
Related SER : 12.4 SSER :
SER/SSER Impact : No

Q&R Table 331.6-1

4

Relocate table listed information to revised FSAR Table 12.4-3.

Q&R Incorporation :

This is a trivial change to ready the Q&R Section for deletion when the updated FSAR is prepared.

Change Request Number : SA-94-51.3
Commitment Register Number :
Related SER : 12.4 SSER :
SER/SSER Impact : No

Q&R 362-3

4

Adds note to the response to Q363.3 stating that the information will not be incorporated into the updated FSAR.

Q&R Incorporation :

This is an editorial change to this response in preparation for the deletion of the Q&R Section when the updated FSAR is prepared. The information provided in the response to Q362.3 described the origin of Figure 2.5.4-43. This response was a point-in-time response to facilitate the staff's review, and is beyond the level of detail which is appropriate for the FSAR. Thus, the information in this response will not be incorporated into the updated FSAR text.

Change Request Number : SA-94-52.
Commitment Register Number :
Related SER : 2.5.4 SSER :

FSAR Page
(as amended)

Group Description

SER/SSER Impact : No

Q&R 423-62

4

Delete statement from Q423.31 as it no longer applies.

Q&R Incorporation :

The testing method used to control rod reactivity worths was the bank exchange method. This method precludes CPSES from determining any individual control rod worth. The testing in question was performed during initial startup testing of the units and accepted by the NRC per the final startup report issued 8/15/93. Therefore, this response was never applicable, so the appropriate test method in the body of FSAR section 14 is referenced. There is no need to include this response in the updated safety analysis report.

NOTE: No Q&R print ready replacement pages will be included in this amendment (92), due to the deletion of the Q&R sections from the updated safety analysis report.

Change Request Number : SA-94-48.3

Commitment Register Number :

Related SER : SSER :

SER/SSER Impact : No

Q&R 432-1

4

See Sheet No(s) :2,3,4,5,6

Replace response to Q432.1 thru Q432.25 concerning emergency preparedness issues with a reference to FSAR Section 13.3A and the CPSES Emergency Plan.

Q&R Incorporation :

This is a trivial change to ready the Q&R Section for deletion when the updated FSAR is prepared. The part of the response referring to revising the CPSES Emergency Plan to comply with NUREG-0654 guidance is adequately described in FSAR Section 13.3A. The response related to Q432.6 and Q432.7 (submittal of state and county plans) was a point-in-time response to NRC and is not relevant to the USAR. The CPSES onsite emergency preparedness program was found acceptable by the NRC in SSER 6 & 22, Appendix G.

Change Request Number : SA-94-53.1

Commitment Register Number :

Related SER : SSER :6 APP G

SER/SSER Impact : No

Q&R 491-3

4

Adds note indicating that the response would not be incorporated into the updated FSAR.

Editorial :

As a result of the consolidation of FSAR Chapter 4 and the creation of Appendices 4A and 4B, the information in the text which generated the NRC Question 491.2, has been deleted (See discussion provided for page 4.1-1). The information provided

FSAR Page
(as amended)

Group Description

in that FSAR section and this response (concerning statistical combination of three uncertainties associated with FQ for Units 1 and 2) is considered to be excessively detailed and is already contained in documents referenced in Section 4.3 and/or Appendices 4A and 4B. In addition, as indicated in the the response to Q491.2, the information is applicable for Unit 2, Cycle 1 and is thus soon to be historical.

Change Request Number : SA-92-561.
Commitment Register Number :
Related SER : 4.3 SSER :
SER/SSER Impact : No