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File # 10010
Ref # 10CFR50.71(e)
10CFR50.54(a)

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Group Vice President

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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 91 DESCRIPTION

Gentlemen:

Amendment 91 to the CPSES FSAR was transmitted to you under a separate cover letter TXX-94086, dated April 20, 1994. The attachment to this letter provides line-by-line descriptions of the changes in Amendment 91. 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 91 have been reviewed under the TU Electric 10CFR50.59 process and found not to include any "unreviewed safety questions."

Amendment 91 essentially completes the process of incorporating the responses to NRC questions into the FSAR text. Incorporation of these responses, first described in TU Electric letter TXX-92286 dated May 31, 1992, is part of the process of converting the FSAR to an updated FSAR. It is expected that the NRC Question and Response sections of the FSAR, currently contained in FSAR Volumes XV, XVI and XVII, will be deleted in Amendment 92.

Sincerely,

William J. Cahill, Jr.
William J. Cahill, Jr.

By: *Roger D. Walker*
Roger D. Walker
Regulatory Affairs Manager

BSD
Attachment

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

A053
1/1

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PDR ADDCK 05000445
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CPSES - FINAL SAFETY ANALYSIS REPORT (FSAR)
 AMENDMENT / REVISION 91
 DETAILED DESCRIPTION

FSAR Page
 (as amended)

Group Description

1.2-16	2	<p>Clarifies description of fuel handling system. Clarification : These changes provide consistency within the FSAR. Change Request Number : SA-93-157.1 Commitment Register Number : Related SER : 9.1.4 SSER :1 9.1.4 SER/SSER Impact : No</p>
Table 1.6-1	4	<p>See Sheet No(s) :14 Updates information presented for WCAP-8587 by noting that it has been accepted by the NRC and that the version accepted was Revision 6 dated March 1983. Update : Updated information was provided via telecon with R. Owoc (Westinghouse) on February 9, 1994. Change Request Number : SA-92-296.2 Commitment Register Number : X1-0655 Related SER : 3.10 SSER :24 3.10 SER/SSER Impact : No</p>
Table 1.6-1	4	<p>See Sheet No(s) :18 Adds the following topical reports incorporated by reference: WCAP-9279, "Combination of Safe Shutdown Earthquake and Loss-of-Coolant Accident Responses for Faulted Condition Evaluation of Nuclear Power Plants," and WCAP-9283, "Integrity of the Primary Piping Systems of Westinghouse Nuclear Power Plants During Postulated Seismic Events." Addition : Relocation of a portion of Q112.7 response to FSAR text in preparation for the USAR. Change Request Number : SA-92-293.2 Commitment Register Number : Related SER : 3.9 SSER : SER/SSER Impact : No</p>
1A(B)-58	2	<p>The change is being issued to document the exception taken to the additional requirements regarding service/shelf life included in Regulatory Guide 1.84 for the contingent approval of ASME Code Case N31-1 for elastomer diaphragms used in ASME Class 2 and 3 applications. The change imposes the following conditions: (i) the service life of the elastomer diaphragms should be the lower of that determined based on (a) 1/2 of the average number of cycles from a minimum of three tests per the Code Case and (b) total anticipated radiation exposure during</p>

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(as amended)

Group Description

applicable operating modes determined based on valve operability requirements; and (ii) the shelf life of elastomer diaphragm should be determined in accordance with CPSES procedures for shelf life determination.

Revision :

The Regulatory Guide imposes generic service life and shelf life limitations for elastomer diaphragms, regardless of the material, in addition to the basic Code Case Requirements. CPSES uses diaphragms made from a material which has been extensively tested in accordance with the requirements of Code Case N31-1. The evaluation of diaphragm test results in conjunction with CPSES-specific system parameters resulted in a calculated diaphragm service life in excess of five years for most valves. While the Regulatory Guide 1.84 limitation on service life may be appropriate with regard to a generic reference to "elastomer diaphragms", it is overly restrictive for the material specified for use at CPSES. Diaphragm material aging tests, as part of the testing required by the Code Case, show no consequential degradation of the EPDM diaphragms. The CPSES procedurally controlled shelf life program is based on industry (e.g., EPRI NP-6804, Guidelines for Establishing, Maintaining, and Extending the Shelf Life Capability of Limited Life Items) likewise support the conclusion that EPDM is relatively insensitive to aging degradation.

Change Request Number : SA-93-142.1

Commitment Register Number : NL-7707

Related SER : 3.9.3 SSER :

SER/SSER Impact : No

1A(B)-62

4

Revises discussion of Reg. Guide 1.91 to read:
"Revision 1 (2/78) of this guide is addressed in Section 2.2.3".

Revision :

Relocation of a portion of Q&P 311.3 response to FSAR text in preparation for the USAR.

Change Request Number : SA-92-262.3

Commitment Register Number :

Related SER : 2.2 SSER :

SER/SSER Impact : No

1A(B)-86

3

Adds the following to the Section 1A(B) for NRC R.G. 1.137:

1. Add Q040.125 as a reference to a sentence discussing the sampling and testing of diesel fuel oil.

2. Revise exception taken to R>G> 1 137 for regulatory position C.2.b to include the exception taken in CPSES Technical Specifications

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(as amended)

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4.8.1.1.2d.2).

Update :

Following are the justification for the above changes:

1. Editorial Change: Incorporation of Q040.125 in FSAR text 1A(B).

2. Consistency Change; Update Section 1A(B) for R.G.1.137 to incorporate the exception taken in CPSES Technical Specification 4.8.1.1.2d.2).

Change Request Number : SA-92-186.6

Commitment Register Number :

Related SER : 9.5.4 SSER :22 9.5.4

SER/SSER Impact : No

1A(B)-92

2

Adds under discussion of Regulatory Guide 1.155 to reflect CPSES compliance to the regulatory guide as described in TU Electric letter logged TXX-92447, for meeting the Station Blackout requirements in accordance with 10CFR50.63.

Addition :

The Regulatory Guide 1.155 describes means acceptable to the NRC Staff for meeting the requirements of 10CFR50.63; TXX-92447, the TU Electric dual unit SBO submittal is already evaluated acceptable by the NRC Staff.

Change Request Number : SA-93-148.3

Commitment Register Number :

Related SER : SSER :26 8.4.10

SER/SSER Impact : No

1A(N)-65

4

Adds information on the stress limits used for Class 1 component bolting material to a discussion of Regulatory Guide 1.124.

Addition :

Relocation of a portion of Q112.13 response to FSAR text in preparation for the USAR.

Change Request Number : SA-92-294.5

Commitment Register Number : Y6-7615

Related SER : 3.9.3.1 SSER :23 3.9.3

SER/SSER Impact : No

1A(N)-76

2

Adds under discussion of Regulatory Guide 1.155 to reflect CPSES compliance to the regulatory guide as described in TU Electric letter logged TXX-92447, for meeting the Station Blackout requirements in accordance with 10CFR50.63.

Addition :

The Regulatory Guide 1.155 describes means acceptable to the NRC Staff for meeting the requirements of 10CFR50.63; TXX-92447, TU Electric dual unit SBO submittal is already evaluated acceptable by the NRC staff.

Change Request Number : SA-93-148.1

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 (as amended)

Group Description

		Commitment Register Number :	
		Related SER :	SSER :26 8.4.10
		SER/SSER Impact	: No
2.2-5	4	Adds information concerning detonation of explosives in mineral extraction operations and in the extinguishing of fires.	
		Addition :	
		Relocation of a portion of Q&R 311.3 response to text in preparation for the USAR.	
		Change Request Number	: SA-92-262.4
		Commitment Register Number :	
		Related SER : 2.2	SSER :
		SER/SSER Impact	: No
2.2-9	4	Clarifies the rationale for using design basis accident meteorological assumptions determined for a radioactive release in the analysis of a flammable and/or explosive source.	
		Clarification :	
		Relocation of a portion of Q&R 372.39 response to FSAR text in preparation for the USAR.	
		Change Request Number	: SA-92-490.2
		Commitment Register Number :	
		Related SER : 2.2	SSER :
		SER/SSER Impact	: No
2.2-10	4	Adds reference to discussion of atmospheric dispersion factors and the model used for virtual source correction located at the end of the same subsection.	
		Editorial :	
		Relocation of a portion of Q372.39 response to FSAR text in preparation for the USAR.	
		Change Request Number	: SA-92-490.3
		Commitment Register Number :	
		Related SER : 2.2	SSER :
		SER/SSER Impact	: No
2.2-10	4	Provides additional clarification within a summary of the studies conducted, which led to the conclusion that a wind speed of 1 m/s and stable atmospheric conditions are conservative values in the analysis of gas pipeline accidents.	
		Clarification :	
		Relocation of a portion of Q372.39 response to FSAR text in preparation for the USAR.	
		Change Request Number	: SA-92-490.4
		Commitment Register Number :	
		Related SER : 2.2	SSER :
		SER/SSER Impact	: No
2.2-11	4	See Sheet No(s) :12 and 13	

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(as amended)

Group Description

Adds information concerning effects of a gas well blowout and fire, and a description of the dispersion factors used.

Addition :

Relocation of a portion of the responses to Q311.3 & Q372.19 to FSAR text in preparation for the USAR.

Change Request Number : SA-92-262.5

Commitment Register Number :

Related SER : 2.2 SSER :

SER/SSER Impact : No

2.2-20

4

Revises reference to Reg. Guide 1.91 to indicate Revision 1.

Revision :

Update and relocation of a reference given in the response to Q311.3 to FSAR text in preparation for the USAR.

Change Request Number : SA-92-262.6

Commitment Register Number :

Related SER : 2.2 SSER :

SER/SSER Impact : No

2.3-41

4

Adds sentence which states that short-term diffusion estimates were recalculated to incorporate the modeling features of NRC Draft Reg. Guide 1.XXX. Also, modifies first sentence of the same paragraph to indicate that the calculations were "initially" performed in accordance with criteria in Reg. Guide 1.4.

Revision :

Relocation of a portion of Q&R 372.17 response to FSAR text in preparation for the USAR.

Change Request Number : SA-92-469.6

Commitment Register Number :

Related SER : 2.3.4 SSER :

SER/SSER Impact : No

2.3-41

4

See Sheet No(s) :42 and 43

Replaces the diffusion model for eight hours or less with the diffusion model for two hours or less.

Revision :

Relocation of a portion of Q372.17 response, and the entirety of the response to Q372.18, to the FSAR text in preparation for the USAR.

Change Request Number : SA-92-469.7

Commitment Register Number :

Related SER : 2.3.4 SSER :

SER/SSER Impact : No

2.3-44

4

Substitutes actual values (5- and 50-percentile values of one-hour dilution factors) for a reference to Table 2.3-30.

Editorial :

FSAR Page
(as amended)

Group Description

Table 2.3-30 is being deleted because most of the information in it resulted from calculations derived from the methodology in Reg. Guide 1.4, rather than from the recalculations based on Draft Reg. Guide 1.XXX, "Atmospheric Dispersion Models for Potential Accident Consequence Assessments at Nuclear Power Plants." Therefore, the reference is no longer valid, and the appropriate information, which is still valid, is being transferred from the Table to text.

Change Request Number : SA-92-469.8
Commitment Register Number :
Related SER : 2.3.4 SSER :
SER/SSER Impact : No

2.3-44

4

See Sheet No(s) :45
Replaces estimated values of dilution factors for periods up to 30 days with diffusion estimates for periods greater than two hours. Within the text on diffusion estimates, refers to Section 2.1.2 for a discussion of exclusion area boundary parameters.
Revision :

Relocation of a portion of Q&R 372.17 response to FSAR text in preparation for the USAR.

Change Request Number : SA-92-469.9
Commitment Register Number :
Related SER : 2.3.4 SSER :
SER/SSER Impact : No

2.3-47

4

See Sheet No(s) :48
Deletes "similar to Equation 2.3-7" from a discussion of calculations for long-term diffusion estimates.
Editorial :
Equation 2.3-7 has been extensively revised, and replaced by new Equations 2.3-7, 2.3-8 & 2.3-9. The equation provided in Section 2.3.5.2 is no longer similar to the equation, as revised.

Change Request Number : SA-92-469.10
Commitment Register Number :
Related SER : 2.3.4 SSER :
SER/SSER Impact : No

2.3-54

4

Adds listing for Draft Reg. Guide 1.XXX, "Atmospheric Dispersion Models for Potential Accident Consequence Assessments at Nuclear Power Plants," to the references given at the end of FSAR Section 2.3.

Addition :
Relocation of a reference given in Q&R 372.17 response to FSAR text in preparation for the USAR.
Change Request Number : SA-92-469.11
Commitment Register Number :

FSAR Page (as amended)	Group Description
	Related SER : 2.3.4 SSER : SER/SSER Impact : No
Table 2.3-29	4 Deletes Table 2.3-29, "Standard SAR Meteorological Analyses of Onsite Data, Step-by-Step Description." Revision : Information in the Table was based on information contained within Section 2.3.4. Due to the relocation of information from Q&R 372.17 to Section 2.3.4, much of the information is no longer valid. That which remains valid is discussed in Section 2.3.4. Change Request Number : SA-92-469.12 Commitment Register Number : Related SER : 2.3.4 SSER : SER/SSER Impact : No
Table 2.3-30	4 Deletes Table 2.3-30, "Summary of the Worst, 5- and 50-Percentile Values of the Short Period Diffusion Estimates." Revision : Information in the Table was based on information contained with Section 2.3.4. Due to relocation of information from Q&R 372.17 to Section 2.3.4, table contents are no longer consistent with information presented in revised Section 2.3.4. Change Request Number : SA-92-469.13 Commitment Register Number : Related SER : 2.3.4 SSER : SER/SSER Impact : No
Table 2.3-31	4 Deletes Table 2.3-31, "Worst, 5- and 50-Percentile Values of the Short Period Diffusion Estimates at the LPZ - Zero Averages Included." Revision : Information in the Table was based on information contained within Section 2.3.4. Due to the relocation of information from Q&R 372.17 to Section 2.3.4, table contents are no longer consistent with information presented in revised Section 2.3.4. Change Request Number : SA-92-469.14 Commitment Register Number : Related SER : 2.3.4 SSER : SER/SSER Impact : No
Table 2.3-32	4 Deletes Table 2.3-32, "Worst, 5- and 50-Percentile Values of the Short Period Diffusion Estimates at the LPZ - Zero Averages Excluded." Revision : Information in the Table was based on information contained within Section 2.3.4. Due to the relocation of information from Q&R 372.17 to Section 2.3.4, table contents are no longer consistent with

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Group Description

information presented in revised Section 2.3.4.
 Change Request Number : SA-92-469.15
 Commitment Register Number :
 Related SER : 2.3.4 SSER :
 SER/SSER Impact : No

Table 2.3-36 4 Adds Table 2.3-36, "Highest, 5- and 50-Percentile Values of the Hourly Diffusion Estimates at the EAB."
 Addition :
 Relocation of a portion of Q&R 372.17 response to FSAR text in preparation for the USAR.
 Change Request Number : SA-92-469.16
 Commitment Register Number :
 Related SER : 2.3.4 SSER :
 SER/SSER Impact : No

Table 2.3-37 4 Adds Table 2.3-37, "5-Percentile Values of the Accident Period Diffusion Estimates at the LPZ."
 Addition :
 Relocation of a portion of Q&R 372.17 response to FSAR text in preparation for the USAR.
 Change Request Number : SA-92-469.17
 Commitment Register Number :
 Related SER : 2.3.4 SSER :
 SER/SSER Impact : No

Table 2.3-38 4 Adds Table 2.3-38, "50-Percentile Values of the Accident Period Diffusion Estimates at the LPZ."
 Addition :
 Relocation of a portion of Q&R 372.17 response to FSAR text in preparation for the USAR.
 Change Request Number : SA-92-469.18
 Commitment Register Number :
 Related SER : 2.3.4 SSER :
 SER/SSER Impact : No

Figure 2.3-14 4 Deletes Figure 2.3-14, "Dilution Factors, Short Term, 0 to 8 Hours."
 Q&R Incorporation :
 Information in the Figure was based on information contained within Section 2.3.4. Due to the relocation of information from Q&R 372.17 to Section 2.3.4, figure contents are no longer consistent with information presented in revised Section 2.3.4.
 Change Request Number : SA-92-469.19
 Commitment Register Number :
 Related SER : 2.3.4 SSER :
 SER/SSER Impact : No

Figure 2.3-15 4 Deletes Figure 2.3-15, "Dilution Factors, Short Term, 8 to 24 Hours."
 Q&R Incorporation :

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Information in the Figure was based on information contained within Section 2.3.4. Due to the relocation of information from Q&R 372.17 to Section 2.3.4, figure contents are no longer consistent with information presented in revised Section 2.3.4.
Change Request Number : SA-92-469.20
Commitment Register Number :
Related SER : 2.3.4 SSER :
SER/SSER Impact : No

Figure 2.3-16	4	Deletes Figure 2.3-16, "Dilution Factors, Short Term, 1 to 4 Days." Q&R Incorporation : Information in this Figure was based on information contained within Section 2.3.4. Due to the relocation of information from Q&R 372.17 to Section 2.3.4, figure contents are no longer consistent with information presented in revised Section 2.3.4. Change Request Number : SA-92-469.21 Commitment Register Number : Related SER : 2.3.4 SSER : SER/SSER Impact : No
Figure 2.3-17	4	Deletes Figure 2.3-17, "Dilution Factors, Short Term, 4 to 30 Days." Q&R Incorporation : Information in the Figure was based on information contained within Section 2.3.4. Due to the relocation of information from Q&R 372.17 to Section 2.3.4, figure contents are no longer consistent with information presented in revised Section 2.3.4. Change Request Number : SA-92-469.22 Commitment Register Number : Related SER : 2.3.4 SSER : SER/SSER Impact : No
3.6B-11	4	See Sheet No(s) :12 thru 20 Incorporates information from the responses to Q010.1 and Q010.20 into the FSAR text. Q&R Incorporation : This information is being relocated to the FSAR text as part of the process to convert the FSAR into an "updated FSAR" as required by 10CFR50.71(e). Change Request Number : SA-92-564. Commitment Register Number : Related SER : 3.6 SSER :22 3.6.2 SER/SSER Impact : No
3.6B-24	3	Deletes the word "certain" prior to "backwater valves of the floor drain system", and adds the following parenthetical statement: "Although, some backwater valves are credited to operate for the mitigation of postulated piping failures, a seismic

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(as amended)

Group Description

event is not assumed in the analysis of these failures."

Revision :

"Certain" is removed as a qualifier before "backwater valves", since none of the backwater valves are seismically qualified. Relocation of the sentence from the response to Q010.21 to FSAR text is performed in preparation for the USAR.

Change Request Number : SA-92-17.3

Commitment Register Number :

Related SER : 9.3.3 SSER :06 9.3.3

SER/SSER Impact : No

3.6B-60

4

See Sheet No(s) :61

Adds information concerning assumption that jets are not generated in break exclusion regions (superpipe areas).

Addition :

Relocation of a portion of Q140.1 response to FSAR text in preparation for the USAR.

Change Request Number : SA-92-358.4

Commitment Register Number : Y7-3333

Related SER : 3.6.2 SSER :22 3.11.6

SER/SSER Impact : No

3.6B-61

4

See Sheet No(s) :62, 63

Adds information on impact of MSLB on qualified equipment outside containment, e.g., discussion of mass and energy release data. Also, moves the third paragraph of Section 3.6B.2.5.2.1.D to a position between the first and the second paragraph of the same Section.

Addition :

Relocation of a portion of Q140.1 response to FSAR text in preparation for the USAR. Movement of the paragraph within Section 3.6B.2.5.2.1.D is an editorial enhancement; the first paragraph discusses an MSLB inside containment, the second discusses isolation of the penetration area from the rest of the Safeguards Building by the seal between the Building and the containment wall, and the remainder of the Section (including the information added) discusses an MSLB outside containment.

Change Request Number : SA-92 358.5

Commitment Register Number : Y7-3333/NL-2785

Related SER : 3.6.2 SSER :22 3.11.6

SER/SSER Impact : No

3.6B-85

4

Adds reference to WCAP-7907, LOFTRAN Code Description, to the list of references at the end of Section 3.6B.

Addition :

Relocation by reference of a portion of Q140.1

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Group Description

response to FSAR text in preparation for the USAR.
This reference also appears in the list of
references at the end of FSAR Section 5.2.

Change Request Number : SA-92-358.6

Commitment Register Number :

Related SER : 3.6.2 SSER :22 3.11.6

SER/SSER Impact : No

Table 3.6B-4

4

See Sheet No(s) :1 & 2

Adds Table 3.6B-4, Mass/Energy Releases: Full
Power - [One Square Foot] Main Steam Line Break.
Addition :

Relocation of Table 140.1-2 to FSAR text in
preparation for the USAR.

Change Request Number : SA-92-358.7

Commitment Register Number : NL-2783

Related SER : 3.6.2 SSER :22 3.11.6

SER/SSER Impact : No

Table 3.6B-5

4

See Sheet No(s) :1 through 5

Adds Table 3.6B-5, Equipment Affected by MSLB
Superheat Condition.

Addition :

Relocation of Table 140.1-1 to FSAR text in
preparation for the USAR.

Change Request Number : SA-92-358.8

Commitment Register Number : NL-2781

Related SER : 3.6.2 SSER :22 3.11.6

SER/SSER Impact : No

Table 3.6B-6

4

Adds new Table 3.6B-6.

Q&R Incorporation :

New Table 3.6B-6 incorporates information from
deleted Table 010.20-2. This Q&R information is
being relocated to the FSAR table as part of the
process to convert the FSAR into an "updated FSAR"
as required by 10CFR50.71(e).

Change Request Number : SA-92-564.

Commitment Register Number :

Related SER : 3.6 SSER :22 3.6.2

SER/SSER Impact : No

Table 3.6B-7

4

Adds new Table 3.6B-7.

Q&R Incorporation :

New Table 3.6B-7 incorporates information from
deleted Table 010.20-3. This Q&R information is
being relocated to the FSAR table as part of the
process to convert the FSAR into an "updated FSAR"
as required by 10CFR50.71(e).

Change Request Number : SA-92-564.

Commitment Register Number :

Related SER : 3.6 SSER :22 3.6.2

SER/SSER Impact : No

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(as amended)

Group Description

Table 3.6B-8	4	See Sheet No(s) :1 & 2 Adds new Table 3.6B-8. Q&R Incorporation : New Table 3.6B-8 incorporates information from deleted Table 010.20-4. This Q&R information is being relocated to the FSAR table as part of the process to convert the FSAR into an "updated FSAR" as required by 10CFR50.71(e). Change Request Number : SA-92-564. Commitment Register Number : Related SER : 3.6 SSER :22 3.6.2 SER/SSER Impact : No
Figure 3.6B-207	4	See Sheet No(s) :1 thru 4 Adds new Figure 3.6B-207. Q&R Incorporation : New Figure 3.6B-207 incorporates information from deleted Figure 010.20-2. This Q&R information is being relocated to the FSAR figure as part of the process to convert the FSAR into an "updated FSAR" as required by 10CFR50.71(e). Change Request Number : SA-92-564. Commitment Register Number : Related SER : 3.6 SSER :22 3.6.2 SER/SSER Impact : No
Figure 3.6B-208	4	See Sheet No(s) :1 thru 3 Adds new Figure 3.6B-208. Q&R Incorporation : New Figure 3.6B-208 incorporates information from deleted Figure 010.20-3. This Q&R information is being relocated to the FSAR figure as part of the process to convert the FSAR into an "updated FSAR" as required by 10CFR50.71(e). Change Request Number : SA-92-564. Commitment Register Number : Related SER : 3.6 SSER :22 3.6.2 SER/SSER Impact : No
Figure 3.6B-31-1	3	Adds Note 1 to Figure 3.6B-31-1 (Prob.1-12A) to indicate the valve internals to check valves 1AF-057 and 1AF-069 were removed. Revision : These valves are not required to perform a closed safety or non-safety function. Removal of the valve internals does not adversely affect performance, function or flow characteristics of the Auxiliary Feedwater System. Change Request Number : SA-93-92.3 Commitment Register Number : Related SER : 9.2 SSER :22 9.2 SER/SSER Impact : No

FSAR Page (as amended)	Group Description
3.8-37	<p>4 See Sheet No(s) :38 Adds information on the inadvertent omission of some of the shear reinforcement for the Unit 2 containment wall and the structural integrity of the Unit 2 containment building. Addition : Relocation of a portion of Q130.35 response to FSAR text in preparation for the USAR. Change Request Number : SA-92-352.2 Commitment Register Number : Related SER : 3.8.1 SSER :22 3.8.1 SER/SSER Impact : No</p>
3.8-109	<p>4 Adds information on the design of masonry walls within seismic Category I structures, and specifically addresses those walls within the Electrical and Control Building. Addition : Relocation of a portion of Q130.36 response to FSAR text in preparation for the USAR. Change Request Number : SA-92-353.2 Commitment Register Number : Y6-7619 Related SER : 3.8.3 SSER :24 APP-C.7 SER/SSER Impact : No</p>
3.8-109	<p>4 Adds "/Electrical and Control Building" to the physical description of the Auxiliary Building. Clarification : The Electrical and Control Building is included in the description of the Auxiliary Building provided in Section 3.8.4.1.2. By revising the title of this section and one listing in the text to read "Auxiliary Building/Electrical and Control Building" it is clear that this FSAR section addresses both buildings. Information which is being incorporated from Q&R 130.36 as well as information in Table 17A-1, Sheet 38, discusses the Electrical and Control Building as a separate entity, and Table 17A-1 specifically refers to Section 3.8.4 for further information on this building. Change Request Number : SA-92-353.3 Commitment Register Number : Related SER : 3.8.4 SSER :24 APP-C.7 SER/SSER Impact : No</p>
3.8-110	<p>4 Adds information on the one masonry block wall located within the Service Water Intake Structure. Addition : Relocation of a portion of Q130.36 response to FSAR text in preparation for the USAR. Change Request Number : SA-92-353.4 Commitment Register Number : Y6-7619</p>

Adds new Figure 3.8-25, Unit 2 Reinforced Concrete
Reactor Pressure Vessel Supports.
Q&R Incorporation :
Relocation of Figure Q130.31-2 to FSAR text in
preparation for the USAR.
Change Request Number : SA-92-349.9

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 (as amended)

Group Description

		Commitment Register Number :
		Related SER : 3.8.4 SSER :22 3.8.4
		SER/SSER Impact : No
3.9N-42	4	Adds information on the STRUDL computer program in the modeling/analysis of the steam generator upper lateral supports.
		Addition :
		Relocation of a portion of Q112.19 response to FSAR text in preparation for the USAR.
		Change Request Number : SA-92-299.2
		Commitment Register Number :
		Related SER : 3.9.1 SSER :23 3.9.1
		SER/SSER Impact : No
3.9N-54	4	References WCAPs, which support the methodology used for combining the effects of the SSE and LOCA for faulted condition evaluations.
		Addition :
		Relocation of a portion of Q112.7 response to FSAR text in preparation for the USAR.
		Change Request Number : SA-92-293.3
		Commitment Register Number :
		Related SER : 3.9 SSER :
		SER/SSER Impact : No
3.9N-76	4	Provides the method of combining loads for each plant operating condition.
		Addition :
		Relocation of a portion of Q112.17 response to FSAR text in preparation for the USAR.
		Change Request Number : SA-92-294.6
		Commitment Register Number :
		Related SER : 3.9.3.1 SSER :23 3.9.3
		SER/SSER Impact : No
3.9N-76	4	Revises FSAR references for provision and discussion of design loading conditions for core support structures from 4.2.2.3 to 4.2.2 and from 4.2.2.4 to 4.2.3, respectively.
		Editorial :
		FSAR Section 4.2.2.4 does not currently exist, and Section 4.2.2.3 does not represent the same material which was referenced. Section 4.2.2 currently contains the reactor design description and Section 4.2.3 contains the reactor design evaluation.
		Change Request Number : SA-92-294.7
		Commitment Register Number :
		Related SER : 3.9.3 SSER : 4.2
		SER/SSER Impact : No
3.9N-77	4	Changes reference from FSAR Sections 4.2.2.4 and 4.2.2.5 to Section 4.2.1.

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	Editorial : Neither FSAR Section 4.2.2.4 or 4.2.2.5 currently exists. Stress limits and deformation criteria are currently discussed in Section 4.2.1. Change Request Number : SA-92-294.8 Commitment Register Number : Related SER : 3.9.3 SSER : 4.2.1 SER/SSER Impact : No
3.9N-78	4 Adds information concerning maximum calculated support stresses for each of the loading combinations and their limitation by stress criteria, and assurance that structural discontinuities in piping, tanks & vessels will retain their specified geometric configuration during emergency and faulted condition events. Addition : Relocation of a portion of the responses of Q112.18 & Q112.21 to FSAR text in preparation for the USAR. Change Request Number : SA-92-294.9 Commitment Register Number : Related SER : 3.9.3 SSER :23 3.9.3 SER/SSER Impact : No
3.9N-78	4 Adds the following sentence after reference to Table 3.9N-9: "As can be seen on this Table, CPSES has no Class 1 active pumps." Addition : Relocation of a portion of Q112.18 response to FSAR text in preparation for the USAR. Change Request Number : SA-92-294.10 Commitment Register Number : Related SER : 3.9.3.2 SSER :22 3.9.3.2 SER/SSER Impact : No
3.9N-79	4 Adds information concerning qualification of active pumps for loads which are at least as severe as the maximum loads which are expected to occur as a result of faulted condition loadings. Addition : Relocation of a portion of Q112.21 response to FSAR text in preparation for the USAR. Change Request Number : SA-92-294.11 Commitment Register Number : Related SER : 3.9.3.2 SSER :22 3.9.3.2 SER/SSER Impact : No
3.9N-80	4 Adds information on the application of stress limits to active pumps, and assurance that the pumps will not experience permanent deformation or otherwise be damaged during the faulted condition event. Addition : Relocation of a portion of Q112.21 response to FSAR

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text in preparation for the USAR.
Change Request Number : SA-92-294.12
Commitment Register Number :
Related SER : 3.9.3.2 SSER :22 3.9.3.2
SER/SSER Impact : No

- 3.9N-83 4 See Sheet No(s) :84
Adds information on stress limits imposed on non-ASME Code extended structures of active valves, and analyses that verify active valves will perform their safety function when subjected to the most severe loads which would be imposed by an SSE coincident with a maximum faulted plant condition nozzle loads.
Addition :
Relocation of a portion of Q112.21 response to FSAR text in preparation for the USAR.
Change Request Number : SA-92-294.13
Commitment Register Number :
Related SER : 3.9.3.2 SSER :22 3.9.3.2
SER/SSER Impact : No
- 3.9N-84 4 Adds the following sentence to a discussion on the mounting and installation of active valves: "In general, active valves are supported by the pipe attached to the valve."
Addition :
Relocation of a portion of Q112.18 response to FSAR text in preparation for the USAR.
Change Request Number : SA-92-294.14
Commitment Register Number :
Related SER : 3.9.3.2 SSER :22 3.9.3.2
SER/SSER Impact : No
- 3.9N-89 4 Adds information on use of Class 2 & 3 standard component supports and design compliance with ASME B&PV Code, Section III, Subsection NF.
Addition :
Relocation of Q112.20 (NSSS) response to FSAR text in preparation for the USAR.
Change Request Number : SA-92-300.2
Commitment Register Number :
Related SER : 3.9.3 SSER :23 3.9.3
SER/SSER Impact : No
- 3.9N-120 4 See Sheet No(s) :121
Adds listings for WCAP-9279 and WCAP-9283 to the references given at the end of FSAR Section 3.9N.
Addition :
Relocation of references given in the response to Q112.7 to FSAR text in preparation for the USAR.
Change Request Number : SA-92-293.4
Commitment Register Number :

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	Related SER : 3.9 SSER : SER/SSER Impact : No
Table 3.9N-15	4 See Sheet No(s) :Sheet 2 Clarifies information given for snubbers used with steam generator upper lateral supports, noting a rating of 450 kips for normal and OBE seismic operation, and 1000 kips for the faulted condition. Clarification : Relocation of a portion of Q112.19 response to FSAR text in preparation for the USAR. Change Request Number : SA-92-299.3 Commitment Register Number : Related SER : 3.9.1 SSER :23 3.9.1 SER/SSER Impact : No
3.9B-31	4 Adds information on the design of supports for Class 2 and 3 active pumps and valves, inclusion of supports in component analysis to ensure that deformations do not preclude operability, and FSAR reference to operability requirements. Addition : Relocation of a portion of Q112.18 response to FSAR text in preparation for the USAR. Change Request Number : SA-92-294.15 Commitment Register Number : Y6-7616 Related SER : 3.9.3.1 SSER :23 3.9.3 SER/SSER Impact : No
3.9B-43	4 See Sheet No(s) :46 Moves location of an existing paragraph, re: nuclear piping (ASME Class 2 and 3) component supports, within FSAR Section 3.9B.3.4.2. Editorial : Movement of the paragraph within FSAR Section 3.9B.3.4.2 is purely editorial, and is performed to place the paragraph in its more appropriate location. Change Request Number : SA-92-299.5 Commitment Register Number : Related SER : 3.9.3 SSER : SER/SSER Impact : No
3.9B-45	4 See Sheet No(s) :46 Adds information on the design and testing with regard to mechanical snubbers utilized in the Containment, Safeguards, Auxiliary and Fuel Buildings. Addition : Relocation of a portion of Q112.19 response to FSAR text in preparation for the USAR. Change Request Number : SA-92-299.6 Commitment Register Number :

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Group Description

Related SER : 3.9.3 SSER :23 3.9.3
 SER/SSER Impact : No

Table 3.9B-10	4	<p>See Sheet No(s) :1, 2</p> <p>The main steam isolation valve (MSIV) bypass valves (4 total) are added to Table 3.9B-10.</p> <p>Update :</p> <p>The MSIV bypass valves were erroneously deleted from Table 3.9B-10 in FSAR Amendment 66 (TXX-6126 dated December 8, 1986). Credit for active function of these manual valves to mitigate accidents is taken in licensing basis documents (as identified by TXX-4479 dated May 17, 1985 and TXX-4510 dated July 10, 1985). This change is consistent with Table 2.1.1 of the Technical Requirements Manual, Table 9 of the Inservice Testing Plan for Pumps and Valves, Section 10.3.2.4 of the FSAR, and Table 6.2.4-2 of the FSAR.</p> <p>Change Request Number : SA-93-46.1</p> <p>Commitment Register Number :</p> <p>Related SER : 10.3.1 SSER :22 10.3.1</p> <p>SER/SSER Impact : No</p>
Table 3.9B-10	3	<p>See Sheet No(s) :14</p> <p>Deletes check valves 1AF-045, 1AF-057 and 1AF-069 from Table 3.9B-10, Sheet 14 to show these valves are no longer active.</p> <p>Revision :</p> <p>The valve internals of these valves were removed. This change does not adversely affect performance, function or flow characteristics of the Auxiliary Feedwater System.</p> <p>Change Request Number : SA-93-92.1</p> <p>Commitment Register Number :</p> <p>Related SER : 9.2 SSER :22 9.2</p> <p>SER/SSER Impact : No</p>
Table 3.9B-10	3	<p>See Sheet No(s) :21</p> <p>Change Table 3.9B-10, sheet 21 to remove Unit 1 valves 1SW-0084 and 1SW-0085.</p> <p>Revision :</p> <p>These valves are no longer active and their internals have been removed. Their function was to prevent backflow when valve 1SW-0077 is open and ensure isolation of water injection to the idle SSW pump bearings. Since 1SW-0077 is to be maintained as a locked close valve, 1SW-0084 and 1SW-0085 are no longer needed.</p> <p>Change Request Number : SA-93-90.1</p> <p>Commitment Register Number :</p> <p>Related SER : 9.2 SSER :22 9.2</p> <p>SER/SSER Impact : No</p>
Table 3.9B-10	3	<p>See Sheet No(s) :21 & 30</p>

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Group Description

Revise Table 3.9B-10, Sheet 21 to show valves SW-016 and SW-017 to read as Unit 2 valves "2SW-016" and "2SW-017".

Revision :

Valve internals of check valves 1SW-016 and 1SW-017 were removed and the valves are no longer active. There are no operating scenarios under which these valves are required to close. Removal of the valve internals will not affect system operation.

Change Request Number : SA-93-91.1

Commitment Register Number :

Related SER : 9.2 SSER :22 9.2

SER/SSER Impact : No

Table 3.9B-11

4

Adds new Table 3.9B-11, Location of Snubbers in the Containment, Safeguards, Auxiliary & Fuel Buildings.
 Addition :

Relocation of a portion of Q112.19 response to FSAR text in preparation for the USAR.

Change Request Number : SA-92-299.7

Commitment Register Number :

Related SER : 3.9.3 SSER :23 3.9.3

SER/SSER Impact : No

Table 3.9B-12

4

Adds new Table 3.9B-12, Rated Load of Mechanical Snubbers.
 Addition :

Relocation of a portion of Q112.19 response to FSAR text in preparation for the USAR.

Change Request Number : SA-92-299.8

Commitment Register Number :

Related SER : 3.9.3 SSER :23 3.9.3

SER/SSER Impact : No

3.10N-1

4

Adds the phrase "and the qualification program plans and procedures described in Reference [2]" to the following sentence: Westinghouse will meet this commitment employing the methodology described in Reference [1].
 Addition :

Relocation of a portion of Q112.15 response to FSAR text in preparation for the USAR.

Change Request Number : SA-92-296.3

Commitment Register Number : X1-0655

Related SER : 3.10 SSER :24 3.10

SER/SSER Impact : No

3.10N-7

4

Updates References 1 and 2 to reflect the versions that were accepted by the NRC.
 Update :

Updated information provided via telecon with R. Owoc (Westinghouse) on February 9, 1994.

Change Request Number : SA-92-296.4

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		Commitment Register Number :
		Related SER : 3.10 SSER :24 3.10
		SER/SSER Impact : No
3.10B-7	4	Adds information on the configuration of the cable tray and support system.
		Addition :
		Relocation of a portion of Q130.39 response to FSAR text in preparation for the USAR.
		Change Request Number : SA-92-356.2
		Commitment Register Number :
		Related SER : 3.10 SSER :24 3.10
		SER/SSER Impact : No
3.10B-7	4	Revises "cable tray support systems" to read: "cable tray/support systems" within the discussion of related damping values, and adds "consistent with Regulatory Guide 1.61 for bolted steel structures" to the same sentence.
		Revision :
		Relocation of a portion of Q130.39 response to FSAR text in preparation for the USAR.
		Change Request Number : SA-92-356.3
		Commitment Register Number :
		Related SER : 3.10 SSER :24 3.10
		SER/SSER Impact : No
3.10B-8	4	Adds additional information on the construction and composition of the cable tray supports.
		Addition :
		Relocation of a portion of Q130.39 response to FSAR text in preparation for the USAR.
		Change Request Number : SA-92-356.4
		Commitment Register Number :
		Related SER : 3.10 SSER :24 3.10
		SER/SSEP. Impact : No
3.10B-8	4	See Sheet No(s) :9
		Adds information on factor of safety on expansion anchors used for cable tray supports with a safety factor of less than four, cable tray support design, and the yield strength of the materials used in the supports under SSE loading combinations.
		Addition :
		Relocation of portions of Q130.37 & Q130.38 responses to FSAR text in preparation for the USAR.
		Change Request Number : SA-92-354.3
		Commitment Register Number :
		Related SER : 3.10 SSER :24 3.10
		SER/SSER Impact : No
3.10B-9	4	Adds listings for ACI 349 & IE Information Notice No. 79-14 to the end of Section 3.10B, thereby

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creating a new list of references for this Section.

Addition :

Relocation of references given in Q130.37 response to FSAR text in preparation for the USAR.

Change Request Number : SA-92-354.4

Commitment Register Number :

Related SER : 3.10 SSER :24 3.10

SER/SSER Impact : No

3.11B-4

4

See Sheet No(s) :5

Adds information on the identification and evaluation of safety & non-safety-related electrical equipment, I&C circuits, and components located inside containment below elevation 816'-10", which may become submerged as a result of a LOCA.

Addition :

Relocation of a portion of Q040.1 response to FSAR text in preparation for the USAR.

Change Request Number : SA-92-135.4

Commitment Register Number : Y8-1168

Related SER : 3.11 SSER :06 3.11.3

SER/SSER Impact : No

3.11B-9

4

See Sheet No(s) :10

Adds statement noting that temperature profiles used for environmental qualification are included in the applicable EEQSF, and that for containment electrical penetration assemblies, electric cables and valves, the peak temperature was maintained for a period of well over 10 minutes.

Addition :

Relocation of a portion of Q022.2 response to FSAR text in preparation for the USAR.

Change Request Number : SA-91-152.2

Commitment Register Number :

Related SER : 3.11 SSER :22 3.11

SER/SSER Impact : No

4.2-64

4

Adds description of the post-irradiation fuel surveillance program for both units.

Addition :

Relocation of a portion of Q&R 231.6 response to FSAR text in preparation for the USAR.

Change Request Number : SA-92-230.2

Commitment Register Number : RE-0230-001/002

Related SER : 4.2.1 SSER :26 4.2.1

SER/SSER Impact : No

5.1-5

4

Adds information on ways in which postulated flow reductions are monitored.

Addition :

Relocation of a portion of Q221.4 response to FSAR text in preparation for the USAR.

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		Change Request Number : SA-92-215.2
		Commitment Register Number : OP-0316
		Related SER : 5.1 SSER :
		SER/SSER Impact : No
5.2-7	4	Adds information on testing of the overpressure protection system.
		Addition :
		Relocation of a portion of Q212.16 response to FSAR text in preparation for the USAR.
		Change Request Number : SA-92-375.2
		Commitment Register Number : IC-0086-001/002/003
		Related SER : 5.2.2 SSER :25 5.2.2
		SER/SSER Impact : No
5.2-10	4	Adds information on the probability of a loss of a complete DC bus concurrent with a low temperature overpressure event concurrent with a PORV failure, as well as the means of mitigation.
		Addition :
		Relocation of the response to Q212.137(a) to FSAR text in preparation for the USAR.
		Change Request Number : SA-92-204.2
		Commitment Register Number :
		Related SER : 5.2.2 SSER :24 5.2.2
		SER/SSER Impact : No
5.2-10a	4	Adds information on the design and analysis of the PORVs and their operators in the event of an OBE.
		Addition :
		Relocation of the response to Q212.137(b) to FSAR text in preparation for the USAR.
		Change Request Number : SA-92-204.3
		Commitment Register Number : X2-0085
		Related SER : 5.2.2 SSER :24 5.2.2
		SER/SSER Impact : No
5.2-13	4	Adds reference within text to Section 7.3.2.2.6 for a discussion of block features associated with pressurizer and steam line safety injection signals.
		Editorial :
		Reference within text to information being relocated from Q212.63 response.
		Change Request Number : SA-92-18.2
		Commitment Register Number :
		Related SER : 5.4.3 SSER :
		SER/SSER Impact : No
5.2-31	4	Moves existing sentence discussing the Inservice Inspection Program up to a more appropriate location within FSAR Section 5.2.4. Updates status of preservice inspection program by replacing "will be" with "were". And, adds a sentence referencing the

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Preservice Inspection Plan for both units as a source for details of the preservice inspection, including the relief requests.

Addition :

The movement of the sentence within FSAR Section 5.2.4 is an editorial enhancement. Editorial update to verb tense to reflect completion of the preservice inspection program. Reference added noting where the information promised to the NRC in the responses to Q121.12 & Q121.13 may be found.

Change Request Number : SA-92-310.3

Commitment Register Number :

Related SER : 5.2.4 SSER :

SER/SSER Impact : No

5.2-50

4

See Sheet No(s) :51

Adds information on the potential for, and detection of, leaks from the RCS to the RHRS, ECCS and CVCS.

Addition :

Relocation of Q212.3 response to FSAR text in preparation for the USAR.

Change Request Number : SA-92-366.2

Commitment Register Number : RE-0265

Related SER : 5.2.5 SSER :25 5.2.5

SER/SSER Impact : No

5.2-53

4

Adds the following sentence to a discussion of containment sumps: "By design, flow to the sumps is unimpeded."

Addition :

Relocation of a portion of Q212.95 response to FSAR text in preparation for the USAR.

Change Request Number : SA-92-367.8

Commitment Register Number :

Related SER : 5.2.5 SSER :25 5.2.5

SER/SSER Impact : No

5.3-6

4

Adds information on the fracture toughness properties of the reactor vessel, steam generators, pressurizers, reactor coolant pumps and valves, and their compliance with applicable codes and requirements.

Addition :

Relocation of a portion of Q123.3 response to FSAR text in preparation for the USAR.

Change Request Number : SA-92-324.28

Commitment Register Number :

Related SER : 5.3.1 SSER :01 5.3.1

SER/SSER Impact : No

5.3-7

4

Adds figure and table references for reactor vessel beltline weld and base metal charpy plots and tabular information, reactor vessel non-beltline

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weld metal toughness properties, and steam generator and pressurizer base & weld metal fracture toughness data.

Addition :

Relocation of a portion of Q123.3 response to FSAR text in preparation for the USAR.

Change Request Number : SA-92-324.29

Commitment Register Number :

Related SER : 5.3.1 SSER :01 5.3.1

SER/SSER Impact : No

Table 5.3-8A

4

Adds new FSAR Table 5.3-8A, Unit 1 Beltline Region Weld Metal Charpy V-Notch Impact Data.

Addition :

Relocation of Q&R Table 123.3-1 to FSAR text in preparation for the USAR.

Change Request Number : SA-92-324.30

Commitment Register Number :

Related SER : 5.3.1 SSER :01 5.3.1

SER/SSER Impact : No

Table 5.3-8B

4

Adds new FSAR Table 5.3-8B, Unit 2 Beltline Region Weld Metal Charpy V-Notch Impact Data.

Addition :

Relocation of Q&R Table 123.3-16 to FSAR text in preparation for the USAR.

Change Request Number : SA-92-324.31

Commitment Register Number :

Related SER : 5.3.1 SSER :01 5.3.1

SER/SSER Impact : No

Table 5.3-9A

4

Adds new FSAR Table 5.3-9A, Unit 1 Charpy V-Notch Impact Data for Reactor Vessel Intermediate Shell Plate Code R-1107-1.

Addition :

Relocation of Q&R Table 123.3-2 to FSAR text in preparation for the USAR.

Change Request Number : SA-92-324.32

Commitment Register Number :

Related SER : 5.3.1 SSER :01 5.3.1

SER/SSER Impact : No

Table 5.3-9B

4

Adds new FSAR Table 5.3-9B, Unit 2 Charpy V-Notch Impact Data for Reactor Vessel Intermediate Shell Plate Code R-3807-1.

Addition :

Relocation of Q&R Table 123.3-10 to FSAR text in preparation for the USAR.

Change Request Number : SA-92-324.33

Commitment Register Number :

Related SER : 5.3.1 SSER :01 5.3.1

SER/SSER Impact : No

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Table 5.3-10A	<p>4 Adds new FSAR Table 5.3-10A, Unit 1 Charpy V-Notch Impact Data for Reactor Vessel Intermediate Shell Plate Code R-1107-2.</p> <p>Addition : Relocation of Q&R Table 123.3-3 to FSAR text in preparation for the USAR.</p> <p>Change Request Number : SA-92-324.34 Commitment Register Number : Related SER : 5.3.1 SSER :01 5.3.1 SER/SSER Impact : No</p>
Table 5.3-10B	<p>4 Adds new FSAR Table 5.3-10B, Unit 2 Charpy V-Notch Impact Data for Reactor Vessel Intermediate Shell Plate Code R-3807-2.</p> <p>Addition : Relocation of Q&R Table 123.3-11 to FSAR text in preparation for the USAR.</p> <p>Change Request Number : SA-92-324.35 Commitment Register Number : Related SER : 5.3.1 SSER :01 5.3.1 SER/SSER Impact : No</p>
Table 5.3-11A	<p>4 Adds new FSAR Table 5.3-11A, Unit 1 Charpy V-Notch Impact Data for Reactor Vessel Intermediate Shell Plate Code R-1107-3.</p> <p>Addition : Relocation of Q&R Table 123.3-4 to FSAR text in preparation for the USAR.</p> <p>Change Request Number : SA-92-324.36 Commitment Register Number : Related SER : 5.3.1 SSER :01 5.3.1 SER/SSER Impact : No</p>
Table 5.3-11B	<p>4 Adds new FSAR Table 5.3-11B, Unit 2 Charpy V-Notch Impact Data for Reactor Vessel Intermediate Shell Plate Code R-3807-3.</p> <p>Addition : Relocation of Q&R Table 123.3-12 to FSAR text in preparation for the USAR.</p> <p>Change Request Number : SA-92-324.37 Commitment Register Number : Related SER : 5.3.1 SSER :01 5.3.1 SER/SSER Impact : No</p>
Table 5.3-12A	<p>4 Adds new FSAR Table 5.3-12A, Unit 1 Charpy V-Notch Impact Data for Reactor Vessel Lower Shell Plate Code R-1108-1.</p> <p>Addition : Relocation of Q&R Table 123.3-5 to FSAR text in preparation for the USAR.</p> <p>Change Request Number : SA-92-324.38 Commitment Register Number : Related SER : 5.3.1 SSER :01 5.3.1</p>

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	SER/SSER Impact	: No
Table 5.3-12B	4	<p>Adds new FSAR Table 5.3-12B, Unit 2 Charpy V-Notch Impact Data for Reactor Vessel Lower Shell Plate Code R-3816-1.</p> <p>Addition :</p> <p>Relocation of Q&R Table 123.3-13 to FSAR text in preparation for the USAR.</p> <p>Change Request Number : SA-92-324.39</p> <p>Commitment Register Number :</p> <p>Related SER : 5.3.1 SSER :01 5.3.1</p> <p>SER/SSER Impact : No</p>
Table 5.3-13A	4	<p>Adds new FSAR Table 5.3-13A, Unit 1 Charpy V-Notch Impact Data for Reactor Vessel Lower Shell Plate Code R-1108-2.</p> <p>Addition :</p> <p>Relocation of Q&R Table 123.3-6 to FSAR text in preparation for the USAR.</p> <p>Change Request Number : SA-92-324.40</p> <p>Commitment Register Number :</p> <p>Related SER : 5.3.1 SSER :01 5.3.1</p> <p>SER/SSER Impact : No</p>
Table 5.3-13B	4	<p>Adds new FSAR Table 5.3-13B, Unit 2 Charpy V-Notch Impact Data for Reactor Vessel Lower Shell Plate Code R-3816-2.</p> <p>Addition :</p> <p>Relocation of Q&R Table 123.3-14 to FSAR text in preparation for the USAR.</p> <p>Change Request Number : SA-92-324.41</p> <p>Commitment Register Number :</p> <p>Related SER : 5.3.1 SSER :01 5.3.1</p> <p>SER/SSER Impact : No</p>
Table 5.3-14A	4	<p>Adds new FSAR Table 5.3-14A, Unit 1 Charpy V-Notch Impact Data for Reactor Vessel Lower Shell Plate Code R-1108-3.</p> <p>Addition :</p> <p>Relocation of Q&R Table 123.3-7 to FSAR text in preparation for the USAR.</p> <p>Change Request Number : SA-92-324.42</p> <p>Commitment Register Number :</p> <p>Related SER : 5.3.1 SSER :01 5.3.1</p> <p>SER/SSER Impact : No</p>
Table 5.3-14B	4	<p>Adds new FSAR Table 5.3-14B, Unit 2 Charpy V-Notch Impact Data for Reactor Vessel Lower Shell Plate Code R-3816-3.</p> <p>Addition :</p> <p>Relocation of Q&R Table 123.3-15 to FSAR text in preparation for the USAR.</p> <p>Change Request Number : SA-92-324.43</p>

FSAR Page (as amended)		Group Description
		Commitment Register Number : Related SER : 5.3.1 SSER :01 5.3.1 SER/SSER Impact : No
Table 5.3-15A	4	Adds new FSAR Table 5.3-15A, Unit 1 Reactor Vessel Non-Beltline Weld Metal Toughness Properties. Addition : Relocation of Q&R Table 123.3-8 to FSAR text in preparation for the USAR. Change Request Number : SA-92-324.44 Commitment Register Number : Related SER : 5.3.1 SSER :01 5.3.1 SER/SSER Impact : No
Table 5.3-15B	4	Adds new FSAR Table 5.3-15B, Unit 2 Reactor Vessel Non-Beltline Weld Metal Toughness Properties. Addition : Relocation of Q&R Table 123.3-9 to FSAR text in preparation for the USAR. Change Request Number : SA-92-324.45 Commitment Register Number : Related SER : 5.3.1 SSER :01 5.3.1 SER/SSER Impact : No
Table 5.3-16A	4	Adds new FSAR Table 5.3-16A, Unit 1 Steam Generator and Pressurizer Base Metal Fracture Toughness Data. Addition : Relocation of Q&R Table 123.3-17 to FSAR text in preparation for the USAR. Change Request Number : SA-92-324.46 Commitment Register Number : Related SER : 5.3.1 SSER :01 5.3.1 SER/SSER Impact : No
Table 5.3-16B	4	Adds new FSAR Table 5.3-16B, Unit 2 Steam Generator and Pressurizer Base Metal Fracture Toughness Data. Addition : Relocation of Q&R Table 123.3-19 to FSAR text in preparation for the USAR. Change Request Number : SA-92-324.47 Commitment Register Number : Related SER : 5.3.1 SSER :01 5.3.1 SER/SSER Impact : No
Table 5.3-17A	4	Adds new FSAR Table 5.3-17A, Unit 1 Steam Generator and Pressurizer Weld Metal Fracture Toughness Data. Addition : Relocation of Q&R Table 123.3-18 to FSAR text in preparation for the USAR. Change Request Number : SA-92-324.48 Commitment Register Number : Related SER : 5.3.1 SSER :01 5.3.1 SER/SSER Impact : No

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Table 5.3-17B	4	<p>See Sheet No(s) : Sheets 1 & 2</p> <p>Adds new FSAR Table 5.3-17B, Unit 2 Steam Generator and Pressurizer Weld Metal Fracture Toughness Data.</p> <p>Addition :</p> <p>Relocation of Q&R Table 123.3-20 to FSAR text in preparation for the USAR.</p> <p>Change Request Number : SA-92-324.49</p> <p>Commitment Register Number :</p> <p>Related SER : 5.3.1 SSER : 01 5.3.1</p> <p>SER/SSER Impact : No</p>
Figure 5.3-2A	4	<p>Adds new FSAR Figure 5.3-2A, Unit 1 Beltline Region Weld Metal Charpy V-Notch Impact Data.</p> <p>Q&R Incorporation :</p> <p>Relocation of Q&R Figure 123.3-1 to FSAR text in preparation for the USAR.</p> <p>Change Request Number : SA-92-324.50</p> <p>Commitment Register Number :</p> <p>Related SER : 5.3.1 SSER : 01 5.3.1</p> <p>SER/SSER Impact : No</p>
Figure 5.3-2B	4	<p>Adds new FSAR Figure 5.3-2B, Unit 2 Beltline Region Weld Metal Charpy V-Notch Impact Data.</p> <p>Q&R Incorporation :</p> <p>Relocation of Q&R Figure 123.3-4 to FSAR text in preparation for the USAR.</p> <p>Change Request Number : SA-92-324.51</p> <p>Commitment Register Number :</p> <p>Related SER : 5.3.1 SSER : 01 5.3.1</p> <p>SER/SSER Impact : No</p>
Figure 5.3-3A	4	<p>Adds new FSAR Figure 5.3-3A, Unit 1 Charpy V-Notch Impact Data for Intermediate Shell Plates.</p> <p>Q&R Incorporation :</p> <p>Relocation of Q&R Figure 123.3-2 to FSAR text in preparation for the USAR.</p> <p>Change Request Number : SA-92-324.52</p> <p>Commitment Register Number :</p> <p>Related SER : 5.3.1 SSER : 01 5.3.1</p> <p>SER/SSER Impact : No</p>
Figure 5.3-3B	4	<p>Adds new FSAR Figure 5.3-3B, Unit 2 Charpy V-Notch Impact Data for Intermediate Shell Plates.</p> <p>Q&R Incorporation :</p> <p>Relocation of Q&R Figure 123.3-5 to FSAR text in preparation for the USAR.</p> <p>Change Request Number : SA-92-324.53</p> <p>Commitment Register Number :</p> <p>Related SER : 5.3.1 SSER : 01 5.3.1</p> <p>SER/SSER Impact : No</p>
Figure 5.3-4A	4	<p>Adds new FSAR Figure 5.3-4A, Unit 1 Charpy V-Notch</p>

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Group Description

		Impact Data for Lower Shell Plates. Q&R Incorporation : Relocation of Q&R Figure 123.3-3 to FSAR text in preparation for the USAR. Change Request Number : SA-92-324.54 Commitment Register Number : Related SER : 5.3.1 SSER :01 5.3.1 SER/SSER Impact : No
Figure 5.3-4B	4	Adds new FSAR Figure 5.3-4B, Unit 2 Charpy V-Notch Impact Data for Lower Shell Plates. Q&R Incorporation : Relocation of Q&R Figure 123.3-6 to FSAR text in preparation for the USAR. Change Request Number : SA-92-324.55 Commitment Register Number : Related SER : 5.3.1 SSER :01 5.3.1 SER/SSER Impact : No
5.4-5	4	See Sheet No(s) :6 Adds a description, including the resulting consequences, of the Reactor Coolant Pumps being started at lower primary system pressure. Addition : Relocation of a portion of Q212.82 response to FSAR text in preparation for the USAR. Change Request Number : SA-92-50.2 Commitment Register Number : Related SER : 5.4.1 SSER : SER/SSER Impact : No
5.4-6	4	Adds the following sentence: Consequences of the loss of component cooling water flow to RCS pumps are discussed in Section 9.2.2. Editorial : Editorial enhancement, connecting two FSAR Sections containing information on reactor coolant pumps. Change Request Number : SA-92-386.2 Commitment Register Number : Related SER : 5.4.1 SSER : SER/SSER Impact : No
5.4-15	4	Adds additional reference within text to discussion of fracture toughness of materials. Editorial : Reference added for completeness and as an editorial enhancement. Change Request Number : SA-92-324.56 Commitment Register Number : Related SER : 5.3.1 SSER :01 5.3.1 SER/SSER Impact : No
5.4-55	4	Adds a reference to a more detailed description of

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(as amended)

Group Description

the RHR pump mini-flow valve interlock within FSAR text, and a reference to Figure 5.4-20, RHR Pump Mini-Flow Valve Interlock.

Editorial :

This is an editorial connection between the text in FSAR Section 5.4.7.2.1, and information contained in FSAR Section 5.4.7.2.4 and Figure 5.4-20.

Change Request Number : SA-92-60.3

Commitment Register Number :

Related SER : 5.4.3 SSER :22 5.4.3

SER/SSER Impact : No

5.4-56

4

Adds RHR pump descriptive information.

Addition :

Relocation of a portion of Q212.33 response to FSAR text in preparation for the USAR.

Change Request Number : SA-92-386.3

Commitment Register Number :

Related SER : 5.4.3 SSER :

SER/SSER Impact : No

5.4-59

4

Adds information on the detection & response to RHR System piping leakage.

Addition :

Relocation of a portion of Q212.63 response to FSAR text in preparation for the USAR.

Change Request Number : SA-92-18.3

Commitment Register Number : X2-0126

Related SER : 5.4.3 SSER :22 5.4.3

SER/SSER Impact : No

5.4-60

4

See Sheet No(s) :61

Adds information on the potential for exceeding allowable cooldown rates.

Addition :

Relocation of the response to Q212.35, and a portion of the response to Q212.104, to FSAR text in preparation for the USAR.

Change Request Number : SA-92-388.3

Commitment Register Number :

Related SER : 5.4.3 SSER :22 5.4.3

SER/SSER Impact : No

5.4-63

4

Adds reference to FSAR Section 6.2.4.1.3.5 for further discussion of the function of the RHR suction line isolation valve arrangement.

Addition :

Editorial enhancement and connection to information moved from the response to Q022.21 to FSAR text.

Change Request Number : SA-92-75.2

Commitment Register Number :

Related SER : 5.4.3 SSER :22 5.4.3

SER/SSER Impact : No

FSAR Page (as amended)	Group Description
5.4-63	<p>4 See Sheet No(s) :64 Adds information on the RHR pump mini-flow valve interlock. Addition : Relocation of a portion of Q212.100 response to FSAR text in preparation for the USAR. Change Request Number : SA-92-60.4 Commitment Register Number : Related SER : 5.4.3 SSER :22 5.4.3 SER/SSER Impact : No</p>
5.4-65	<p>4 Adds the following sentence: Consequences of the loss of component cooling water flow to RHR pumps are discussed in Section 9.2.2. Editorial : Editorial enhancement, connecting two FSAR Sections containing information on RHR pumps. Change Request Number : SA-92-386.4 Commitment Register Number : Related SER : 5.4.3 SSER : SER/SSER Impact : No</p>
5.4-68	<p>4 See Sheet No(s) :69 Adds new Section 5.4.7.2.8, Leakage Detection Capability for RHR System Leakage. Addition : Relocation of Q212.30 response to FSAR text in preparation for the USAR. Change Request Number : SA-92-384.2 Commitment Register Number : X1-0942 Related SER : 5.4.3 SSER :22 5.4.3 SER/SSER Impact : No</p>
5.4-74	<p>4 Adds the maximum heatup/cooldown rate of the pressurizer. Addition : Relocation of a portion of Q212.63 response to FSAR text in preparation for the USAR. Change Request Number : SA-92-18.4 Commitment Register Number : NL-0115 Related SER : 5.4.3 SSER :22 5.4.3 SER/SSER Impact : No</p>
5.4-89	<p>4 Adds information on the design of hydraulic snubbers used in RCS component supports on the steam generator upper lateral support. Addition : Relocation of a portion of Q112.19 response to FSAR text in preparation for the USAR. Change Request Number : SA-92-299.3 Commitment Register Number : Related SER : 3.9.3 SSER :23 3.9.3</p>

FSAR Page (as amended)	Group Description	
	SER/SSER Impact	: No
5.4-91	4	<p>Adds information on the testing of hydraulic snubbers.</p> <p>Addition :</p> <p>Relocation of a portion of Q112.19 response to FSAR text in preparation for the USAR.</p> <p>Change Request Number : SA-92-299.10</p> <p>Commitment Register Number :</p> <p>Related SER : 3.9.3 SSER : 23 3.9.3</p> <p>SER/SSER Impact : No</p>
Figure 5.4-6	4	<p>This change performed under Design Mod (DM) 93-027 installs 1/2-inch diameter stainless steel tubing on the discharge of various vent valves in the RHR system to minimize the potential for contamination when venting these valves during tests, etc.</p> <p>Addition :</p> <p>Venting these valves to radioactive floor drains will help minimize the potential for the spread of radioactive contamination throughout the plant. The specified changes to the FSAR are minor, and neither significantly impact plant operations nor impact accident analyses.</p> <p>Change Request Number : SA-93-162.</p> <p>Commitment Register Number :</p> <p>Related SER : SSER :</p> <p>SER/SSER Impact : No</p>
Figure 5.4-20	4	<p>Adds new Figure 5.4-20, RHR Pump Mini-Flow Valve Interlock.</p> <p>Q&R Incorporation :</p> <p>Relocation of Q&R Figure 212.100-1 to FSAR text in preparation for the USAR.</p> <p>Change Request Number : SA-92-60.5</p> <p>Commitment Register Number :</p> <p>Related SER : 5.4.3 SSER : 22 5.4.3</p> <p>SER/SSER Impact : No</p>
SA-6	4	<p>Relocates information concerning manual handwheel operation of steam generator relief valves from Q212.69 to the FSAR text.</p> <p>Q&R Incorporation :</p> <p>This information is being relocated to the FSAR text as part of the process to convert the FSAR into an "updated FSAR" as required by 10CFR50.71(e).</p> <p>Change Request Number : SA-92-23.</p> <p>Commitment Register Number :</p> <p>Related SER : 15.6 SSER :</p> <p>SER/SSER Impact : No</p>
Table 6.1B-4	2	<p>Revision to the FSAR to incorporate the required boron concentration for the 18-month fuel cycle for</p>

FSAR Page
(as amended)

Group Description

Unit 1. In addition, the Containment Sump pH requirements for both units are updated.

Revision :

These changes were approved in NRC SER for Amendment 19/5 to the CPSES Technical Specifications. These FSAR changes are in accordance with the referenced License Amendment.

Change Request Number : SA-93-134.

Commitment Register Number :

Related SER : SSER :

SER/SSER Impact : No

6.2-5

4

Adds references to Westinghouse documents which contain initial steam generator water and steam inventories for Units 1 and 2.

Addition :

Relocation, and enhancement, of a portion of Q222.3 response to FSAR text in preparation for the USAR.

Change Request Number : SA-92-220.2

Commitment Register Number :

Related SER : 6.2.1 SSER :22 6.2.1

SER/SSER Impact : No

6.2-7

4

Adds information on the temperature of containment structures and the temperature of safety-related instrumentation inside containment in the case of a steam line break that results in peak containment vapor temperature.

Addition :

Relocation of a portion of Q022.1 response to FSAR text in preparation for the USAR.

Change Request Number : SA-92-43.2

Commitment Register Number :

Related SER : 6.2.1 SSER :22 6.2.1

SER/SSER Impact : No

6.2-28

4

See Sheet No(s) :29

Adds information on the review of the methods used by SATAN-V short-term mass and energy release analyses for evaluation of critical flow.

Addition :

Relocation of a portion of Q222.2 response to FSAR text in preparation for the USAR.

Change Request Number : SA-92-219.8

Commitment Register Number :

Related SER : 6.2.1 SSER :22 6.2.1

SER/SSER Impact : No

6.2-28

4

See Sheet No(s) :29

Moves an existing phrase and sentence in FSAR Section 6.2.1.2.3 to more appropriate locations, and separates the content of one paragraph into two paragraphs.

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Group Description

Editorial :
 Movement of the phrase and sentence, and the splitting of one paragraph into two paragraphs, within FSAR Section 6.2.1.2.3 is purely editorial, and is performed to place information in its most appropriate location. For example, Reference [7] discusses related models and methodologies, not the SATAN-V computer code; by moving the phrase "as described in Reference [7]" to a spot before the discussion of SATAN-V, this is made more apparent.
 Change Request Number : SA-92-219.9
 Commitment Register Number :
 Related SER : 6.2.1 SSER :
 SER/SSER Impact : No

6.2-42 4 Adds sentence referencing Table 6.2.1-65 for the types of steam line breaks and power levels analyzed in the analysis of feedwater transient flow to a faulted steam generator following a main steam line break.

Editorial :
 Relocation of a portion of Q&R 222.4 response to FSAR text in preparation for the USAR.
 Change Request Number : SA-92-221.2
 Commitment Register Number :
 Related SER : 6.2.1 SSER :22 6.2.1
 SER/SSER Impact : No

6.2-46 4 See Sheet No(s) :47
 Adds information, re: function and design of main feedwater control valves, to the assumptions used in the main steam line break analysis.

Addition :
 Relocation of a portion of Q022.1 response to FSAR text in preparation for the USAR.
 Change Request Number : SA-92-43.3
 Commitment Register Number : Y6-7605
 Related SER : 6.2.1 SSER :22 6.2.1
 SER/SSER Impact : No

6.2-47 4 Provides additional information on the assumptions and methodology used in the analysis of feedwater transient flow to a faulted steam generator following a main steam line break.

Addition :
 Relocation of a portion of Q&R 222.4 response to FSAR text in preparation for the USAR.
 Change Request Number : SA-92-221.3
 Commitment Register Number :
 Related SER : 6.2.1 SSER :22 6.2.1
 SER/SSER Impact : No

6.2-60 4 Adds three listings for Westinghouse documents which

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(as amended)

Group Description

are referenced within FSAR Section 6.2.1.1.3.2, and which pertain to initial steam generator water and steam inventories.

Addition :

Relocation, and enhancement, of a portion of Q222.3 response to FSAR text in preparation for the USAR. Added references, provided by Reactor Engineering, provide updated information regarding initial steam generator water and steam inventories.

Change Request Number : SA-92-220.3

Commitment Register Number :

Related SER : 6.2.1 SSER :22 6.2.1

SER/SSER Impact : No

6.2-61

4

Adds listing for NUREG-0138 to the references given at the end of FSAR Section 6.2.1.

Addition :

Relocation of a reference given in the response to Q022.1 to FSAR text in preparation for the USAR.

Change Request Number : SA-92-43.4

Commitment Register Number :

Related SER : 6.2.1 SSER :22 6.2.1

SER/SSER Impact : No

6.2-68

4

Adds information on design provisions for prevention of vortex formation in the containment sump post-LOCA.

Addition :

Relocation of Q&R 212.54 response to FSAR text in preparation for the USAR.

Change Request Number : SA-92-405.2

Commitment Register Number :

Related SER : 6.2.2 SSER :

SER/SSER Impact : No

6.2-75

4

Relocates information concerning procedures provided in the response to Q212.144 items a and c to FSAR text.

Change Request Number : SA-92-110.

Commitment Register Number :

Related SER : 6.2.2 SSER :

SER/SSER Impact : No

6.2-89

4

See Sheet No(s) :90

Adds information on the function of the RHR suction line isolation valve arrangement.

Addition :

Relocation of a portion of Q022.21 response to FSAR text in preparation for the USAR.

Change Request Number : SA-92-75.3

Commitment Register Number :

Related SER : 5.4.3 SSER :22 5.4.3

SER/SSER Impact : No

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Group Description

- 6.2-114 2 FSAR Section 6.2.5.3.1 discusses the input parameters for post- LOCA hydrogen generation within Containment. This change revises the predicted total hydrogen within the primary system boundary from 1191 scf to 1701 scf.
- Revision :
- This activity allows additional quantities of aluminum and zinc to be taken into Containment, which could increase the rate of hydrogen generation in Containment following a design basis accident. Although hydrogen production is not a cause of any of the accidents as evaluated in the Licensing Basis Documents (LBDs), if the hydrogen concentration is allowed to build up to explosive levels, it could threaten Containment integrity. Hence, this activity is related to the consequences of accidents which involve releases of RCS coolant into Containment and/or actuation of Containment Spray. The radiological consequences, effects on sump pH and post- accident containment pressure have been evaluated and considered acceptable. Further, the hydrogen recombiners will continue to be activated (post-LOCA) at a 3.5% hydrogen concentration, this activation expected to occur approximately 9 days following a LOCA.
- Change Request Number : SA-93-141.
Commitment Register Number : NL-0327
Related SER : 6.2.4 SSER :24 6.2.4
SER/SSER Impact : No
- 6.2-116 2 FSAR Section 6.2.5.3.2 discusses various aspects of post-LOCA hydrogen mixing from several areas in containment. This change revises the hydrogen flow rate from sump corrosion from its current value of 1.7 scfm to 2.34 scfm.
- Revision :
- This activity allows additional quantities of aluminum and zinc to be taken into Containment, which could increase the rate of hydrogen generation in Containment following a design basis accident. Although hydrogen production is not a cause of any of the accidents as evaluated in the Licensing Basis Documents (LBDs), if the hydrogen concentration is allowed to build up to explosive levels, it could threaten Containment integrity. Hence, this activity is related to the consequences of accidents which involve releases of RCS coolant into Containment and/or actuation of Containment Spray. The radiological consequences, effects on sump pH and post- accident containment pressure have been evaluated and considered acceptable. Further, the hydrogen recombiners will continue to be activated

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Group Description

(post-LOCA) at a 3.5% hydrogen concentration, this activation expected to occur approximately 9 days following a LOCA.

Change Request Number : SA-93-141.
Commitment Register Number : NL-0327
Related SER : 6.2.4 SSER :24 6.2.4
SER/SSER Impact : No

6.2-128

2

Revises the quantity of hydrogen contained in the RCS during steady state operation from 1191 to 1701 scf. This change makes Section 6.2.5A.2 consistent with Section 6.2.5.3.1.

Revision :

This activity allows additional quantities of aluminum and zinc to be taken into Containment, which could increase the rate of hydrogen generation in Containment following a design basis accident. Although hydrogen production is not a cause of any of the accidents as evaluated in the Licensing Basis Documents (LBDs), if the hydrogen concentration is allowed to build up to explosive levels, it could threaten Containment integrity. Hence, this activity is related to the consequences of accidents which involve releases of RCS coolant into Containment and/or actuation of Containment Spray. The radiological consequences, effects on sump pH and post- accident containment pressure have been evaluated and considered acceptable. Further, the hydrogen recombiners will continue to be activated (post-LOCA) at a 3.5% hydrogen concentration, this activation expected to occur approximately 9 days following a LOCA.

Change Request Number : SA-93-141.
Commitment Register Number : NL-0327
Related SER : 6.2.4 SSER :24 6.2.4
SER/SSER Impact : No

6.2-135

2

This is an editorial change, better describing the plot of hydrogen concentration as a function of time as depicted in Figure 6.2.5A-9.

Clarification :

This is an editorial change only, indicating that Figure 6.2.5A-9 depicts Containment hydrogen concentration with the recombiner started at time = "24 hours" rather than "on the second day".

Change Request Number : SA-93-141.
Commitment Register Number : NL-0327
Related SER : 6.2.4 SSER :24 6.2.4
SER/SSER Impact : No

6.2-138

2

Adds a reference to WPT-15218, "Containment Hydrogen Evaluation with Increased Al and Zn Inventories." This document was used a part of the basis for

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(as amended)

Group Description

changes to the Containment Al and Zn inventories discussed in this amendment.

Addition :

This is a change to the References for this section only, referencing the Westinghouse analysis used in conjunction with the changes to this FSAR section.

Change Request Number : SA-93-141.

Commitment Register Number : NL-0327

Related SER : 6.2.4 SSER :24 6.2.4

SER/SSER Impact : No

6.2-148

4

Adds listings for WCAP-8204, Westinghouse Mass and Energy Release Data for Containment Design, and NEDO-13418, Critical Flow of Saturated and Subcooled Water at High Pressure, to the list of references at the end of Section 6.2.1.

Addition :

Relocation of two references given in Q222.2 response to FSAR text in preparation for the USAR.

Change Request Number : SA-92-219.10

Commitment Register Number :

Related SER : 6.2.1 SSER :22 6.2.1

SER/SSER Impact : No

Table 6.2.2-1

2

See Sheet No(s) :1

Revision to the FSAR to incorporate the required boron concentration for the 18-month fuel cycle for Unit 1. In addition, the Containment Sump pH requirements for both units are updated.

Revision :

These changes were approved in NRC SER for Amendment 19/5 to the CPSES Technical Specifications. These FSAR changes are in accordance with the referenced License Amendment.

Change Request Number : SA-93-134.

Commitment Register Number :

Related SER : SSER :

SER/SSER Impact : No

Figure 6.2.2-1

4

See Sheet No(r) :1 and 2

This change performed under Design Modification (DM) 93-027 installs 1/2-inch diameter stainless steel tubing on the discharge of various vent valves in the Containment Spray System on Unit 2 to minimize the potential for contamination when venting these valves during tests, etc.

Addition :

Venting these valves to radioactive floor drains will help minimize the potential for the spread of radioactive contamination throughout the plant. The specified changes to the FSAR are minor, and neither significantly impact plant operations nor impact accident analyses.

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Group Description

Change Request Number : SA-93-162.
 Commitment Register Number :
 Related SER : SSER :
 SER/SSER Impact : No

Table 6.2.4-1

2

See Sheet No(s) : 7

Containment Penetration MIII-17 (Unit 1 only) from "spare" to "Containment Integrated Leak Rate Test" for use during ILRT and for cable feed-through during normal plant outage activities.

Revision :

This modification consists of the installation of a weld neck Class 150 flange and blind flange inside Containment and a weld neck Class 150 flange, blind flange, and 3/4-inch test connection outside containment. The revised configuration is shown on FSAR Figure 9.4-6 Sheet 2.

Following the completion of an Integrated Leak Rate Test (ILRT), the blind flange outside containment is to be removed, and depressurization is to be controlled through the operation of associated valve 1LT-0008. The penetration is to be returned to the permanent configuration prior to entering a plant condition where Containment Isolation is required. Calculations were performed to determine that the final configuration is acceptable under accident (LOCA) and seismic conditions. In addition, the penetration configuration during the testing and depressurization stages of the ILRT was evaluated for stress and deadweight loadings, and was found to be acceptable.

In addition, calculations were performed to evaluate the effects of the depressurization on the ILRT duration and the effect of the discharge of the Containment atmosphere into the Safeguards building, determining this flow to be acceptable. This modification is estimated to save in excess of 10 hours in the depressurization time from the previous ILRT.

Change Request Number : SA-93-135.
 Commitment Register Number :
 Related SER : SSER :
 SER/SSER Impact : No

Table 6.2.4-2

2

See Sheet No(s) : 08

Revises leak rate testing requirements for the referenced penetration.

Revision :

Local leak rate testing is to be completed on the revised penetration on Unit 1.

Change Request Number : SA-93-135.
 Commitment Register Number :
 Related SER : SSER :

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 (as amended)

Group Description

SER/SSER Impact : No

Table 6.2.4-2

4

See Sheet No(s) :14
 Adds "(Note 15)" to the column entitled Type of Leakage Rate Test for the two containment pressure relief isolation valves.
 Editorial :
 Relocation of a portion of Q022.20 response to FSAR text in preparation for the USAR.
 Change Request Number : SA-92-45.3
 Commitment Register Number : RE-0216-002
 Related SER : 6.2.3 SSER :22 6.2.3
 SER/SSER Impact : No

Table 6.2.4-2

4

See Sheet No(s) :18
 Adds Note 15, concerning leak testing frequency of containment pressure relief isolation valves as well as specific conditions of the testing.
 Addition :
 Relocation of a portion of Q022.20 response to FSAR text in preparation for the USAR.
 Change Request Number : SA-92-45.4
 Commitment Register Number : RE-0216-002
 Related SER : 6.2.3 SSER :22 6.2.3
 SER/SSER Impact : No

Table 6.2.4-3

2

See Sheet No(s) :9
 Revises Table 6.2.4-3 Sheet 9 regarding Containment Isolation Valve positioning and operation (not applicable to the modified penetration).
 Revision :
 The modified penetration MIII-17 does not employ a containment isolation valve and thus isolation valve position and closure times are not applicable.
 Change Request Number : SA-93-135.
 Commitment Register Number :
 Related SER : SSER :
 SER/SSER Impact : No

Table 6.2.4-6

2

See Sheet No(s) :9
 Revision to Table 6.2.4-6, "Classification of Systems Paths Penetration Containment Wall", in support of the modification to the penetration.
 Revises the system, normal operating function, classification, and post-accident function for the modified penetration on Unit 1.
 Revision :
 The modified penetration MIII-17 has no normal operating function, is classified as non-essential, and serves no post-accident function.
 Change Request Number : SA-93-135.
 Commitment Register Number :
 Related SER : SSER :

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(as amended)

Group Description

SER/SSER Impact : No

Table 6.2.5A-3

2

See Sheet No(s) :2

Revises Table 6.2.5A-3, "Inventory of Aluminum and Zinc in Containment," indicating the additional 4000 square feet each of aluminum and zinc that may be safely added to the existing inventories.

Revision :

This activity allows additional quantities of aluminum and zinc to be taken into Containment, which could increase the rate of hydrogen generation in Containment following a design basis accident. Although hydrogen production is not a cause of any of the accidents as evaluated in the Licensing Basis Documents (LBDs), if the hydrogen concentration is allowed to build up to explosive levels, it could threaten Containment integrity. Hence, this activity is related to the consequences of accidents which involve releases of RCS coolant into Containment and/or actuation of Containment Spray.

The radiological consequences, effects on sump pH and post- accident containment pressure have been evaluated and considered acceptable. Further, the hydrogen recombiners will continue to be activated (post-LOCA) at a 3.5% hydrogen concentration, this activation expected to occur approximately 9 days following a LOCA.

Change Request Number : SA-93-141.

Commitment Register Number : NL-0327

Related SER : 6.2.4 SSER :24 6.2.4

SER/SSER Impact : No

Figure 6.2.5A-5

2

Revises Figure 6.2.5A-5, "Hydrogen Production Rates, NRC Model", based on modified hydrogen production as a result of the revised Al/Zn Containment inventories.

Revision :

This activity allows additional quantities of aluminum and zinc to be taken into Containment, which could increase the rate of hydrogen generation in Containment following a design basis accident. Although hydrogen production is not a cause of any of the accidents as evaluated in the Licensing Basis Documents (LBDs), if the hydrogen concentration is allowed to build up to explosive levels, it could threaten Containment integrity. Hence, this activity is related to the consequences of accidents which involve releases of RCS coolant into Containment and/or actuation of Containment Spray.

The radiological consequences, effects on sump pH and post- accident containment pressure have been evaluated and considered acceptable. Further, the hydrogen recombiners will continue to be activated

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(post-LOCA) at a 3.5% hydrogen concentration, this activation expected to occur approximately 9 days following a LOCA.

Change Request Number : SA-93-141.
Commitment Register Number : NL-0327
Related SER : 6.2.4 SSER :24 6.2.4
SER/SSER Impact : No

Figure 6.2.5A-7

2

Revision to Figure 6.2.5A-7, "Hydrogen Accumulation from All Sources, NRC Model - No Recombiner", due to increased Containment inventories of Al and Zn.

Revision :

This activity allows additional quantities of aluminum and zinc to be taken into Containment, which could increase the rate of hydrogen generation in Containment following a design basis accident. Although hydrogen production is not a cause of any of the accidents as evaluated in the Licensing Basis Documents (LBDs), if the hydrogen concentration is allowed to build up to explosive levels, it could threaten Containment integrity. Hence, this activity is related to the consequences of accidents which involve releases of RCS coolant into Containment and/or actuation of Containment Spray. The radiological consequences, effects on sump pH and post- accident containment pressure have been evaluated and considered acceptable. Further, the hydrogen recombiners will continue to be activated (post-LOCA) at a 3.5% hydrogen concentration, this activation expected to occur approximately 9 days following a LOCA.

Change Request Number : SA-93-141.
Commitment Register Number : NL-0327
Related SER : 6.2.4 SSER :24 6.2.4
SER/SSER Impact : No

Figure 6.2.5A-9

2

Revision to Figure 6.2.5A-9, "Containment Hydrogen Concentration, NRC Model", based on the increased Containment inventories of Al and Zn.

Revision :

This activity allows additional quantities of aluminum and zinc to be taken into Containment, which could increase the rate of hydrogen generation in Containment following a design basis accident. Although hydrogen production is not a cause of any of the accidents as evaluated in the Licensing Basis Documents (LBDs), if the hydrogen concentration is allowed to build up to explosive levels, it could threaten Containment integrity. Hence, this activity is related to the consequences of accidents which involve releases of RCS coolant into Containment and/or actuation of Containment Spray. The radiological consequences, effects on sump pH

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Group Description

and post- accident containment pressure have been evaluated and considered acceptable. Further, the hydrogen recombiners will continue to be activated (post-LOCA) at a 3.5% hydrogen concentration, this activation expected to occur approximately 9 days following a LOCA.

Change Request Number : SA-93-141.
 Commitment Register Number : NL-0327
 Related SER : 6.2.4 SSER : 24 6.2.4
 SER/SSER Impact : No

6.3-7

4

See Sheet No(s) : 8

Adds information (for residual heat removal pumps) on the prevention of forward air flow through check valves, if one MOV fails to close.

Addition :

Relocation of a portion of Q212.140 response to FSAR text in preparation for the USAR.

Change Request Number : SA-92-193.12
 Commitment Register Number : OP-0305/OP-0306
 Related SER : 6.3.2 SSER : 6.3.3
 SER/SSER Impact : No

6.3-8

4

Adds information on prevention of water hammer on ECCS lines associated with centrifugal charging pumps.

Addition :

Relocation of a portion of Q212.46 response to FSAR text in preparation for the USAR.

Change Request Number : SA-92-397.2
 Commitment Register Number :
 Related SER : 6.3.2 SSER :
 SER/SSER Impact : No

6.3-8

4

Adds reference to Section 6.3.2.2.12 for related motor-operated valves, and Section 6.3.2.8 for manual actions required of the operator in the changeover from the injection to the recirculation modes.

Addition :

Editorial enhancement, and in part a connection to information moved from the response to Q212.140 to FSAR text.

Change Request Number : SA-92-193.12
 Commitment Register Number :
 Related SER : 6.3.2 SSER : 6.3.3
 SER/SSER Impact : No

6.3-18

4

Adds information noting that a single failure of valve 8806 to close will not result in a loss of core cooling or a path that permits the release of radioactive material from the containment to the environment. In the process of incorporation,

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(as amended)

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removed the unit designator from the subject valve.

Addition :

Relocation of a portion of Q212.61 response to FSAR text in preparation for the USAR. Unit designator is removed from the subject valve in accordance with the information provided in the Inservice Testing Plan (IST) and FSAR Tables 3.9N-10 & 6.3-3.

Change Request Number : SA-92-412.2

Commitment Register Number : Y6-2066

Related SER : 8.4.3 SSER :22 8.4.3

SER/SSER Impact : No

6.3-18

4

Adds example noting that valves SI-047 & SI-048 are locked open.

Addition :

Relocation of a portion of Q212.61 response to FSAR text in preparation for the USAR.

Change Request Number : SA-92-412.3

Commitment Register Number : OP-0314

Related SER : 6.3.3 SSER :03 6.3.3

SER/SSER Impact : No

6.3-18

4

Removes unit designator from valves SI-047 & SI-048.

Correction :

Unit designator is removed from the subject valves in accordance with the information provided in the Inservice Testing Plan (IST).

Change Request Number : SA-92-412.4

Commitment Register Number :

Related SER : 6.3.2 SSER :

SER/SSER Impact : No

6.3-18

4

Adds information noting that non-motor-operated valves do not fall under the requirements of RSB BTP 6-1, and are not subject to single active failure.

Addition :

Relocation of a portion of Q212.61 response to FSAR text in preparation for the USAR.

Change Request Number : SA-92-412.5

Commitment Register Number :

Related SER : 6.3.3 SSER :

SER/SSER Impact : No

6.3-20

4

Adds information on the prevention of water hammer in the ECCS lines.

Addition :

Relocation of a portion of Q212.46 response to FSAR text in preparation for the USAR.

Change Request Number : SA-92-397.3

Commitment Register Number : X1-0946

Related SER : 6.3.2 SSER :

SER/SSER Impact : No

FSAR Page (as amended)	Group Description
6.3-23	<p>4 See Sheet No(s) :24 and 25 Adds information on requirements of the leak detection system and related analyses. Addition : Relocation of portions of Q212.6 & Q212.95 responses to FSAR text in preparation for the USAR. Change Request Number : SA-92-367.2 Commitment Register Number : Related SER : 6.3.2 SSER : SER/SSER Impact : No</p>
6.3-28	<p>4 Notes that ECCS switchover from safety injection to cold leg recirculation is initiated automatically upon receipt of the RWST switchover initiation (RWST low-low level) signal, and is completed via timely operator action at the main control board. Addition : Relocation of a portion of Q212.113 response to FSAR text in preparation for the USAR. Change Request Number : SA-92-193.3 Commitment Register Number : X2-0123 Related SER : 6.3.2 SSER : 6.3.3 SER/SSER Impact : No</p>
6.3-28	<p>4 See Sheet No(s) :29 Adds the valve numbers of the two safety injection recirculation sump isolation valves, and changes the wording, re: automatic changeover from injection to recirculation mode, to read: This automatic action aligns the suction of the two Residual Heat Removal (RHR) pumps to the containment recirculation sump to ensure continued availability of a suction source. It should be noted that RHR pumps continue to operate during this changeover from injection mode to recirculation mode. Clarification : Relocation of a portion of Q212.113 response to FSAR text in preparation for the USAR. Change Request Number : SA-92-193.4 Commitment Register Number : Related SER : 6.3.2 SSER : 6.3.3 SER/SSER Impact : No</p>
6.3-29	<p>4 See Sheet No(s) :30 Adds information on the procedure supporting switchover from injection to cold leg recirculation, and resulting impact on RWST outflow. Addition : Relocation of a portion of Q212.113 response to FSAR text in preparation for the USAR. Change Request Number : SA-92-193.5 Commitment Register Number : X2-0124/X2-0125 Related SER : 6.3.2 SSER : 6.3.3</p>

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(as amended)

Group Description

		SER/SSER Impact	: No
6.3-30	4	Adds the word "recirculation" to "containment sump". Clarification : Word added to clarify information provided. Change Request Number : SA-92-193.6 Commitment Register Number : Related SER : 6.3.2 SSER : 6.3.3 SER/SSER Impact : No	
6.3-30	4	See Sheet No(s) :31 and 32 Adds information on the minimum delay between the RWST "low" level signal and the "low-low" level signal, time requirement for operator action to complete ECCS switchover, and an analysis of the time available for switchover. Addition : Relocation of a portion of Q212.113 & Q212.140 responses to FSAR text in preparation for the USAR. Change Request Number : SA-92-193.7 Commitment Register Number : Related SER : 6.3.2 SSER : 6.3.3 SER/SSEK Impact : No	
6.3-32	4	Adds reference to Section 6.3.2.2.4 for information on RHR pumps and related operator action. Addition : Editorial enhancement and connection to information moved from the response to Q212.140 to FSAR text. Change Request Number : SA-92-193.14 Commitment Register Number : Related SER : 6.3.2 SSER : 6.3.3 SER/SSER Impact : No	
6.3-32	4	See Sheet No(s) :33 and 34 Adds information on system blocking features and related manual actions required of the operator. Addition : Relocation of a portion of Q212.63 response to FSAR text in preparation for the USAR. Change Request Number : SA-92-18.5 Commitment Register Number : NL-2457/X2-0109/X2-0113.. Related SER : 5.4.3 SSER : 6.3.2 SER/SSER Impact : No	
6.3-34	4	Adds information on the need for operator action to restart equipment upon the reset of all or part of the ECCS during the injection phase. Addition : Relocation of a portion of Q212.41 response to FSAR text in preparation for the USAR. Change Request Number : SA-92-392.2 Commitment Register Number :	

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(as amended)

Group Description

Related SER : 6.3.2 SSER : 7.3
SER/SSER Impact : No

- | | | |
|--------|---|---|
| 6.3-36 | 2 | Revision to the FSAR to incorporate the required boron concentration for the 18-month fuel cycle for Unit 1. In addition, the Containment Sump pH requirements for both units are updated.
Revision :
These changes were approved in NRC SER for Amendment 19/5 to the CPSES Technical Specifications. These FSAR changes are in accordance with the referenced License Amendment.
Change Request Number : SA-93-134.
Commitment Register Number :
Related SER : SSER :
SER/SSER Impact : No |
| 6.3-40 | 2 | Revision to the FSAR to incorporate the required boron concentration for the 18-month fuel cycle for Unit 1. In addition, the Containment Sump pH requirements for both units are updated.
Revision :
These changes were approved in NRC SER for Amendment 19/5 to the CPSES Technical Specifications. These FSAR changes are in accordance with the referenced License Amendment.
Change Request Number : SA-93-134.
Commitment Register Number :
Related SER : SSER :
SER/SSER Impact : No |
| 6.3-46 | 4 | Adds information on prevention of water hammer in ECCS piping between containment penetrations and the RWST.
Addition :
Relocation of a portion of Q212.46 response to FSAR text in preparation for the USAR.
Change Request Number : SA-92-397.4
Commitment Register Number :
Related SER : 6.3.3 SSER :
SER/SSER Impact : No |
| 6.3-50 | 4 | Adds information on check valves with leakage detection capability and related testing criteria.
Addition :
Relocation of a portion of Q212.52 response to FSAR text in preparation for the USAR.
Change Request Number : SA-92-403.2
Commitment Register Number :
Related SER : 6.3.4 SSER : 01 6.3.4
SER/SSER Impact : No |
| 6.3-50 | 4 | Adds specific valve numbers (as a |

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(as amended)

Group Description

parenthetical statement) which form high to low pressure isolation barriers.

Addition :

Relocation of a portion of Q212.52 response to FSAR text in preparation for the USAR.

Change Request Number : SA-92-403.3

Commitment Register Number :

Related SER : 6.4.3 SSER :

SER/SSER Impact : No

6.3-50

4

See Sheet No(s) :51

Makes the following editorial changes: (1) Adds phrase "As noted above" to a sentence which is now repeated as a result of the Q&R incorporation process. (2) Changes sentence to read: Lines in which series check valves are to be tested include....

Clarification :

Editorial enhancement to clarify information provided in FSAR text.

Change Request Number : SA-92-403.5

Commitment Register Number :

Related SER : 6.4.3 SSER :

SER/SSER Impact : No

6.3-51

4

Adds the following sentence to a discussion of Technical Specification criteria: Leakage must be within Technical Specification limits for RCS leakage.

Addition :

Relocation of a portion of Q212.52 response to FSAR text in preparation for the USAR.

Change Request Number : SA-92-403.4

Commitment Register Number :

Related SER : 6.4.3 SSER :01 6.4.3

SER/SSER Impact : No

6.3-51

4

See Sheet No(s) :53

Moves existing sentences around within Section 6.3.4.2 to more appropriate locations.

Editorial :

Movement of sentences within Section 6.3.4.2 is purely editorial, and is performed to place these sentences in their most appropriate location, e.g., Tech Spec information with other information related to Tech Specs, Inservice Inspection Program information with other information related to this Program.

Change Request Number : SA-92-403.6

Commitment Register Number :

Related SER : 6.3.4 SSER :

SER/SSER Impact : No

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(as amended)

Group Description

- | | | |
|-------------|---|---|
| 6.3-56 | 4 | <p>Revises sentence to read: Concurrently, the RWST low-low level alarm alerts the operator of the automatic initiation of ECCS switchover and that actions (as delineated in Table 6.3-7) must be performed to realign the ECCS from the injection mode to the recirculation mode following an accident.</p> <p>Revision :</p> <p>Relocation of a portion of Q212.113 response to FSAR text in preparation for the USAR.</p> <p>Change Request Number : SA-92-193.8</p> <p>Commitment Register Number :</p> <p>Related SER : 6.3.2 SSER : 6.3.3</p> <p>SER/SSER Impact : No</p> |
| Table 6.3-1 | 2 | <p>See Sheet No(s) :1</p> <p>Revision to the FSAR to incorporate the required boron concentration for the 18-month fuel cycle for Unit 1. In addition, the Containment Sump pH requirements for both units are updated.</p> <p>Revision :</p> <p>These changes were approved in NRC SER for Amendment 19/5 to the CPSES Technical Specifications. These FSAR changes are in accordance with the referenced License Amendment.</p> <p>Change Request Number : SA-93-134.</p> <p>Commitment Register Number :</p> <p>Related SER : SSER :</p> <p>SER/SSER Impact : No</p> |
| Table 6.3-1 | 3 | <p>See Sheet No(s) :4</p> <p>This activity involved replacement of gears that resulted in an increase in the maximum stroke times for ten motor operated valves (MOVs) in the Emergency Core Cooling System (ECCS) for Unit 1.</p> <p>Revision :</p> <p>Modification of the gears due to the GL 89-10 MOV program caused an increase in the maximum allowable stroke times for several MOVs in the ECCS. There are no response times (for performance of a safety function) that are changed; therefore, the safety functions of these valves are maintained.</p> <p>Change Request Number : SA-93-128.</p> <p>Commitment Register Number :</p> <p>Related SER : SSER :</p> <p>SER/SSER Impact : No</p> |
| Table 6.3-7 | 4 | <p>See Sheet No(s) :Sheet 1</p> <p>Adds information on operator action between receipt of the RWST low level alarm and receipt of the RWST low-low level switchover initiation alarm.</p> <p>Addition :</p> <p>Relocation of a portion of Q212.133 response to FSAR</p> |

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 (as amended)

Group Description

		<p>text in preparation for the USAR.</p> <p>Change Request Number : SA-92-193.9</p> <p>Commitment Register Number :</p> <p>Related SER : 6.3.2 SSER : 6.3.3</p> <p>SER/SSER Impact : No</p>
Table 6.3-7	4	<p>See Sheet No(s) : Sheet 5</p> <p>Adds information on the dilution of boron concentration and prevention of excessive boron concentration.</p> <p>Addition :</p> <p>Relocation of a portion of Q212.40 response to FSAR text in preparation for the USAR.</p> <p>Change Request Number : SA-92-391.2</p> <p>Commitment Register Number : NL-6015</p> <p>Related SER : 6.3.2 SSER : 6.3.3</p> <p>SER/SSER Impact : No</p>
Table 6.3-9	2	<p>Revision to the FSAR to incorporate the required boron concentration for the 18-month fuel cycle for Unit 1. In addition, the Containment Sump pH requirements for both units are updated.</p> <p>Revision :</p> <p>These changes were approved in NRC SER for Amendment 19/5 to the CPSES Technical Specifications. These FSAR changes are in accordance with the referenced License Amendment.</p> <p>Change Request Number : SA-93-134.</p> <p>Commitment Register Number :</p> <p>Related SER : SSER :</p> <p>SER/SSER Impact : No</p>
Table 6.3-11	4	<p>Adds new FSAR Table 6.3-11, RWST Outflow Large Break - Worst Single Failure, and incorporates, from the text of Q212.113 & Q212.140 responses, information on flowrates into Note 2.</p> <p>Addition :</p> <p>Relocation of Q&R Figure 212.113-1, and relocation of a portion of the Q212.113 & Q212.140 responses, to FSAR text in preparation for the USAR.</p> <p>Change Request Number : SA-92-193.10</p> <p>Commitment Register Number :</p> <p>Related SER : 6.3.2 SSER : 6.3.3</p> <p>SER/SSER Impact : No</p>
Figure 6.3-1	4	<p>See Sheet No(s) : 1, 2, and 4</p> <p>This change performed under Design Modification (DM) 93-027 installs 1/2-inch diameter stainless steel tubing on the discharge of various vent valves in the Safety Injection System for Unit 2 to minimize the potential for contamination when venting these valves during tests, etc.</p> <p>Addition :</p>

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Venting these valves to radioactive floor drains will help minimize the potential for the spread of radioactive contamination throughout the plant. The specified changes to the FSAR are minor, and neither significantly impact plant operations nor impact accident analyses.

Change Request Number : SA-93-162.
Commitment Register Number :
Related SER : SSER :
SER/SSER Impact : No

Figure 6.3-1

4

See Sheet No(s) :3
Revises FSAR Figure 6.3-1 Sheet 3 to indicate that valve SI-0211 exists on CPSES Unit 1 only.
Clarification :
Valve ISI-0211 is a test connection on the Safety Injection System and serves no vital plant or testing function. This change has no impact on plant operation and has been determined to constitute a trivial change.

Change Request Number : SA-94-6.
Commitment Register Number :
Related SER : SSER :
SER/SSER Impact : No

Figure 6.3-8

4

Adds new Figure 6.3-8, Flow Rates for Floating Bushing.
Q&R Incorporation :
Relocation of a portion of Q212.6 response to FSAR text in preparation for the USAR.

Change Request Number : SA-92-367.5
Commitment Register Number :
Related SER : 6.3.2 SSER :
SER/SSER Impact : No

Figure 6.3-9

4

Adds new Figure 6.3-9, Bushing Leak Rate After Severe Operation.
Q&R Incorporation :
Relocation of a portion of Q212.6 response to FSAR text in preparation for the USAR.

Change Request Number : SA-92-367.6
Commitment Register Number :
Related SER : 6.3.2 SSER :
SER/SSER Impact : No

6.5-9

4

Adds the following sentence: The [chemical additive] solution has a crystallization temperature of 35 F.
Addition :
Relocation of a portion of Q312.17 response to FSAR text in preparation for the USAR.

Change Request Number : SA-92-272.2
Commitment Register Number :
Related SER : 6.5.2 SSER :

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SER/SSER Impact : No

6.5-9	2	<p>Revision to the FSAR to incorporate the required boron concentration for the 18-month fuel cycle for Unit 1. In addition, the Containment Sump pH requirements for both units are updated.</p> <p>Revision :</p> <p>These changes were approved in NRC SER for Amendment 19/5 to the CPSES Technical Specifications. These FSAR changes are in accordance with the referenced License Amendment.</p> <p>Change Request Number : SA-93-134.</p> <p>Commitment Register Number :</p> <p>Related SER : SSER :</p> <p>SER/SSER Impact : No</p>
6.5-18	2	<p>Revision to the FSAR to incorporate the required boron concentration for the 18-month fuel cycle for Unit 1. In addition, the Containment Sump pH requirements for both units are updated.</p> <p>Revision :</p> <p>These changes were approved in NRC SER for Amendment 19/5 to the CPSES Technical Specifications. These FSAR changes are in accordance with the referenced License Amendment.</p> <p>Change Request Number : SA-93-134.</p> <p>Commitment Register Number :</p> <p>Related SER : SSER :</p> <p>SER/SSER Impact : No</p>
Table 6.5-2	2	<p>See Sheet No(s) :1</p> <p>Revision to the FSAR to incorporate the required boron concentration for the 18-month fuel cycle for Unit 1. In addition, the Containment Sump pH requirements for both units are updated.</p> <p>Revision :</p> <p>These changes were approved in NRC SER for Amendment 19/5 to the CPSES Technical Specifications. These FSAR changes are in accordance with the referenced License Amendment.</p> <p>Change Request Number : SA-93-134.</p> <p>Commitment Register Number :</p> <p>Related SER : SSER :</p> <p>SER/SSER Impact : No</p>
Table 6.5-3	2	<p>Revision to the FSAR to incorporate the required boron concentration for the 18-month fuel cycle for Unit 1. In addition, the Containment Sump pH requirements for both units are updated.</p> <p>Revision :</p> <p>These changes were approved in NRC SER for Amendment 19/5 to the CPSES Technical Specifications. These FSAR changes are in accordance with the referenced</p>

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License Amendment.
Change Request Number : SA-93-134.
Commitment Register Number :
Related SER : SSER :
SER/SSER Impact : No

- 6.6-1 4 Moves existing sentence discussing the Inservice Inspection Program up to a more appropriate location within FSAR Section 6.6.1. Updates status of preservice inspection program by replacing "will be" with "were". And, adds a sentence referencing the Preservice Inspection Plan for both units as a source of details of the preservice inspection, including the relief requests.
Addition :
The movement of the sentence within FSAR Section 6.6.1 is an editorial enhancement. Editorial update to verb tense to reflect completion of the preservice inspection program. Reference added noting where the information promised to the NRC in the responses to Q121.12 & Q121.13 may be found.
Change Request Number : SA-92-310.4
Commitment Register Number :
Related SER : 6.6 SSER :
SER/SSER Impact : No
- 7.1-44 4 Adds the following sentence to Section 7.1.2.6: The design was verified as part of the Preoperational Test Program.
Addition :
Relocation of a portion of Q032.104 response to FSAR text in preparation for the USAR.
Change Request Number : SA-92-130.2
Commitment Register Number : X2-0602
Related SER : 7.3.1 SSER :02 7.3.2
SER/SSER Impact : No
- 7.2-6 4 Adds information on the steam line break accidents analyzed which determined requirements for protection from thermal overpower trips (overpower or overtemperature N-16).
Addition :
Relocation of a portion of Q032.56 response to FSAR text in preparation for the USAR.
Change Request Number : SA-92-101.3
Commitment Register Number :
Related SER : 7.2 SSER :22 7.2
SER/SSER Impact : No
- 7.2-13 4 Adds information on QA requirements for anticipatory reactor trip on turbine trip.
Addition :
Relocation of a portion of Q260.1 response to FSAR

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		text in preparation for the USAR. Change Request Number : SA-92-255.2 Commitment Register Number : X2-0102 Related SER : 17.3 SSER :22 17.3 SER/SSER Impact : No
7.2-14	4	Adds the following sentence: "These conduits are shown on plant physical layout drawings." Addition : Relocation of a portion of Q032.40 response to FSAR text in preparation for the USAR. Change Request Number : SA-92-101.4 Commitment Register Number : Related SER : 7.2 SSER :22 7.2 SER/SSER Impact : No
7.2-19	4	Adds descriptive information on the independence of the transit time flow meter from the protection equipment. Addition : Relocation of a portion of Q032.97 response to FSAR text in preparation for the USAR. Change Request Number : SA-92-124.2 Commitment Register Number : Related SER : 7.2.1 SSER :22 7.2.1 SER/SSER Impact : No
7.2-24	4	See Sheet No(s) :25 Adds information on the prevention and resolution of certain potential problems in the testing of the Solid State Logic Protection System, experienced by other operating plants. Addition : Relocation of Q032.15 response to FSAR text in preparation for the USAR. Change Request Number : SA-92-85.2 Commitment Register Number : Related SER : 7.2.3 SSER :22 7.2.3 SER/SSER Impact : No
7.2-39	4	See Sheet No(s) :40 Adds information on the technical concept for testing flux rate trips while the plant is at power. Addition : Q&R relocation is being performed to prepare the FSAR for the USAR. Change Request Number : SA-92-100.2 Commitment Register Number : RE-0217 Related SER : 7.2.3 SSER :22 7.2.3 SER/SSER Impact : No
7.2-53	4	Adds information on the purpose and configuration of the pressurizer water level measurement system, and

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rewords existing information editorially to account for the added information.

Addition :

Relocation of a portion of Q032.103 response to FSAR text in preparation for the USAR.

Change Request Number : SA-92-129.5

Commitment Register Number :

Related SER : 7.2.2 SSER :

SER/SSER Impact : No

7.2-54

4

Adds reference to FSAR Figure 7.2-6 which depicts level measurement error due to system pressure changes; notes the availability of such a graph to operators to ensure they are aware of potential level measurement error; and, adds information concerning assurance that the operator will remain within the specified limits of the pressurizer water level indicators (accounting for adverse environment errors) while performing required manual safety functions.

Addition :

Relocation of portions of Q032.103 & Q212.124 responses to FSAR text in preparation for the USAR.

Change Request Number : SA-92-129.6

Commitment Register Number : OP-0293-001

Related SER : 7.2.2 SSER :

SER/SSER Impact : No

7.2-55

4

Adds information on the purpose and configuration of the steam generator narrow range and wide range water level detection system.

Addition :

Relocation of a portion of Q032.103 response to FSAR text in preparation for the USAR.

Change Request Number : SA-92-129.7

Commitment Register Number :

Related SER : 7.2.2 SSER :

SER/SSER Impact : No

7.2-56

4

Adds information on the use of the fourth signal in the steam generator level control system, consequences of its non-use, and the requirements of IEEE-279 Section 4.7.3 and 10 CFR Part 50.55a(h). As part of this addition, updates time limit for placing the high-high steam generator isolation signal for the channel selected for steam generator level control in the tripped condition from one hour to six hours.

Addition :

Relocation of Q032.109 response to FSAR text in preparation for the USAR. In addition, the update of the time limit for placing the high-high steam generator isolation signal for the channel selected

FSAR Page
(as amended)

Group Description

for steam generator level control in the tripped condition reflects a change made in Amendment 13 to the Technical Specifications, specifically to Note e in Table 3.3-2, and as already reflected in Action Statement 17 in Table 3.3-2.

Change Request Number : SA-92-134.2

Commitment Register Number : OP-0280

Related SER : 7.3.1 SSER :03 7.3.1.5

SER/SSER Impact : Yes

SSER 3 states that "When any other level signal [other than the fourth signal] is selected for steam generator level control in automatic, that channel of the high (Hi) steam generator level protection shall be placed in the tripped condition within 1 hour...." This agrees with the response to Q032.109, which was most recently revised via FSAR Amendment 32 dated 5/21/82, and Commitment OP-0296-002, which has since been deleted. In Technical Specification Amendment 13 dated January 21, 1993 "1 hour" was revised to "6 hours" in Table 3.3-2, Note e; this information is also contained in Action Statement 17 to the same Table. Commitment OP-0280 reflects this change. Q&R information as it is being incorporated into FSAR text also reflects this change.

7.2-57

4

See Sheet No(s) :58-61

Adds information on the measurement of steam generator water levels, including associated potential errors and biases.

Addition :

Relocation of a portion of Q032.103 response to FSAR text in preparation for the USAR.

Change Request Number : SA-92-129.8

Commitment Register Number : OP-0293-001/002/NL-2646

Related SER : 7.2.2 SSER :

SER/SSER Impact : No

7.2-63

4

Adds listing for correspondence which documents NRC acceptance of solid state protection system circuit modifications to the references given at the end of FSAR Section 7.2.

Addition :

Relocation of a reference given in Q032.15 response to FSAR text in preparation for the USAR.

Change Request Number : SA-92-85.3

Commitment Register Number :

Related SER : 7.2.3 SSER :22 7.2.3

SER/SSER Impact : No

Figure 7.2-4

4

Adds new FSAR Figure 7.2-4, Bias Due to Steam Generator Reference Leg Heatup.
Q&R Incorporation :

FSAR Page
(as amended)

Group Description

		Relocation of Q&R Figure 032.103-1 to FSAR text in preparation for the USAR. Change Request Number : SA-92-129.9 Commitment Register Number : Related SER : 7.2.2 SSER : SER/SSER Impact : No
Figure 7.2-5	4	Adds new FSAR Figure 7.2-5, Bias Due to Steam Generator Pressure Change. Q&R Incorporation : Relocation of Q&R Figure 032.103-2 to FSAR text in preparation for the USAR. Change Request Number : SA-92-129.10 Commitment Register Number : Related SER : 7.2.2 SSER : SER/SSER Impact : No
Figure 7.2-6	4	Adds new FSAR Figure 7.2-6, Bias Due to Pressurizer Pressure Change. Q&R Incorporation : Relocation of Q&R Figure 032.103-3 to FSAR text in preparation for the USAR. Change Request Number : SA-92-129.11 Commitment Register Number : Related SER : 7.2.2 SSER : SER/SSER Impact : No
7.3-12	4	Adds the following sentence to the discussion of the Containment Isolation System: The overriding of one type of safety actuation signal does not cause the blocking of any other type of safety actuation signal for those valves that have no function other than containment isolation. Addition : Relocation of a portion of Q032.104 response to FSAR text in preparation for the USAR. Change Request Number : SA-92-130.3 Commitment Register Number : Related SER : 7.3.1 SSER :02 7.3.2 SER/SSER Impact : No
7.3-13	4	See Sheet No(s) :14 Adds information on instrumentation systems which initiate Containment Ventilation Isolation, the ESFAS "T" signal, addition of a radioactivity channel to the Containment Ventilation Isolation Logic, and resetting of a retentive-memory-with-actuation-block gate after the receipt of a pulsed signal. Addition : Relocation of a portion of Q032.104 response to FSAR text in preparation for the USAR. Change Request Number : SA-92-130.4

FSAR Page
(as amended)

Group Description

Commitment Register Number : X1-0804
Related SER : 7.3.1 SSER :02 7.3.2
SER/SSER Impact : No

- | | | |
|--------|---|--|
| 7.3-15 | 4 | Adds information on spring-return-to-automatic type of control switches.
Addition :
Relocation of a portion of Q032.104 response to FSAR text in preparation for the USAR.
Change Request Number : SA-92-130.5
Commitment Register Number :
Related SER : 7.3.1 SSER :02 7.3.2
SER/SSER Impact : No |
| 7.3-15 | 4 | Adds note that overriding or resetting an ESFAS signal does not cause any equipment to change position.
Addition :
Relocation of a portion of Q032.104 response to FSAR text in preparation for the USAR.
Change Request Number : SA-92-130.6
Commitment Register Number : X2-0603
Related SER : 7.3.1 SSER :02 7.3.2
SER/SSER Impact : No |
| 7.3-62 | 4 | Adds information re: power interruption to engineered safety features system in conjunction with a LOCA or other postulated event.
Addition :
Relocation of Q032.21 response to FSAR text in preparation for the USAR.
Change Request Number : SA-92-89.2
Commitment Register Number : OP-0297
Related SER : 7.3.1 SSER :22 7.3.1
SER/SSER Impact : No |
| 7.3-87 | 4 | See Sheet No(s) :88
Adds information on the manual reset and block functions for the Engineered Safety Features Actuation System.
Addition :
Relocation of the response to Q032.83 to FSAR text in preparation for the USAR.
Change Request Number : SA-92-116.2
Commitment Register Number :
Related SER : 7.3 SSER :22 7.3
SER/SSER Impact : No |
| 7.3-89 | 4 | See Sheet No(s) :90
Adds information on the manual block features associated with pressurizer and steam line safety injection signals.
Addition : |

FSAR Page (as amended)	Group Description
	<p>Relocation of a portion of Q212.63 response to FSAR text in preparation for the USAR.</p> <p>Change Request Number : SA-92-18.6</p> <p>Commitment Register Number : X2-0121</p> <p>Related SER : 7.3.3 SSER :22 7.3.3</p> <p>SER/SSER Impact : No</p>
7.4-31	<p>4 Adds new Section 7.4.2.3.4, Loss of Class 1E and Non-Class 1E Bus During Operation.</p> <p>Addition :</p> <p>Relocation of a portion of Q032.106 response to FSAR text in preparation for the USAR.</p> <p>Change Request Number : SA-92-131.2</p> <p>Commitment Register Number :</p> <p>Related SER : 7.4 SSER :22 7.4</p> <p>SER/SSER Impact : No</p>
Table 7.5-7A	<p>4 See Sheet No(s) :1</p> <p>Changes notation from "ERFCS" to "PCS" under the column "CR Displays" corresponding to control rod position indication.</p> <p>Editorial :</p> <p>This is an editorial change to identify the correct abbreviation to indicate as Plant Computer System as a result of the installation of new computer system.</p> <p>Change Request Number : SA-93-156.5</p> <p>Commitment Register Number :</p> <p>Related SER : 8.3 SSER :22 8.3</p> <p>SER/SSER Impact : No</p>
7.6-2	<p>4 See Sheet No(s) :3</p> <p>Adds information on the operation of the inverter system and its automatic transfer capability.</p> <p>Addition :</p> <p>Relocation of the response to Q032.53 to FSAR text in preparation for the USAR.</p> <p>Change Request Number : SA-92-105.2</p> <p>Commitment Register Number :</p> <p>Related SER : 8.3.1 SSER :22 8.3.1</p> <p>SER/SSER Impact : No</p>
7.6-23	<p>4 Adds reference to Section 6.3 for information on RWST depletion due to injection and changeover to recirculation mode.</p> <p>Addition :</p> <p>Relocation of a portion of Q212.140 response to FSAR text in preparation for the USAR.</p> <p>Change Request Number : SA-92-193.15</p> <p>Commitment Register Number :</p> <p>Related SER : 6.3.2 SSER : 7.6.3</p> <p>SER/SSER Impact : No</p>
7.6-23	<p>4 Adds information on the uncertainty band of the RWST</p>

FSAR Page
(as amended)

Group Description

"empty" level, and clarifies sentence stating that the RWST empty level alarm is provided to the operator to communicate the need to initiate switchover of the containment spray pumps to the recirculation mode.

Addition :

Relocation of a portion of Q212.140 response to FSAR text in preparation for the USAR.

Change Request Number : SA-92-193.16

Commitment Register Number : X1-0959

Related SER : 6.3.2 SSER : 7.6.3

SER/SSER Impact : No

7.7-9

4

Adds information on the four section excore detectors and their calibration.

addn new page labled 9A to compensate for repagination.

Addition :

Relocation of a portion of Q032.58 response to FSAR text in preparation for the USAR.

Change Request Number : SA-92-109.3

Commitment Register Number : RE-0218

Related SER : 7.7 SSER :22 7.7

SER/SSER Impact : No

8.2-10

4

Adds information on the routing of certain bus ducts and the requirement for separate independent circuits to onsite distribution systems.

Addition :

Relocation of Q040.107 response to FSAR text in preparation for the USAR.

Change Request Number : SA-92-175.2

Commitment Register Number :

Related SER : 8.4.4 SSER : 8.4.6

SER/SSER Impact : No

8.3-4

4

See Sheet No(s) :5

Adds manufacturers and model numbers for the diesel engine and generator.

Addition :

Relocation of a portion of Q040.115 response to FSAR text in preparation for the USAR.

Change Request Number : SA-92-180.5

Commitment Register Number :

Related SER : 8.3.1 SSER :22 8.3.1

SER/SSER Impact : No

8.3-8

4

Adds reference within text to new FSAR Figure 8.3-19, Excitation Characteristic Curve.

Editorial :

Editorial, simply connects figure with applicable text.

Change Request Number : SA-92-180.7

FSAR Page
(as amended)

Group Description

		Commitment Register Number :
		Related SER : 8.3.1 SSER :22 8.3.1
		SER/SSER Impact : No
8.3-13	4	Adds the following sentence: The transfer capabilities of the source feeders to the emergency busses were tested in the Startup Program as described in Table 14.2-2, AC Power Distribution Test Summary.
		Addition :
		Relocation of a portion of the response to Q423.18 to FSAR text in preparation for the USAR.
		Change Request Number : SA-92-541.2
		Commitment Register Number : X1-0859
		Related SER : 8.3.1 SSER : 14
		SER/SSER Impact : No
8.3-13	4	See Sheet No(s) :14
		Adds information to enhance the description of sequencers and their purpose.
		Addition :
		Relocation of a portion of Q040.40 response to FSAR text in preparation for the USAR.
		Change Request Number : SA-92-152.2
		Commitment Register Number :
		Related SER : 8.4.7 SSER :22 8.4.7
		SER/SSER Impact : No
8.3-13	4	See Sheet No(s) :14
		Expands "safeguards sequencer cabinets" to "solid-state safeguards sequencer (SSSS) cabinets". Adds information on the physical location and power supply of the SSSS.
		Addition :
		Relocation of a portion of Q032.100 response to FSAR text in preparation for the USAR.
		Change Request Number : SA-92-126.6
		Commitment Register Number :
		Related SER : 8.4.7 SSER :22 8.4.7
		SER/SSER Impact : No
8.3-14	4	Adds information on the operation of the solid-state safeguards sequencer (SSSS).
		Addition :
		Relocation of a portion of Q032.100 response to FSAR text in preparation for the USAR.
		Change Request Number : SA-92-126.7
		Commitment Register Number :
		Related SER : 8.4.7 SSER :22 8.4.7
		SER/SSER Impact : No
8.3-14	4	See Sheet No(s) :15
		Adds information on the operation and testing of

FSAR Page
(as amended)

Group Description

sequencers.

Addition :

Relocation of a portion of Q040.40 response to FSAR
text in preparation for the USAR.

Change Request Number : SA-92-152.3

Commitment Register Number :

Related SER : 8.4.7 SSER :22 8.4.7

SER/SSER Impact : No

8.3-15

4 See Sheet No(s) :16

Adds information on manual and automatic testing of
the solid-state safeguards sequencers (SSSS).

Addition :

Relocation of a portion of Q040.68 response to FSAR
text in preparation for the USAR.

Change Request Number : SA-92-126.8

Commitment Register Number :

Related SER : 8.4.7 SSER :22 8.4.7

SER/SSER Impact : No

8.3-16

4 Replaces "In the unlikely event of a DBA" with "In
the event of a safety injection actuation".

Clarification :

Clarifies the discussion based on information
contained within the response to Q032.100.

Change Request Number : SA-92-126.9

Commitment Register Number :

Related SER : 8.4.7 SSER :22 8.4.7

SER/SSER Impact : No

8.3-16

4 See Sheet No(s) :17

Adds information on the safety injection mode logic.

Addition :

Relocation of a portion of Q032.100 response to FSAR
text in preparation for the USAR.

Change Request Number : SA-92-126.10

Commitment Register Number :

Related SER : 8.4.7 SSER :22 8.4.7

SER/SSER Impact : No

8.3-17

4 Replaces "If both offsite sources are lost" with "If
both offsite sources are lost (blackout)".

Clarification :

Clarifies the discussion based on information
contained within the response to Q032.100.

Change Request Number : SA-92-126.11

Commitment Register Number :

Related SER : 8.4.7 SSER :22 8.4.7

SER/SSER Impact : No

8.3-18

4 Adds information on the blackout mode logic.

Addition :

Relocation of a portion of Q032.100 response to FSAR

FSAR Page
(as amended)

Group Description

- text in preparation for the USAR.
Change Request Number : SA-92-126.12
Commitment Register Number :
Related SER : 8.4.7 SSER :22 8.4.7
SER/SSER Impact : No
- 8.3-19 4 Adds information on the logic of a safety injection plus blackout.
Addition :
Relocation of a portion of Q032.100 response to FSAR text in preparation for the USAR.
Change Request Number : SA-92-126.13
Commitment Register Number :
Related SER : 8.4.7 SSER :22 8.4.7
SER/SSER Impact : No
- 8.3-38 4 Adds information on the voltage relay device which provides a means of detection of a ground fault.
Addition :
Relocation of a portion of Q040.118 response to FSAR text in preparation for the USAR.
Change Request Number : SA-92-182.2
Commitment Register Number :
Related SER : 8.3.1 SSER :22 8.3.1
SER/SSER Impact : No
- 8.3-44 4 Adds information on the review of Class 1E and non-Class 1E busses supplying power to safety and non-safety-related I&C systems which could affect the ability to achieve cold shutdown.
Addition :
Relocation of a portion of Q032.106 response to FSAR text in preparation for the USAR.
Change Request Number : SA-92-131.3
Commitment Register Number : OP-0294
Related SER : 8.3.1 SSER :22 8.3.1
SER/SSER Impact : No
- 8.3-45 4 Under "Compliance with GDC 18", adds the following sentence: Testing capability for solid-state safeguards sequencers (SSSS) is discussed in Section 8.3.1.1.5.3.
Addition :
The sentence added simply connects the information in Section 8.3.1.2.1 with related information in Section 8.3.1.1.5.3.
Change Request Number : SA-92-126.14
Commitment Register Number :
Related SER : 8.4.7 SSER :22 8.4.7
SER/SSER Impact : No
- 8.3-62 4 Adds descriptive information on the diesel generator neutral ground system, specifically the limitation

FSAR Page
(as amended)

Group Description

of ground fault current and means of detection of a ground fault.

Addition :

Relocation of a portion of Q040.118 response to FSAR text in preparation for the USAR.

Change Request Number : SA-92-182.3

Commitment Register Number :

Related SER : 8.3.1 SSER :22 8.3.1

SER/SSER Impact : No

8.3-62

4

Adds information on system response and alarms associated with a ground fault.

Addition :

Relocation of a portion of Q040.118 response to FSAR text in preparation for the USAR.

Change Request Number : SA-92-182.4

Commitment Register Number :

Related SER : 8.3.1 SSER :22 8.3.1

SER/SSER Impact : No

Figure 8.3-2

3

See Sheet No(s) :3

Changes the rating of the lightning arrestor on the HV side of the main transformer 1MT01 from 300KV to 276KV and the transformer 1MT01 HV bushing rating to 1300KV.

Update :

The main transformer is replaced by a new transformer which has bushing with a different rating and a replacement is made with a suitable lightning arrestor on the HV side of the transformer.

Change Request Number : SA-93-120.1

Commitment Register Number :

Related SER : 8.3 SSER :22 8.3

SER/SSER Impact : No

Figure 8.3-5

2

See Sheet No(s) :1 and 2

Adds transducers A-XD-2/1PCPX1, -2/1PCPX3, -2/1PCPX2 and -2/1PCPX4 as part of the respective Reactor Coolant Pump 11, 13, 12 and 14 signal circuits to show the pump current signals to the new Plant Computer System..

Addition :

The new Plant Computer System configuration is capable of monitoring these pump currents.

Change Request Number : SA-93-156.1

Commitment Register Number :

Related SER : 8.3 SSER :22 8.3

SER/SSER Impact : No

Figure 8.3-6

2

See Sheet No(s) :1 and 2

Revises Auxiliary Feedwater Pump 11 and 12 signal circuits to show the pump current signals to the new

FSAR Page
 (as amended)

Group Description

Plant Computer System.

Addition :

See justification for the change to Figure 8.3-5
 (SA-93-156.1).

Change Request Number : SA-93-156.2

Commitment Register Number :

Related SER : 8.3 SSER :22 8.3

SER/SSER Impact : No

Figure 8.3-15B

2

See Sheet No(s) :1

Changes the one line diagram and the legend to
 indicate the installed configuration of circuit No.1
 of panel 1EC5 to show cable splice per 2323-ES-100.

Update :

The cable E0105523 installation included proper
 cable splice.

Change Request Number : SA-93-156.3

Commitment Register Number :

Related SER : 8.3 SSER :22 8.3

SER/SSER Impact : No

Figure 8.3-15C

2

Revises description of circuits 3 and 12 in panel
 1C5 and circuits 7 and 12 in panel 1C6 to reflect
 correct field condition.

Revision :

One line diagram is revised to match the correct
 installed configuration.

Change Request Number : SA-93-156.4

Commitment Register Number :

Related SER : 8.3 SSER :22 8.3

SER/SSER Impact : No

Figure 8.3-19

4

Adds Figure 8.3-19, Excitation Characteristic Curve.
 Q&R Incorporation :

Relocation of a portion of Q040.115 response to FSAR
 text in preparation for the USAR.

Change Request Number : SA-92-180.8

Commitment Register Number :

Related SER : 8.3.1 SSER :22 8.3.1

SER/SSER Impact : No

8B-i

2

See Sheet No(s) :8B-1

Adds Appendix 8B to FSAK Section 8, to briefly
 describe the capability of CPSES Units 1 and 2, for
 coping with a Station Blackout in accordance with
 10CFR50.63, following guidance provided by RG 1.155.

Addition :

The CPSES commitment to RG 1.155 and the dual unit
 Station Blackout submittal to the NRC which has been
 evaluated and accepted by the NRC Staff per SSER 26,
 is the basis for addition of Appendix 8B to the
 FSAR.

Change Request Number : SA-93-148.2

FSAR Page
 (as amended)

Group Description

Commitment Register Number :
 Related SER : SSER :26 8.4.10
 SER/SSER Impact : No

9.1-18 4 Adds information on the performance of periodic chemical analyses and operational surveillance.
 Addition :
 Relocation of a portion of Q281.2 response to FSAR text in preparation for the USAR.
 Change Request Number : SA-92-258.2
 Commitment Register Number : CE-0098-001/OP-0319-001
 Related SER : 9.1.3 SSER :
 SER/SSER Impact : No

9.1-18 4 Revises the first sentence in Section 9.1.3.4 to read: "Active components of this system are in either continuous or intermittent use during normal plant operation. Periodic visual inspections and preventive maintenance are conducted as necessary." The phrase which connected these two sentences: "no additional periodic tests are required" is deleted.
 Clarification :
 Clarification reflects the addition of a discussion of the performance of periodic chemical analyses and operational surveillance on the spent fuel pool.
 Change Request Number : SA-92-258.3
 Commitment Register Number :
 Related SER : 9.1.3 SSER :
 SER/SSER Impact : No

9.1-21 2 Clarifies description of fuel handling system.
 Clarification :
 These changes provide consistency within the FSAR.
 Change Request Number : SA-93-157.2
 Commitment Register Number :
 Related SER : 9.1.4 SSER :1 9.1.4
 SER/SSER Impact : No

9.1-22 2 Clarifies description of fuel handling system.
 Clarification :
 These changes provide consistency within the FSAR.
 Change Request Number : SA-93-157.3
 Commitment Register Number :
 Related SER : 9.1.4 SSER :1 9.1.4
 SER/SSER Impact : No

9.1-31 2 Clarifies description of the fuel handling system.
 Clarification :
 These changes provide consistency within the FSAR.
 Change Request Number : SA-93-157.4
 Commitment Register Number :
 Related SER : 9.1.4 SSER :1 9.1.4
 SER/SSER Impact : No

FSAR Page
(as amended)

Group Description

- 9.1-34 2 Clarifies description of the fuel handling system.
Clarification :
 This change provides consistency within the FSAR.
Change Request Number : SA-93-157.5
Commitment Register Number :
Related SER : 9.1.4 SSER :1 9.1.4
SER/SSER Impact : No
- 9.1-34 3 Updates discussion regarding use of refueling gates
during movement of spent fuel in the transfer canal.
Update :
 This changes reflects the configuration evaluated by
the 50.59 Safety Evaluation 93-117 which takes no
credit for the pool no. 2 gate to ensure a safety
function. If an adjacent spent fuel pool (not the
one involved in the spent fuel transfer) is below
its normal operating level and is isolated by its
gate from the canal, the level of water in the pool
is maintained such that any failure of the gate is
bounded by existing analyses and limits. Failure of
the refueling gate would not result in loss of spent
fuel cooling or in excessive radiation levels from a
fuel assembly in transit.
Change Request Number : SA-93-112.1
Commitment Register Number :
Related SER : 9.1.4 SSER :22 9.1.4
SER/SSER Impact : No
- 9.1-34 3 Adds description of refueling gate seals and their
interface with the Compressed Air System.
Clarification :
 Refueling gates are provided with seals inflated by
the Compressed Air System (CAS) connections shown on
Figures 9.3-1 and 9.3-2. The CAS is non-safety
related and non-seismic Category I. The design of
the gates is acceptable because they do not require
a continuous supply of air and are intended to be
disconnected when in use to provide the seismic
Category I functions. This changes clarifies and
provides consistency in the FSAR which documents the
NNS design of the CAS and the safety-related design
of the gates. A review of industry operating
experience (e.g. IN 88-92 and Supplement 1)
indicates this clarification is needed.
Change Request Number : SA-93-166.1
Commitment Register Number :
Related SER : 9.1.4 SSER :22 9.1.4
SER/SSER Impact : No
- 9.1-48 2 Clarifies description of fuel handling system.
Clarification :
 This change provides consistency with the FSAR.

FSAR Page
 (as amended)

Group Description

		Change Request Number : SA-93-157.6 Commitment Register Number : Related SER : 9.1.4 SSER :1 9.1.4 SER/SSER Impact : No
9.1-49	2	Clarifies description of the fuel handling system. Clarification : These changes provide consistency within the FSAR. Change Request Number : SA-93-157.7 Commitment Register Number : Related SER : 9.1.4 SSER :1 9.1.4 SER/SSER Impact : No
Figure 9.1-13	3	See Sheet No(s) :Sheet 3 Clarifies figure to indicate that spent fuel pool are shared between Uni's 1 and 2. Clarification : This change is consistent with the discussion in FSAR Section 9.1.2.2 and with the safety analysis of spent fuel storage. Change Request Number : SA-93-166.2 Commitment Register Number : Related SER : 9.1.4 SSER :22 9.1.4 SER/SSER Impact : No
9.2-4	3	Remove the inconsistency regarding the cross connection of Station Service Water System between two Units. Editorial : Editorial Change to delete the inconsistent requirement exists for the Station Service Water System, which is consistent with FSAR Section 9.2.1.5. Change Request Number : SA-94-10. Commitment Register Number : Related SER : 9.2.1. SSER :23 9.2.1 SER/SSER Impact : No
9.2-25	4	See Sheet No(s) :26,27 Adds information on the consequences of, and response time to, a loss of component cooling water to the reactor coolant pumps. Addition : Relocation of a portion of Q010.3 response to FSAR text in preparation for the USAR. Change Request Number : SA-92-9.2 Commitment Register Number : Related SER : 9.2.2 SSER :22 9.2.2 SER/SSER Impact : No
9.2-27	4	Adds information on the consequences of the loss of component cooling water flow to RHR pumps. Addition :

FSAR Page
(as amended)

Group Description

- Relocation of a portion of Q212.33 response to FSAR text in preparation for the USAR.
Change Request Number : SA-92-386.5
Commitment Register Number :
Related SER : 9.2.2 SSER :22 9.2.2
SER/SSER Impact : No
- 9.2-31 4 Adds information on the automatic loading of CCW pumps onto the emergency diesel generators during blackout conditions.
Addition :
Relocation of a portion of Q212.33 response to FSAR text in preparation for the USAR.
Change Request Number : SA-92-386.6
Commitment Register Number : IC-0087
Related SER : 9.2.2 SSER :22 9.2.2
SER/SSER Impact : No
- 9.2-35 2 Add discussion to reflect the addition (via plant design modification) of a radiation monitor in the common discharge line of the Auxiliary Building (AB) Sumps 3 and 11, the Diesel Generator (DG) sumps, and the Component Cooling Water (CCW) Drain Tanks.
Addition :
The addition of the radiation monitor provides the capability for continuous discharge to the Low Volume Waste (LVW) System with a discharge diversion to the Co-Current Waste System upon a high radiation signal. The addition of the radiation monitor eliminates the batch processing and is consistent with the methodology given in the Offsite Dose Calculation Manual (ODCM). The addition of the radiation monitor has no potential safety impact on the safety functions of the affected systems.
Change Request Number : SA-92-687.1
Commitment Register Number :
Related SER : 9.2.2 SSER :25 9.2.2
SER/SSER Impact : No
- 9.2-36 3 See Sheet No(s) :37, 55 & 56
Adds a discussion to Section 9.2.3.2 and new Section 9.2.7.6 regarding the installation of three new trains to the Water Treatment System with total capacity of 420 GPM.
Revision :
A new Water Treatment System and supporting components are being installed. The existing Water Treatment System has had a poor service record with respect to reliability, quality, and the quantity of water produced. It is projected that the current system will be unable to support the long-term demands of two operating units. Installation of the new Water Treatment System involves preparation of

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Group Description

the existing water treatment facility by removal of existing Reacta-Pak units and associated components, enlargement of the building, installation of new supporting lines for the new system, and modifications on various water storage tanks and the system transformer.

Change Request Number : SA-92-829.1
Commitment Register Number :
Related SER : 9.2.3 SSER :
SER/SSER Impact : No

9.2-60

- 3 Add the Auxiliary Building Sump #3 to the list of areas which can divert low level radioactive waste to the Co-Current Waste treatment facilities. Also, add note that there is one Component Cooling Water (CCW) Drain Tank per unit.

Addition :

See Justification for the change to page 9.2-35 (SA-92-687.1).

Change Request Number : SA-92-687.2
Commitment Register Number :
Related SER : 9.2 SSER :
SER/SSER Impact : No

Figure 9.2-1

- 3 See Sheet No(s) :01
Adds Note 19 to Figure 9.2-1, Sheet 1 to indicate that check valves 1SW-0014 and 1SW-0048 (Zone B2) had the valve internals removed.

Revision :

These check valves serve no function in the current design and operating configuration and can be removed without impacting system operation. These valves are non-nuclear safety related and perform no safety functions.

Change Request Number : SA-93-89.1
Commitment Register Number :
Related SER : 9.2 SSER :22 9.2
SER/SSER Impact : No

Figure 9.2-1

- 3 See Sheet No(s) :01
Adds Note 19 to Figure 9.2-1, Sheet 1 to indicate that check valves 1SW-0084 and 1SW-0085 (Zone F3) had the valve internals removed.

Revision :

Check valves 1SW-0084 and 1SW-0085 are not required to perform an isolation function under any system operating mode. These check valves were intended to prevent backflow when valve 1SW-0077 was open and ensure isolation of water injection to the idle SSW pump bearings. Since 1SW-0077 is to be maintained as a locked closed valve, these check valves are no longer needed.

Change Request Number : SA-93-90.2

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Commitment Register Number :
 Related SER : 9.2 SSER :22 9.2
 SER/SSER Impact : No

- | | | |
|---------------|---|---|
| Figure 9.2-1 | 3 | See Sheet No(s) :02
Adds Note 3 to Figure 9.2-1, Sheet 2 to indicate the
internals of check valves 1SW-0016 (Zone C3) and
1SW-0017 (Zone C5) were removed.
Revision :
There are no operating scenarios under which these
valves are required to be closed. Removal of the
valve internals will not affect system operation.
Change Request Number : SA-93-91.2
Commitment Register Number :
Related SER : 9.2 SSER :22 9.2
SER/SSER Impact : No |
| Figure 9.2-3 | 3 | See Sheet No(s) :08
Adds Note 8 to Figure 9.2-3, Sheet 8 to indicate
that check valve 1CC-0317 (Zone E6) had its valve
internals removed.
Revision :
This check valve is a passive valve with no
operating scenarios under which it is required to
close. Any pipe break upstream of the check valve
is mitigated by existing automatic loop isolation
valves.
Change Request Number : SA-93-87.1
Commitment Register Number :
Related SER : 9.2.2 SSER :22 9.2.2
SER/SSER Impact : No |
| Figure 9.2-3 | 3 | See Sheet No(s) :10
Adds Note 5 to Figure 9.2-3, Sheet 10 to indicate
that check valve 1CC-0602 (Zone B1) had its valve
internals removed.
Revision :
This check valve is a passive valve with no
operating scenarios under which it is required to
close. Any pipe break upstream of the check valve
is mitigated by existing automatic loop isolation
valves.
Change Request Number : SA-93-88.1
Commitment Register Number :
Related SER : 9.2 SSER :22 9.2
SER/SSER Impact : No |
| Figure 9.2-4A | 3 | See Sheet No(s) :01 and 07
Adds new boundary to reflect the installation of the
new Water Treatment System.
Revision :
See Justification for the change to page 9.2-36
(SA-92-829.1). |

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(as amended)

Group Description

Change Request Number : SA-92-829.2
Commitment Register Number :
Related SER : 9.2.3 SSER :
SER/SSER Impact : No

Figure 9.2-4A

4

See Sheet No(s) :02
Correct the interface arrow for exhaust of forced draft degasifier in Surface Water Pre-treatment System to read as 'Turbine Building Ventilation, Fig.9.4-3, Loc. A-4'.
Editorial :
Editorial change: Change the interface arrow to read existing as-built configuration.
Change Request Number : SA-93-115.1
Commitment Register Number :
Related SER : 9.2 SSER :
SER/SSER Impact : No

Figure 9.2-4A

3

See Sheet No(s) :03
Removes valves between the Filtered Water Transfer Pump and the Filter Water Storage Tank (Location zone F-2) to support the installation of the new Water Treatment System.
Revision :
See Justification for the change to page 9.2-36 (SA-92-829.1).
Change Request Number : SA-92-829.5
Commitment Register Number :
Related SER : 9.2.3 SSER :
SER/SSER Impact : No

Figure 9.2-4A

3

See Sheet No(s) :03
Adds Filter Water Storage Tank at Location zone A-3.
Revision :
See Justification for the change to page 9.2-36 (SA-92-829.1).
Change Request Number : SA-92-829.6
Commitment Register Number :
Related SER : 9.2.3 SSER :
SER/SSER Impact : No

Figure 9.2-4A

3

See Sheet No(s) :05
Adds first and second RO system connection to R.O product storage tank and piping to R.O water forwarding pumps. Adds piping from filtered water storage tank to filtered water forwarding pumps. Also, adds level instrumentation and misc interface connections to filtered water storage tank.
Revision :
See Justification for the change to page 9.2-36 (SA-92-829.1).
Change Request Number : SA-92-829.9
Commitment Register Number :

FSAR Page (as amended)	Group Description
	Related SER : 9.2.3 SSER : SER/SSER Impact : No
Figure 9.2-4A	3 See Sheet No(s) :06 Adds the Acid Regeneration Skid and piping (Location zones C/G-2) and the Caustic Regeneration Skid and piping (Location zones E/C-5). Correction : See justification for the change to page 9.2-36 (SA-92-829.1). Change Request Number : SA-92-829.3 Commitment Register Number : Related SER : 9.2.3 SSER : SER/SSER Impact : No
Figure 9.2-5	3 See Sheet No(s) :01 Adds Surface Water Pre-Treatment System, future Demineralized Water Storage Tank, and associated piping. Revision : See Justification for the change to page 9.2-36 (SA-92-829.1). Change Request Number : SA-92-829.4 Commitment Register Number : Related SER : 9.2.3 SSER : SER/SSER Impact : No
Figure 9.2-15	3 See Sheet No(s) :01 Add new Radiation Monitor, X-RE-5251A. Addition : See Justification for the change to page 9.2-35 (SA-92-687.1). Change Request Number : SA-92-687.10 Commitment Register Number : Related SER : 9.2 SSER : SER/SSER Impact : No
Figure 9.2-15	3 See Sheet No(s) :1 Revise FSAR figure to reflect completion of plant design modification to the Waste Water Management System. Revision : See justification for the change to Figure 9.2-16, Sheets 1 & 2 (SA-93-036.1). Change Request Number : SA-93-36.2 Commitment Register Number : Related SER : 9.3.3 SSER : SER/SSER Impact : No
Figure 9.2-16	3 See Sheet No(s) :1,2 Revise FSAR figure to reflect completion of plant design modification to the Waste Water Management System.

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Group Description

Revision :

Plant design modification DM-91-054 implemented improvements for the Waste Water Management System. This modification divides the previous Total Retention Pond (TRP) into two new 1.75 million gallon settling ponds, a 6.7 million gallon emergency/overflow pond, and a one million gallon metal cleaning waste (MCW) pond. The two 1.75 million gallon settling ponds and the 6.7 million gallon emergency/overflow pond are interconnected and used for treating low volume wastes (LVW). The MCW Pond is isolated from the other three ponds. The modification installed piping and valves to interconnect the new LVW ponds and tie into the existing waste water management system inlet and discharge piping. A recirculation system with taps for chemical feed injection was installed for chemical treatment of the ponds. The modification was performed to install synthetic liners to meet environmental requirements and to enable more efficient wastewater treatment. Phase IV of DM-91-054 added a Condensate Polisher Decant Basin and Clarifier Sludge Decant Basin to figure 9.2-16, Sheet 2.

Change Request Number : SA-93-36.1

Commitment Register Number :

Related SER : SSER :

SER/SSER Impact : No

9.3-1

3

Adds statement that the Compressed Air System (CAS) also provides suitable air to inflate the seals on the refueling gates.

Clarification :

This change describes another function the CAS supports in accordance with R.G. 1.70 Revision 2 and makes the FSAR consistent with Figures 9.3-1 and 9.3-2 and Section 9.3.1.1(1.i).

Change Request Number : SA-93-166.3

Commitment Register Number :

Related SER : 9.3.1 SSER :22 9.3.1

SER/SSER Impact : No

9.3-7

4

Revises figure reference in Section 9.3.1.2 from "Figure 9.3-1 (Sheets 1 through 4)" to "Figures 9.3-1 and 9.3-2".

Editorial :

Editorial correction to match figures.

Change Request Number : SA-93-166.4

Commitment Register Number :

Related SER : 9.3.1 SSER :22 9.3.1

SER/SSER Impact : No

9.3-7

3

Adds statement in Section 9.3.1.2 describing the

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interface between the Compressed Air System and the refueling gates in the Fuel Building.

Clarification :

This change clarifies the FSAR and is consistent with Figure 9.3-1 (Sheet 12) and is in accordance with R.G. 1.70, Revision 2.

Change Request Number : SA-93-166.5

Commitment Register Number :

Related SER : 9.3.1 SSER :22 9.3.1

SER/SSER Impact : No

9.3-9

3

Adds statement in Section 9.3.1.2 to describe the interface between the Compressed Air System and the refueling gate in each containment building.

Clarification :

This change clarifies the FSAR and is consistent with Figure 9.3-2 (Sheet2) and is in accordance with R.G. 1.70, Revision 2.

Change Request Number : SA-93-166.6

Commitment Register Number :

Related SER : 9.3.1 SSER :22 9.3.1

SER/SSER Impact : No

9.3-11

3

Adds statement in FSAR Section 9.3.1.3 to describe how the failure of the Compressed Air System does not affect the safety-related function of the refueling gates.

Clarification :

R.G. 1.70, Revision 2, requires a failure mode and effect analysis of the Compressed Air System (CAS) with respect to its connected equipment. This is a clarification to explain why the CAS failures do not affect the Seismic Category I refueling gates. This ensures the design reflected on the FSAR Figures and in the General Design Criteria and R.G. commitments are also included in the appropriated test for the CAS.

Change Request Number : SA-93-166.7

Commitment Register Number :

Related SER : 9.3.1 SSER :22 9.3.1

SER/SSER Impact : No

9.3-14

4

Adds information on methods to be used to ensure representative samples.

Addition :

Relocation of a portion of Q281.3 response to FSAR text in preparation for the USAR.

Change Request Number : SA-92-259.2

Commitment Register Number :

Related SER : 9.3.2 SSER :22 9.3.2

SER/SSER Impact : No

9.3-14

4

Adds references to Figures and Tables which depict

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		<p>local liquid grab sample points and provide related component data.</p> <p>Addition :</p> <p>Relocation of a portion of Q281.3 response to FSAR text in preparation for the USAR.</p> <p>Change Request Number : SA-92-259.3</p> <p>Commitment Register Number :</p> <p>Related SER : 9.3.2 SSER :22 9.3.2</p> <p>SER/SSER Impact : No</p>
9.3-18	4	<p>Adds information on the flow restriction relied upon to limit reactor coolant loss from a sample line rupture.</p> <p>Addition :</p> <p>Relocation of a portion of Q281.3 response to FSAR text in preparation for the USAR.</p> <p>Change Request Number : SA-92-259.4</p> <p>Commitment Register Number :</p> <p>Related SER : 9.3.2 SSER :22 9.3.2</p> <p>SER/SSER Impact : No</p>
9.3-25	3	<p>Add discussion regarding discharge alignment for Auxiliary Building Sump Nos. 3 and 10.</p> <p>Addition :</p> <p>See Justification for the change to page 9.2-35 (SA-92-687.1).</p> <p>Change Request Number : SA-92-687.3</p> <p>Commitment Register Number :</p> <p>Related SER : 9.3.3 SSER :6 9.3.3</p> <p>SER/SSER Impact : No</p>
9.3-28	4	<p>Adds information concerning ability of compartments housing safety-related components to accommodate a design basis flood and impact of safe shutdown earthquake on operability of backwater valves.</p> <p>Addition :</p> <p>Relocation of a portion of Q010.13 & Q010.21 responses to FSAR text in preparation for the USAR.</p> <p>Change Request Number : SA-92-17.4</p> <p>Commitment Register Number :</p> <p>Related SER : 9.3.3 SSER :06 9.3.3</p> <p>SER/SSER Impact : No</p>
9.3-37	4	<p>See Sheet No(s) :38</p> <p>Adds information on the consequences of the loss of Chemical & Volume Control System water flow to the Reactor Coolant Pumps.</p> <p>Addition :</p> <p>Relocation of a portion of Q212.82 response to FSAR text in preparation for the USAR.</p> <p>Change Request Number : SA-92-50.3</p> <p>Commitment Register Number :</p> <p>Related SER : 9.3.4 SSER :</p>

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SER/SSER Impact : No

9.3-38a

3

See Sheet No(s) : 44, 55, 56 & 76
Revises the description of the operations and 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 currently include a difference between Unit 1 and Unit 2 because the modifications are not yet complete for Unit 2. The changes to Unit 1 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. The description also indicates that the "VCT" position is the normal mode of operation for the three-way valve for both units.
Revision :
These 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). Although the Boron Dilution Mitigation System (BDMS) has been removed from the CPSES Technical Specifications, the flux doubling instrumentation and alarms are retained as backup indication of a potential boron dilution event and thus it continues to be described in the FSAR.

Change Request Number : SA-93-124.
Commitment Register Number :
Related SER : 9.3 SSER :
SER/SSER Impact : No

9.3-51

4

Adds information on the sample point located at the boric acid transfer pump suction.
Addition :
Relocation of a portion of Q281.3 response to FSAR text in preparation for the USAR.
Change Request Number : SA-92-259.5
Commitment Register Number : X2-0122
Related SER : 9.3.2 SSER : 22 9.3.2
SER/SSER Impact : No

9.3-58

4

Adds information which connects the use of the agitator by the boric acid batching tank with the ability to provide a representative sample.
Addition :
Relocation of a portion of Q281.3 response to FSAR text in preparation for the USAR.
Change Request Number : SA-92-259.6
Commitment Register Number :

FSAR Page (as amended)		Group Description
		Related SER : 9.3.2 SSER :22 9.3.2 SER/SSER Impact : No
Table 9.3-5	3	See Sheet No(s) :1 Updates table to include VCT level alarms associated with boron dilution event analysis. Revision : See justification provided for page 9.3-38a. Change Request Number : SA-93-124. Commitment Register Number : Related SER : 9.3 SSER : SER/SSER Impact : No
Figure 9.3-1	3	See Sheet No(s) :03 Adds new instrument and service routings at Location zones E/F-4). Revision : See Justification for the change to page 9.2-36 (SA-92-829.1). Change Request Number : SA-92-829.7 Commitment Register Number : Related SER : 9.3.1 SSER :23 9.3.1 SER/SSER Impact : No
Figure 9.3-1	4	See Sheet No(s) :Sheet 12 Revise figure to correct and clarify the refueling gate / Compressed Air System interface and to indicate that the spent fuel pools are shared between Units 1 and 2. Editorial : Pool No. 1 and Pool No. 2 each have a gate with two independent seals. A single removable gate with a single seal is provided for three locations in the transfer canal. This change clarifies the number of gates and their functions. Also, FSAR Section 9.1.2.2 describes the pools as being shared. Change Request Number : SA-93-166.8 Commitment Register Number : Related SER : 9.3.1 SSER :22 9.3.1 SER/SSER Impact : No
Figure 9.3-2	3	See Sheet No(s) :01 Adds new instrument and service air routings at Location zone F-2. Revision : See Justification for the change to page 9.2-36 (SA-92-829.1). Change Request Number : SA-92-829.8 Commitment Register Number : Related SER : 9.3.1 SSER :23 9.3.1 SER/SSER Impact : No
Figure 9.3-2	3	See Sheet No(s) :02

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Change 2 ball valves to globe valve, one globe valve to a throttle valve and add 'hansen quick disconnect' to the type of fitting for the Compressed Air System air supply to the refueling cavity lift gate.

Correction :

The additional changes reflects the improvement in the existing Compressed Air System air supply to the refueling cavity lift gate and also represent the existing as-built conditions.

Change Request Number : SA-94-1.

Commitment Register Number :

Related SER : 9.3.1 SSER :23 9.3.1

SER/SSER Impact : No

Figure 9.3-2

4

See Sheet No(s) :Sheet 2

Revises figure to indicate the interface between the Compressed Air System and the refueling gate in each containment building.

Editorial :

This change indicates the interface between the CAS and the refueling gate in accordance with R.G. 1.70, Revision 2.

Change Request Number : SA-93-166.9

Commitment Register Number :

Related SER : 9.3.1 SSER :22 9.3.1

SER/SSER Impact : No

Figure 9.3-7

3

See Sheet No(s) :01

Add CCW drain header and associate piping to facilitate continuous discharge capability to the Low Volume Waste System (Location A/B/C-4). Delete 3" line that provided truck connection (Location C-3).

Addition :

See Justification for the change to page 9.2-35 (SA-92-687.1).

Change Request Number : SA-92-687.11

Commitment Register Number :

Related SER : 9.3.3 SSER :

SER/SSER Impact : No

Figure 9.3-8

3

See Sheet No(s) :01

Add new Radiation Monitor and associated components (Location A-6) and AB Sump 3 and associated piping (Location A-5).

Addition :

See Justification for the change to page 9.2-35 (SA-92-687.1).

Change Request Number : SA-92-687.11

Commitment Register Number :

Related SER : 9.3.3 SSER :6 9.3.3

SER/SSER Impact : No

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(as amended)

Group Description

- Figure 9.3-8 4 See Sheet No(s) :01 & 02
Changes Figure 9.3-8, Sheet 1 (Zone D1) and Sheet 2 (Zone E2) to include two new floor drain routings from the tank pits on the turbine deck.
Addition :
The addition of these new drain lines off the turbine deck will insure that drainage or leakage from plant equipment would be routed to the proper place. Revising the piping configuration does not change the facility as described in any license basis documents.
Change Request Number : SA-93-119.1
Commitment Register Number :
Related SER : 9.3 SSER :
SER/SSER Impact : No
- Figure 9.3-8 3 See Sheet No(s) :1
Revise FSAR figure to reflect completion of plant design modification to the Waste Water Management System.
Revision :
See justification for the change to Figure 9.2-16, Sheets 1 & 2 (SA-93-036.1).
Change Request Number : SA-93-36.3
Commitment Register Number :
Related SER : 9.3.3 SSER :
SER/SSER Impact : No
- Figure 9.3-10 4 See Sheet No(s) :3
This change performed under Design Modification (DM) 027 installs 1/2-inch diameter stainless steel tubing on the discharge of a vent valve in the Chemical and Volume Control System (CVCS) for Unit 2 to help minimize the potential for contamination when venting this valve during tests, etc.
Addition :
Venting this valve to radioactive floor drains will help minimize the potential for the spread of radioactive contamination throughout the plant. This change to the FSAR is considered minor, and neither significantly impacts plant operations nor impacts current accident analyses.
Change Request Number : SA-93-162.
Commitment Register Number :
Related SER : SSER :
SER/SSER Impact : No
- Figure 9.3-10 4 See Sheet No(s) :9
Delete "Office and Service area" from the ventilation control room interface arrow.
Editorial :
Editorial change, corrections of interface arrow in

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control room ventilation system.
 Change Request Number : SA-93-163.2
 Commitment Register Number :
 Related SER : 9.3 SSER :
 SER/SSER Impact : No

9.4-26 4 Adds information on the location of exhaust vents and the discharge temperature for the Turbine Building ventilation system.
 Addition :
 Relocation of a portion of Q320.4 response to FSAR text in preparation for the USAR.
 Change Request Number : SA-92-278.2
 Commitment Register Number :
 Related SER : 9.4.4 SSER :22 9.4.4
 SER/SSER Impact : No

Figure 9.4-1 4 See Sheet No(s) :2
 Delete 'Unit 2" and added 'Unit 1" in interface arrow for Chemical and Volume Control System.
 Editorial :
 Editorial Change, corrections on interface with CVCS.
 Change Request Number : SA-93-163.1
 Commitment Register Number :
 Related SER : 9.3,9.4 SSER :
 SER/SSER Impact : No

Figure 9.4-3 3 Correct the Turbine Building HVAC system figure to incorporate the following:
 1. Interface arrow and as-built exhaust duct configuration for the forced draft degasifier in Surface Water Pre-treatment System to read as, 'Forced Draft Degasifier', Fig.9.2-4A, Sh.2; Loc. A-3'.
 2. Delete and remove the exhaust duct and abandon the booster fans CPX-VAFNCL-01 and CPX-VAFNAA-01 for Office and Service Area HVAC System in-place.
 Correction :
 The above changes are made to reflect the following:
 1. To reflect the actual configuration and plant layout of the forced draft degasifier exhaust.
 2. To reflect the as-built configuration and plant layout for Office and Service area HVAC system which has a separate exhaust for this area. The booster fans are abandoned in-place and connecting ducts are removed as per DM 90-067, revision 1.
 Change Request Number : SA-93-115.2
 Commitment Register Number :
 Related SER : 9.4 SSER :22 9.4
 SER/SSER Impact : No

Figure 9.4-6 2 See Sheet No(s) :2

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Revision to Figure 9.4-6 Sheet 2, "Ventilation Containment" in support of the modified penetration.
Addition :

This modification consists of the installation of a weld neck Class 150 flange and blind flange inside Containment and a weld neck Class 150 flange, blind flange, and 3/4-inch test connection outside containment. The revised configuration is shown on FSAR Figure 9.4-6 Sheet 2.

Following the completion of an Integrated Leak Rate Test (ILRT), the blind flange outside containment is to be removed, and depressurization is to be controlled through the operation of associated valve 1LT-0008. The penetration is to be returned to the permanent configuration prior to entering a plant condition where Containment Isolation is required. Calculations were performed to determine that the final configuration is acceptable under accident (LOCA) and seismic conditions. In addition, the penetration configuration during the testing and depressurization stages of the ILRT was evaluated for stress and deadweight loadings, and was found to be acceptable.

In addition, calculations were performed to evaluate the effects of the depressurization on the ILRT duration and the effect of the discharge of the Containment atmosphere into the Safeguards building, determining this flow to be acceptable. This modification is estimated to save in excess of 10 hours in the depressurization time from the previous ILRT.

Change Request Number : SA-93-135.
Commitment Register Number :
Related SER : SSER :
SER/SSER Impact : No

9.4A-1

4

Adds the following sentence: "The environment within containment is controlled by the containment recirculation and cooling system during startup, power operation and hot standby."
Addition :

Relocation of a portion of Q022.8 response to FSAR text in preparation for the USAR.

Change Request Number : SA-92-45.8
Commitment Register Number :
Related SER : 6.2.3 SSER : 22 6.2.3
SER/SSER Impact : No

9.4A-2

4

Adds the following sentence: "The containment preaccess filtration system minimizes the need for containment purging."
Addition :

Relocation of a portion of Q022.8 response to FSAR

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text in preparation for the USAR.
Change Request Number : SA-92-45.5
Commitment Register Number :
Related SER : 6.2.3 SSER :22 6.2.3
SER/SSER Impact : No

9.4A-2 4 Adds paragraph noting that the containment purge system is not used during power operations and not considered in the ECCS backpressure computation.
Addition :
Relocation of a portion of Q022.8 response to FSAR text in preparation for the USAR.
Change Request Number : SA-92-45.6
Commitment Register Number : RE-0216-001
Related SER : 6.2.3 SSER :22 6.2.3
SER/SSER Impact : No

9.4A-3 4 Adds general information on pressure relief system operations and design.
Addition :
Relocation of a portion of Q022.8 & Q022.20 responses to FSAR text in preparation for the USAR.
Change Request Number : SA-92-45.7
Commitment Register Number :
Related SER : 6.2.3 SSER :22 6.2.3
SER/SSER Impact : No

9.4A-7 4 Notes that the containment pressure relief system requires only one penetration.
Addition :
Relocation of a portion of Q022.8 response to FSAR text in preparation for the USAR.
Change Request Number : SA-92-45.9
Commitment Register Number :
Related SER : 6.2.3 SSER :22 6.2.3
SER/SSER Impact : No

9.4A-7 4 Adds discussion of the containment pressure relief line as the only potential leakage path from the containment building during power operation, its manual actuation in response to compartment pressurization, and its effect on pressure calculated during the core reflood transient.
Addition :
Relocation of a portion of Q022.8 response to FSAR text in preparation for the USAR.
Change Request Number : SA-92-45.10
Commitment Register Number :
Related SER : 6.2.3 SSER :22 6.2.3
SER/SSER Impact : No

9.4A-7 4 Revises conditions under which the pressure relief containment isolation valves automatically close,

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and changes the size of the isolation valves from "a maximum size of 18 in." to "are 18 in. in diameter".
Revision :

Relocation of a portion of Q022.8 response to FSAR text in preparation for the USAR.

Change Request Number : SA-92-45.11

Commitment Register Number : NL-2704

Related SER : 6.2.3 SSER :23 6.2.3

SER/SSER Impact : No

9.4A-8

- 4 Revises description of the screen design (Seismic Category I to II) which is placed in the flow path of the containment pressure relief system for protection of the isolation valves from debris.
Revision :
Relocation of a portion of Q022.20 response to FSAR text in preparation for the USAR.
Change Request Number : SA-92-45.12
Commitment Register Number : X1-0760
Related SER : 6.2.3 SSER :22 6.2.3
SER/SSER Impact : No

9.4A-8

- 4 Moves two sentences re: containment pressure relief line penetration to an earlier paragraph within the same section which discusses the pressure relief line.
Editorial :
Editorial enhancement of Section 9.4A.2.6.
Change Request Number : SA-92-45.13
Commitment Register Number :
Related SER : 6.2.3 SSER :
SER/SSER Impact : No

9.4A-8

- 4 Notes that the functional testing of the pressure relief containment isolation valves is accomplished concurrently with other containment ventilation isolation valves, rather than individually, and references Table 6.2.4-2 for information on leak testing of these valves.
Addition :
Relocation of a portion of Q022.20 response to FSAR text in preparation for the USAR.
Change Request Number : SA-92-45.14
Commitment Register Number :
Related SER : 6.2.3 SSER :22 6.2.3
SER/SSER Impact : No

9.4D-1

- 4 Adds information on the discharge temperature and a reference to indoor design conditions for the plant ventilation discharge vent.
Addition :
Relocation of a portion of Q320.4 response to FSAR text in preparation for the USAR.

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		Change Request Number : SA-92-278.3
		Commitment Register Number :
		Related SER : 9.4.5 SSER :22 9.4.5
		SER/SSER Impact : No
9.5-23	4	Adds information on the general configuration of Fire Protection System piping and its design requirements.
		Addition :
		Relocation of a portion of Q010.6 response to FSAR text in preparation for the USAR.
		Change Request Number : SA-92-12.2
		Commitment Register Number : Y6-7602
		Related SER : 9.5.1 SSER :12 9.5.1
		SER/SSER Impact : No
9.5-23	4	Adds discussion of the worst assumed crack in the wet piping of the Fire Protection System.
		Addition :
		Relocation of a portion of Q010.6 response to FSAR text in preparation for the USAR.
		Change Request Number : SA-92-12.3
		Commitment Register Number :
		Related SER : 9.5.1 SSER :12 9.5.1
		SER/SSER Impact : No
9.5-141	4	Adds references to FSAR Sections 1A(B) and 9.5.4.4 to a sentence discussing the sampling and testing of diesel fuel oil.
		Editorial :
		Editorial enhancement, connecting a general statement in Section 9.5.4.2 with the details contained in other sections.
		Change Request Number : SA-92-186.2
		Commitment Register Number :
		Related SER : 9.5.4 SSER :
		SER/SSER Impact : No
9.5-143	4	Add "Reference [43]" and the date of issue of the Standard ASTM D975.
		Editorial :
		Addition reflects the year of issue and also reflects the addition of this reference to the listing at the end of Section 9.5.
		Change Request Number : SA-92-186.3
		Commitment Register Number :
		Related SER : 9.5.4 SSER :
		SER/SSER Impact : No
9.5-147	4	See Sheet No(s) :148
		Adds information on the sampling and testing of diesel fuel oil for the emergency generators.
		Addition :

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Relocation of a portion of Q040.125 response to FSAR
text in preparation for the USAR.
Change Request Number : SA-92-186.4
Commitment Register Number : RE-0220/RE-0221-002/-0222
Related SER : 9.5.4 SSER :22 9.5.4
SER/SSER Impact : No

9.5-162 4 Adds information which further describes missile
protection of the diesel generators.
Addition :
Relocation of a portion of Q040.29 response to FSAR
text in preparation for the USAR.
Change Request Number : SA-92-148.2
Commitment Register Number :
Related SER : 9.5.8 SSER :
SER/SSER Impact : No

9.5-162 4 Adds information on the relief valve, which is
provided as an alternate discharge path for the
exhaust gases, to the safety evaluation on the
Diesel Generator Combustion Air Intake and Exhaust
System.
Addition :
Relocation of a portion of Q040.29 response to FSAR
text in preparation for the USAR.
Change Request Number : SA-92-148.4
Commitment Register Number :
Related SER : 9.5.8 SSER :
SER/SSER Impact : No

9.5-163 4 Adds descriptive information on the exhaust piping,
associated with the Diesel Generator Combustion Air
Intake and Exhaust System, downstream of the relief
valve.
Addition :
Relocation of a portion of Q040.29 response to FSAR
text in preparation for the USAR.
Change Request Number : SA-92-148.3
Commitment Register Number :
Related SER : 9.5.8 SSER :
SER/SSER Impact : No

9.5-168 4 Adds the following listings in reference to Section
9.5:
44. ASTM D975-1981, "Standard Specifications for
Diesel Fuel Oils".
45. ASTM D4057-1981, "Standard Practice for Manual
Sampling of Petroleum and Petroleum Products".
46. ASTM D1552-1979, "Standard Test Method for Sulfur
in Petroleum Products (High-Temperature Method)".
47. ASTM D2622-1982, "Standard Test Method for Sulfur
in Petroleum Products (X-Ray Spectrographic
Method)".

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		Addition : Relocation of references given in Q040.125 response to FSAR text in preparation for the USAR. Change Request Number : SA-92-186.5 Commitment Register Number : RE-0221-002/RE-0222 Related SER : 9.5.4 SSER :22 9.5.4 SER/SSER Impact : No
9.5-168	4	Adds listing for ANSI B31.1, Power Piping, to the references given at the end of FSAR Section 9.5. Addition : Relocation of a reference given in the Q010.6 response to FSAR text in preparation for the USAR. Change Request Number : SA-92-12.4 Commitment Register Number : Y6-7602 Related SER : 9.5.1 SSER :12 9.5.1 SER/SSER Impact : No
10.3-22	3	Removes reference to Table 10.3-10, Secondary Cycle Water Chemistry, (Normal Operation). Revision : See Description for Table 10.3-10. Change Request Number : SA-93-167. Commitment Register Number : Related SER : 5.4.2.3 SSER :1 5.4.2.3 SER/SSER Impact : No
10.3-23	4	See Sheet No(s) :26 Clarifies basis for the secondary chemistry program Clarification : Adds discussion to establish the original basis for the secondary chemistry program by indicating the reference documents used to develop the CPSES secondary chemistry program for plant startup. Adds reference for Branch Technical Position MTEB 5-3, Revision 1. Deletes reference to "meet specifications of the NSSS vendor" as a controlling document for the secondary chemistry program. The Westinghouse manual is not maintained current as Westinghouse recommendations are presently communicated through their participation in the revision process of the EPRI guidelines, which is the basis for the CPSES secondary chemistry program. This change supports the FSAR which describes that the CPSES secondary chemistry program will progress with technology development. Revises the requirement to adhere to the EPRI secondary chemistry guidelines except where "industry practice and/or CPSES technical evaluations exceed and improve those specifications" to allow exceptions or differences justified by CPSES technical evaluations of revisions of the EPRI

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guidelines.

Change Request Number : SA-93-167.
Commitment Register Number :
Related SER : 5.4.2.3 SSER :1 5.4.2.3
SER/SSER Impact : No

Table 10.3-10

- 3 Removes the parameters and values listed in Table 10.3-10, Secondary Cycle Water Chemistry (Normal Operation) from the FSAR.

Revision :

The values and parameters listed in Table 10.3-10 have been deleted because this information is duplicative of that already contained in station procedures which are based on and updated according to the EPRI secondary water chemistry guide. In addition, this information is too detailed in nature than that appropriate for the FSAR and would also require to be continually updated with the developing EPRI secondary chemistry guidelines and CPSES secondary chemistry program. The removal of this information from the FSAR does not alter the secondary chemistry program.

Change Request Number : SA-93-167.
Commitment Register Number :
Related SER : 5.4.2.3 SSER :1 5.4.2.3
SER/SSER Impact : No

10.4-32

- 4 Adds reference to Figure 1.2-1, which shows the location of the circulating water discharge structure; adds information on the discharge temperature for the circulating water system.

Addition :

Relocation of a portion of Q320.4 response to FSAR text in preparation for the USAR.

Change Request Number : SA-92-278.4
Commitment Register Number :
Related SER : 10.4.5 SSER :04 10.4.5
SER/SSER Impact : No

10.4-33

- 3 Change the material description to include the use of stainless steel for circulating water piping.

Revision :

Circulating water pump lube water piping is carbon steel and is excessively corroded. The affected piping will be replaced with stainless steel. The circulating water system affected by this change is not required for emergency cool down or operation of the engineered safeguards systems. The change to this portion of the FSAR will provide an editorial update to reflect the piping system and does changed the intent of the description in this section of the FSAR.

Change Request Number : SA-93-106.1

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		Commitment Register Number :
		Related SER : 10.4 SSER :
		SER/SSER Impact : No
10.4-36	4	Adds the discharge velocity to the discussion of the circulating water system.
		Addition :
		Relocation of a portion of Q320.4 response to FSAR text in preparation for the USAR.
		Change Request Number : SA-92-278.6
		Commitment Register Number :
		Related SER : 10.4.5 SSER :04 10.4.5
		SER/SSER Impact : No
10.4-64	3	Deletes reference to the turbine impulse stage pressure and nuclear power level signals as inputs to feedwater control bypass valve when controlling steam generator water below 25% power.
		Revision :
		The turbine impulse pressure is a feed-forward signal that is generic to to Westinghouse steam generator control systems. This control feature is not necessary for proper steam generator level control at CPSES. In addition, its removal was recommended by the Westinghouse Owners Group trip assessment subcommittee because the feed-forward signal created instabilities in the control system.
		Change Request Number : SA-93-124.
		Commitment Register Number :
		Related SER : 10.4 SSER :
		SER/SSER impact : No
10.4-70	3	See Sheet No(s) :79 and 80
		Revises Steam Generator Blowdown System description to state preferred operating lineup.
		Revision :
		The Steam Generator Blowdown system (SGBLDN) system description has been revised to indicate how the system is operated under normal operating conditions with the processed blowdown routed to the heater drain tank for efficiency purposes. Per EPRI guidelines, secondary water chemistry is run on an "ALARA" basis. This requires normal SGBLDN operation to be with demineralizers in services. Operation with SGBLDN demineralizers normally in service will enhance water quality.
		Change Request Number : SA-93-153.
		Commitment Register Number :
		Related SER : 10.4.8 SSER :22 10.4.8
		SER/SSER Impact : No
10.4-71	4	Removes description of SGBLN filters particle retention size.

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Clarification :

The design particulate retention description for the SGBLN inlet filter and the spent resin sluice pump filter was deleted from the FSAR text. This information is already provided in Table 10.4-6, Sheets 3 and 4. The particulate retention size information was updated in the previous amendment to more appropriately indicate the "Micron Rating." The goal of these ratings are to provide maximum cleanup of the blowdown while enhancing operational flexibility. CPSES uses the smallest rated filter (typically 0.6 μ m absolute) to filter blowdown. Larger size filters will only be used if some transient causes a large amount of sludge to be present in the blowdown water. At that time a larger filter might be used to aid in Steam Generator cleanup. As the Steam Generator is cleaned up the filters would be reduced in size.

Change Request Number : SA-93-153.

Commitment Register Number :

Related SER : 10.4.8 SSER :22 10.4.8

SER/SSER Impact : No

10.4-75

- 3 SGBLN filters will normally operated in parallel.
Revision :

In order to maximize SGBLDN filter life, the filters are run in parallel. This reduces the flow through the individual filters which reduces the flow induced delta P so that more of the delta P limit is available for sludge loading.

Change Request Number : SA-93-153.

Commitment Register Number :

Related SER : 10.4.8 SSER :22 10.4.8

SER/SSER Impact : No

Table 10.4-20

- 3 See Sheet No(s) :03
Revises T10.4-20 to delete chlorides as a continuously measured parameter from the Main Steam after Moisture Separator Reheater (MSR) sample stream.

Revision :

The deletion of chlorides as a continuously measured parameter from the Main Steam after MSR sample stream does not affect the capability of the Secondary Process Sampling System to perform its intended function and maintain design basis requirements. The continuous monitoring for chlorides in the Main Steam after MSR with an in-line chloride analyzer is redundant to existing on-line equipment, no longer provides essential operating information and does not warrant the expense of analyzer calibration and maintenance requirements. The chloride analyzer will be left in

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a layup condition at this time and will be removed during some future Secondary Sample Panel modification. The continuous monitoring of chlorides (and other anions) within the secondary cycle is already performed via in-line cation conductivity analyzers located in the Hotwell, Condensate Pump discharge, Heater Drain Pump Discharge, Polisher Outlet, Final Feedwater, Steam Generator Blowdown and Main Steam after MSR sample streams. Cation conductivity is used as an indicator of total dissolved anions which can impact secondary side chemistry control. Due to the cation conductivity analyzer's higher accuracy, alarm function, and consistency with the method of steam purity analysis, it is considered that chlorine contamination is adequately monitored with the existing cation conductivity analyzer.

Change Request Number : SA-93-130.
Commitment Register Number :
Related SER : 5.4.2.3 SSER :12 5.4.2.3
SER/SSER Impact : No

Figure 10.4-3

- 4 See Sheet No(s) :01
Adds valve position and description to seal water make up valves.
Addition :
Revises figure for Condenser Vacuum & Water Box Priming System to provide additional details of vendor supplied components. The valve position and description changes to the seal water supply make up valves does not represent a change to the operation or function of the system.
Change Request Number : SA-93-164.
Commitment Register Number :
Related SER : 10.4.2 SSER :
SER/SSER Impact : No

Figure 10.4-8

- 4 See Sheet No(s) :01
Revises Figure 10.4-8, Sheet 1, Condensate System to add a vent line to the auxiliary condenser drain line.
Revision :
CPSES Unit 1 modification for the addition a vent line to the auxiliary condensers drain line to eliminate possible flow restrictions because of entrained gases and to help reduce oxygen ingress into the secondary side systems.
Change Request Number : SA-93-117.
Commitment Register Number :
Related SER : 10.4.1 SSER :
SER/SSER Impact : No

Figure 10.4-9

- 4 See Sheet No(s) :02

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Removes 1302-5/152-5 pipe category change note at drain valves.

Revision :

Replaces Class 152-5 drain line piping downstream of the drain valve with Class 1302-5 piping. This change will provide the drain lines with the same material used upstream in the drain line for the moment restraint for the Feedwater Bypass line. This portion of the Feedwater System is non-safety related and will not impact the Containment pressure boundary. In the event of an upstream valve failure, a capped drain valve with the Class 152-5 piping could produce a situation where the internal pressure of the line exceeds the pressure rating of the Class 152-5 length. The replacement of the Class 152-5 piping with Class 1302-5 will adequately resolve the possible safety hazards for the drain locations.

Change Request Number : SA-93-158.

Commitment Register Number :

Related SER : 10.4.7 SSER :

SER/SSER Impact : No

Figure 10.4-11

3

See Sheet No(s) :01

Changes Note 13 to Figure 10.4-11, Sheet 1 to indicate the valve internals of check valves 1AF-045 (Zone E3), 1AF-057 (Zone E4) and 1AF-069 (Zone E5) were removed.

Revision :

These check valves are not required to perform a safety function in this configuration. Removal of the valve internals does not adversely affect performance, function or flow characteristics of the Auxiliary Feedwater System.

Change Request Number : SA-93-92.2

Commitment Register Number :

Related SER : 9.2 SSER :22 9.2

SER/SSER Impact : No

Figure 10.4-11

3

See Sheet No(s) :01

Changes Figure 10.4-11, sheet 1 to show the position of the valve (Zone C2) on the Condensate Storage routed to the Secondary Sampling System as normally open.

Revision :

A 3/4" connection is provided on the Condensate Storage Tank level instrumentation line to allow sampling of the tank inventory. The sampling equipment requires continuous flow, but the isolation valve for the sampling line was positioned as normally closed. This required the isolation valve to be opened by operations or chemistry when a sample was to be taken. Sampling is done on a

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frequent basis and required manual operation of the valve for sample system lineup. This change revised the position of the isolation valve to normally open. Calculations have determined that the maximum flow rate from the 3/4" piping is such that this configuration will not compromise the ability of the AFW System to perform its safety functions. Failure of the lower class components will not result in loss of safety function of the higher class components. The effect on the level instrumentation will not compromise the ability of the AFW system to perform its safety function.

Change Request Number : SA-93-104.1
Commitment Register Number : NL-0160
Related SER : 10.4 SSER :
SER/SSER Impact : No

Figure 10.4-16

4

See Sheet No(s) : 02

Revises Figure to show valves as "normally open."

Update :

The Unit 2 Main and Extraction Steam Supply to the 50 lb. Auxiliary Steam Header cross-connect valves are currently shown as normally closed valves. This is a holdover from the period when Unit 1 was in operation and Unit 2 was under construction and the valves were used as Unit isolation valves. This activity changes XSA-233 (MS cross tie) and XSA-334 (EX cross tie) to be normally open valves. The design basis of the Auxiliary Steam System addresses this activity stating that Main Steam and Extraction Steam are the normal supply sources for the Auxiliary Steam System and can be furnished by either or both units. Therefore, changing the configuration to normally open valves will not affect the design basis or adversely affect the operation of the Auxiliary Steam System.

Change Request Number : SA-94-15.
Commitment Register Number :
Related SER : SSER :
SER/SSER Impact : No

11.2-3

3

Changed FSAR text description to indicate that a cost-benefit analysis for the design of the Liquid Waste Processing System (LWPS) was not required because limitations imposed by the Annex to Appendix I of 10 CFR Part 50 (RM 50-2) were met by the LWPS as described and evaluated during plant construction. Also, change "an evaluation" to "evaluations" with respect to Section 11A analyses.

Update :

Updates the FSAR text description to "past tense" with respect to the requirements of the RM 50-2 Annex to Appendix I which was applied to the

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original design of the LWPS during CPSES construction. Wording changed to "evaluations" because analyses reported in FSAR Section 11A result from several evaluations/engineering calculations.

Change Request Number : SA-93-126.1

Commitment Register Number :

Related SER : 11.2.1.3 SSER :

SER/SSER Impact : No

Table 11.2-2

3

See Sheet No(s) : 2,3,4,7,8,9

For selected radionuclides, revise the table listed tank inventories or process line activities.

Revision :

See justification for the change to page 11A-2 (SA-93-126.3).

Change Request Number : SA-93-126.10

Commitment Register Number :

Related SER : 11.2 SSER :

SER/SSER Impact : No

Table 11.2-5

3

See Sheet No(s) : 07

Add new Radiation Monitor, RE5251A, specifications.

Addition :

See Justification for the change to page 9.2-35 (SA-92-687.1).

Change Request Number : SA-92-687.6

Commitment Register Number :

Related SER : 11.2.1 SSER : 22 11.2.1

SER/SSER Impact : Yes

See SER/SSER Impact for SA-92-687.4.

Table 11.2-8

3

See Sheet No(s) : 1,2,3

For selected radionuclides, revise the table listed tank inventories.

Revision :

See justification for the change to page 11A-2 (SA-93-126.3).

Change Request Number : SA-93-126.11

Commitment Register Number :

Related SER : 11.2 SSER :

SER/SSER Impact : No

Table 11.2-9

3

See Sheet No(s) : 1,2,3

For selected radionuclides, revise table listed expected release concentrations.

Revision :

See justification for the change to page 11A-2 (SA-93-126.3).

Change Request Number : SA-93-126.12

Commitment Register Number :

Related SER : 11.2 SSER :

SER/SSER Impact : No

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Table 11.2-10	3	<p>See Sheet No(s) :1,2 For selected radionuclides, revise table listed reactor coolant activity and design release concentrations. Revision : See justification for the change to page 11A-2 (SA-93-126.3). Change Request Number : SA-93-126.13 Commitment Register Number : Related SER : 11.2 SSER : SER/SSER Impact : No</p>
11.3-1	3	<p>Revised FSAR text description to refer to the design objectives required by Appendix I of 10 CFR 50 in lieu of the Annex to Appendix I of 10 CFR 50 (RM 50-2). Revision : For operating plants (i.e. post-construction) , a general reference to Appendix I of 10 CFR 50 is most appropriate with respect to required numerical design objectives so that calculated offsite doses from radioactive effluents are considered ALARA. The Annex to Appendix I of 10 CFR 50 (RM 50-2) pertains more to point-in-time criteria, i.e., design/cost benefit considerations at construction, and should not be specifically referenced as the effective objective during operations (post-construction). For related justification see item number SA-93-126.5. Change Request Number : SA-93-126.2 Commitment Register Number : Related SER : 11.2.2.5SSER : SER/SSER Impact : No</p>
11.5-3	3	<p>See Sheet No(s) : 26, 31 and 35 Add information regarding the addition of the Auxiliary Building to Low Volume Waste (LVW) Pond Monitor to the pertinent FSAR sub-sections in Section 11.5, "Process and Effluent Radiological Monitoring and Sampling Systems." Addition : See Justification for the change to page 9.2-35 (SA-92-687.1). Change Request Number : SA-92-687.4 Commitment Register Number : Related SER : 11.3 SSER :24 11.3 SER/SSER Impact : Yes The SER, SSER #23 and SSER #24 contain Table 11.6, "Process and Effluent Monitors," which does not include the Auxiliary Building to Low Volume Waste (LVW) Radiation Effluent Monitor, RE5251A. Table 11.6 will need to be updated in the next SSER that is issued subsequent to the amendment which adds the new radiation monitor.</p>

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11.5-22	4	Adds general information on manually sampling the containment atmosphere. Addition : Relocation of a portion of Q212.28 response to FSAR text in preparation for the USAR. Change Request Number : SA-92-382.2 Commitment Register Number : Related SER : 11.3 SSER : SER/SSER Impact : No
11.5-25	4	Adds information on QA requirements for Fuel Building radiation monitors. Addition : Relocation of a portion of Q260.1 response to FSAR text in preparation for the USAR. Change Request Number : SA-92-255.3 Commitment Register Number : X2-0091 Related SER : 17.3 SSER :22 17.3 SER/SSER Impact : No
11.5-40	3	Due to the addition of the new radiation monitor, add the Auxiliary Building Sumps (Nos. 3 & 11), the Diesel Generator Sumps, and the Component Cooling Water Drain Tanks as new continuous release pathways, and delete the Component Cooling Water Drain Tank as a batch release pathway Addition : See Justification for the change to page 9.2-35 (SA-92-687.1). Change Request Number : SA-92-687.5 Commitment Register Number : Related SER : 11.3 SSER :24 11.3 SER/SSER Impact : Yes See SER/SSER Impact for SA-92-687.4.
Table 11.5-1	3	See Sheet No(s) : 02 Add new Radiation Monitor, XRE-5251A, and associated parameters. Addition : See Justification for the change to page 9.2-35 (SA-92-687.1). Change Request Number : SA-92-687.7 Commitment Register Number : Related SER : 11.3 SSER :24 11.3 SER/SSER Impact : Yes See SER/SSER Impact for SA-92-687.4.
Table 11.5-2	3	Add detector for new Radiation Monitor, RE-5251A, and associated parameters. Addition : See Justification for the change to page 9.2-35 (SA-92-687.1).

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		Change Request Number : SA-92-687.8 Commitment Register Number : Related SER : 11.3 SSER :24 11.3 SER/SSER Impact : Yes See SER/SSER Impact for SA-92-687.4.
Table 11.5-3	3	See Sheet No(s) : 02 Add new Radiation Monitor, XRE-5251A, and associated characteristics. Addition : See Justification for the change to page 9.2-35 (SA-92-687.1). Change Request Number : SA-92-687.9 Commitment Register Number : Related SER : 11.3 SSER :24 11.3 SER/SSER Impact : Yes See SER/SSER Impact for SA-92-687.4
11A-2	3	Add information related to the consideration of an extended (18 month) fuel cycle. Addition : Calculation results associated with the effects of an extended (18 month) fuel cycle are incorporated. Change Request Number : SA-93-126.3 Commitment Register Number : Related SER : 11.2 SSER : SER/SSER Impact : No
11A-8	3	Revise maximum predicted dose to a single organ (teen's liver) and dose to the whole-body (adult) from fish consumed from Squaw Creek Reservoir. Revise maximum calculated teen total-body dose due to engaging in recreational activity on the lake shore. Revision : See justification for the change to page 11A-2 (SA-93-126.3). Change Request Number : SA-93-126.4 Commitment Register Number : Related SER : 11.2 SSER : SER/SSER Impact : No
11A-9	3	See Sheet No(s) :12,13 Revise text to delete stated reference to the design objectives established in RM 50-2 --Annex to Appendix I of 10 CFR 50. Revision : An extended fuel cycle (18 months/both units) will increase the fission product inventory in the reactor cores and result in changes to the normal operation radioactive gaseous and liquid effluents released from the site. Although the analyses are not safety related, the predicted offsite radiation

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doses will increase and, with conservatism, exceed 10 CFR 50, Appendix I, Docket RM 50-2 design objectives (5 mrem/yr per site to either total body or any organ) but remain within 10 CFR 50, Appendix I, criteria (6 mrem/yr per CPSES site --total body; 20 mrem/yr per CPSES site -- any organ). The commitment to RM 50-2 was met by the liquid waste processing system as described in the FSAR during construction which eliminated the requirement to perform a cost-benefit analysis for the system at that time. Subsequently, during operation, the design objective limits of 10 CFR 50, Appendix I are applicable. The calculated offsite doses after considering the extended fuel cycle remain below the applicable numerical limits of 10 CFR 50, Appendix I. See revised FSAR Table 11A-5.

Change Request Number : SA-93-126.5
Commitment Register Number :
Related SER : 11.2 SSER :
SER/SSER Impact : No

Table 11A-1	3	<p>See Sheet No(s) :1,2,3</p> <p>Revise table listed concentration data for H-3, RU-106, CS-134, CS-137, CE-144 and SR-90; revise table footnotes.</p> <p>Revision :</p> <p>See justification for the change to page 11A-2 (SA-93-126.3).</p> <p>Change Request Number : SA-93-126.6</p> <p>Commitment Register Number :</p> <p>Related SER : 11.2 SSER :</p> <p>SER/SSER Impact : No</p>
Table 11A-2	3	<p>See Sheet No(s) :1,2,3,4</p> <p>Revise table listed maximum dose values for fish ingestion, shoreline activity and milk-cow/meat pathways for Squaw Creek Reservoir; add footnote to table that new listed maximum dose values are based on extended fuel cycle.</p> <p>Revision :</p> <p>See justification for the change to page 11A-2 (SA-93-126.3).</p> <p>Change Request Number : SA-93-126.7</p> <p>Commitment Register Number :</p> <p>Related SER : 11.2 SSER :</p> <p>SER/SSER Impact : No</p>
Table 11A-5	3	<p>Revise table listed design objective dose limits to reflect 10 CFR 50, Appendix I numerical limits in lieu of 10 CFR 50, Appendix I, Annex (RM 50-2) limits; revise footnote (1) to do the same, i.e., reference 10 CFR 50, Appendix I in lieu of 10 CFR 50, Appendix I, Annex (RM 50-2); also, revise</p>

FSAR Page
(as amended)

Group Description

calculated dose from all pathways.

Revision :

See justification for the change to page 11A-9
(SA-93-126.5).

Change Request Number : SA-93-126.8

Commitment Register Number :

Related SER : 11.2 SSER :

SER/SSER Impact : No

Table 11A-6

3 See Sheet No(s) :1,2,3

Revise selected table Appendix I design objective limits for exposure to noble gases (gamma dose in air; beta dose in air) and for exposure to radioiodines and particulates (dose to any organ from all pathways); revise footnote (1) to reference 10 CFR 50, Appendix I in lieu of 10 CFR 50, Appendix I, Annex (RM 50-2).

Revision :

The subject table listed design objective limits were revised to accurately reflect an annual per site limit rather than a single unit limit. Now that CPSES has two operating units, the subject limits were effectively doubled to properly reflect an allowable per site total limit. For information on the footnote change, see justification supporting the change to page 11A-9 (SA-93-126.5).

Change Request Number : SA-93-126.9

Commitment Register Number :

Related SER : 11.2 SSER :

SER/SSER Impact : No

12.2-7

4 See Sheet No(s) :8

Adds discussion on the samples pulled to determine spent fuel pool demineralizer decontamination factors, and performance of a surveillance to monitor differential pressures of the demineralizer and filters.

Addition :

Relocation of a portion of Q281.2 response to FSAR text in preparation for the USAR.

Change Request Number : SA-92-258.4

Commitment Register Number : CE-0098-004/OP-0319-002

Related SER : 9.1.3 SSER :

SER/SSER Impact : No

12.3-33

4 Clarifies statement on the design features employed to "maintain occupational" radiation exposure "as low as is reasonably achievable (ALARA)" during decommissioning.

Clarification :

Relocation of a portion of Q331.2 response to FSAR text in preparation for the USAR.

Change Request Number : SA-92-283.2

FSAR Page (as amended)	Group Description
	Commitment Register Number : Related SER : 12.1.4 SSER : SER/SSER Impact : No
12.3-33	4 See Sheet No(s) :34 Adds information on the design features inherent in the plant design which are also applicable to decommissioning. Addition : Relocation of a portion of Q331.2 response to FSAR text in preparation for the USAR. Change Request Number : SA-92-283.3 Commitment Register Number : Related SER : 12.1.4 SSER : SER/SSER Impact : No
12.3-34	4 See Sheet No(s) :35 Adds computer codes used for the shielding design along with a brief description of each code. Addition : Relocation of Q331.22 response to FSAR text in preparation for the USAR. Change Request Number : SA-92-558.2 Commitment Register Number : Related SER : 12.3.2 SSER :26 12.3 SER/SSER Impact : No
12.3-45	4 Adds the following sentence: Together, the PRMS and ARMS comprise the CPSES Radiation Monitoring System (RMS). Clarification : Relocation of a portion of Q331.12 response to FSAR text in preparation for the USAR. Change Request Number : SA-92-287.2 Commitment Register Number : Related SER : 12.3 SSER :26 12.3 SER/SSER Impact : No
12.3-45	4 Adds information on the appropriate response to ARMS alarm annunciation in the Control Room. Addition : Relocation of a portion of Q331.12 response to FSAR text in preparation for the USAR. Change Request Number : SA-92-287.3 Commitment Register Number : HP-0073-002 Related SER : 12.3 SSER :26 12.3 SER/SSER Impact : No
12.3-46	4 See Sheet No(s) :47 Adds information on area monitors which alarm locally upon detection of radiation due to increased airborne radioactivity. Addition :

FSAR Page
(as amended)

Group Description

		Relocation of a portion of Q331.12 response to FSAR text in preparation for the USAR. Change Request Number : SA-92-287.4 Commitment Register Number : Related SER : 12.3 SSER :26 12.3 SER/SSER Impact : No
12.3-47	4	Adds information on QA requirements for portable radiation and radioactivity monitoring equipment. Addition : Relocation of a portion of Q260.1 response to FSAR text in preparation for the USAR. Change Request Number : SA-92-255.4 Commitment Register Number : X2-0090 Related SER : 17.3 SSER :22 17.3 SER/SSER Impact : No
12.3-49	4	Adds information on the function of the in-line gaseous monitors in vent ducts, and refers to Table 11.5-1 for more detailed parameters of these monitors. Addition : Relocation of a portion of Q331.12 response to FSAR text in preparation for the USAR. Change Request Number : SA-92-287.5 Commitment Register Number : Related SER : 12.3 SSER :26 12.3 SER/SSER Impact : No
12.3-64	4	Adds listing for WCAP-2872 to the references given at the end of FSAR Section 12.3. Addition : Relocation of a reference given in the response to Q331.2 to FSAR text in preparation for the USAR. Change Request Number : SA-92-283.4 Commitment Register Number : Related SER : 12.1.4 SSER : SER/SSER Impact : No
12.5-3	4	Adds information on QA requirements for activities, equipment, facilities and instruments necessary to implement the Radiation Protection Program. Addition : Relocation of a portion of Q260.1 response to FSAR text in preparation for the USAR. Change Request Number : SA-92-255.5 Commitment Register Number : X2-0094/X2-0096 Related SER : 17.3 SSER :22 17.3 SER/SSER Impact : No
12.5-7	4	Adds information on the location and purpose of the male and female dressing rooms, and notes that arrangements for separate change areas within the

FSAR Page
(as amended)

Group Description

Radiation Controlled Area are not necessary.

Addition :

Relocation of a portion of Q331.4 & Q331.7 responses to FSAR text in preparation for the USAR.

Change Request Number : SA-92-285.6

Commitment Register Number : X1-0974

Related SER : 12.3 SSER :26 12.3

SER/SSER Impact : No

12.5-14

4

Adds the following words to Section 12.5.3.3 text discussion on personnel, equipment and material exiting from contaminated areas : " by friskers or other appropriate radiation detecting instruments"

Addition :

Relocation of a portion of Q331.7 response to FSAR text in preparation for the USAR.

Change Request Number : SA-92-285.7

Commitment Register Number : HP-0060-032

Related SER : 12.3 SSER :26 12.3

SER/SSER Impact : No

13.1-2

3

Delete sections which describe preoperational and startup organizations.

Update :

In accordance with Regulatory Guide 1.70 and NUREG-0800, FSAR section 13.1.1.1 paragraphs 1 and 2 are set aside for the construction and preoperational organization descriptions. With the commercial licensing of CPSES unit-2, these organizations were phased out and the respective requirement is no longer applicable.

Change Request Number : SA-94-5.1

Commitment Register Number :

Related SER : SSER :

SER/SSER Impact : No

13.1-4

4

See Sheet No(s) :5-9

Update manager titles to reflect reorganization to support dual unit operations.

Editorial :

The titles of the nuclear organization managers have been changed to be more consistent with a dual unit operating site. The duties and responsibilities of the managers remain intact and have not been altered. This change is editorial in nature.

Change Request Number : SA-94-5.2

Commitment Register Number :

Related SER : SSER :26 13.1

SER/SSER Impact : No

13.1-8

3

Replace QA program terms such as audits, surveillances, assessments, with the term evaluations.

FSAR Page
(as amended)

Group Description

Update :
The Appendix B terminology pertaining to the Quality Assurance Program encompasses many terms such as audits, surveillances, assessments, inspections... All of these terms have been consolidated into the term "evaluations" to have one easily discernible term encompassing all QA required activities.
Change Request Number : SA-94-5.13
Commitment Register Number :
Related SER : SSER :
SER/SSER Impact : No

13.1-9

3

Deletion of corporate Emergency Planning function

Update :
The corporate health physics function of the corporate Emergency Planning support center no longer exists. All health physics Emergency Planning functions have been consolidated on-site. Therefore, there is no longer any need for the Nuclear Overview Department to provide assistance for this function.
Change Request Number : SA-94-5.14
Commitment Register Number :
Related SER : SSER :
SER/SSER Impact : No

13.1-10

3

Update the Quality Assurance management titles and responsibilities to support dual unit operation. Consolidate the QA related reporting responsibility of the Nuclear Overview Manager to the Vice Presidents (Nuclear). Delineate the responsibilities of the independent safety engineering function.

Update :
The Nuclear Overview department reorganized to be more consistent with dual unit operations. New manager titles have been assigned and the current responsibilities and duties have been reassigned among the new titles. The Vice President of Nuclear Engineering and Support is now included in the reporting chain for activities relating to the status of the QA program. The independent safety engineering function will now be conducted per an observation (compilation of monitoring, assessment, analysis...) process administered by functional area of expertise, i.e., operations, maintenance, or engineering.

In accordance with 50.54(a)(3), the reorganization does not reduce the commitments as described in the current Quality Assurance Plan.

Change Request Number : SA-94-5.3
Commitment Register Number :
Related SER : SSER :
SER/SSER Impact : No

FSAR Page
(as amended)

Group Description

- 13.1-11 4 See Sheet No(s) :12-19
Update manager titles to reflect reorganization to support dual unit operations. Delete a reference to training as being redundant to a previous reference.
Editorial :
The titles of the nuclear organization managers have been changed to be more consistent with a dual unit operating site. The duties and responsibilities of the managers remains intact and have not been altered. The reference to training in section 13.1.2.1.7 has been deleted as being redundant to the reference to training in section 13.1.1.2.1.
This change is editorial in nature.
Change Request Number : SA-94-5.4
Commitment Register Number :
Related SER : SSER :26 13.1
SER/SSER Impact : No
- 13.1-19 3 See Sheet No(s) :20
Update qualification requirements to reflect adoption of post TMI requirements.
Update :
By stating the commitment to Regulatory Guide 1.8, rev. 2, there is no need to list prescriptive requirements in the body of this section as they are inherent to the aforementioned R.G. CPSES was required to incorporate post TMI requirements per 50.54(f) as part of the initial docketed safety analysis report submittal as acknowledged by the NRC in the SER (NUREG-0797). SSER 22 also acknowledges the CPSES commitment to update the qualification requirements of the RPM position to R.G. 1.8, rev. 1. In section B of R.G. 1.8, rev. 2, it states the provisions of rev. 2 have been updated to include the post TMI and rev. 1 RPM qualification requirements. Therefore, it is redundant to list prescriptive requirements which are inherent to the contents as prescribed by R.G. 1.8, rev.2.
Change Request Number : SA-94-5.5
Commitment Register Number :
Related SER : 13.1/22 SSER :22 13.1
SER/SSER Impact : Yes
These changes are consistent with the provisions of SER sections 13.1 and 22, and SSER 22 section 13.1.
- Table 13.1-1 4 See Sheet No(s) :1 & 2
Update position titles and qualifications to reflect dual unit operations and Regulatory Guide 1.8, rev. 2.
Update :
The titles of nuclear organization managers have been changed to be more consistent with a dual unit

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(as amended)

Group Description

operating site. The duties and responsibilities of the affected manager positions remain intact and have not been altered. The qualification requirements have been updated in accordance with Regulatory Guide 1.8, rev.2 to reflect the new position titles assigned as a result of dual unit operations.

Change Request Number : SA-94-5.6
Commitment Register Number :
Related SER : SSER :
SER/SSER Impact : No

Table 13.1-2

3

Update titles and current commitments to reflect reorganization to support dual unit operations.

Update :

The titles of nuclear organization managers have been changed to be more consistent with a dual unit operating site. The duties and responsibilities remain intact and have not been altered. The format has been changed to be more consistent with Technical Specifications to accommodate the relocation of the minimum shift crew composition chart from Tech. Specs. to the USAR in accordance with the commission policy statement on Technical Specification Improvements for Nuclear Power Reactors (58 FR 39132). The updating of this table is a clarification of existing commitments described in current license basis documents, and is a more conservative application than prior tables.

Change Request Number : SA-94-5.7
Commitment Register Number :
Related SER : SSER :
SER/SSER Impact : No

Figure 13.1-2

3

Update organization chart to reflect manager title and departmental position changes as a result of dual unit operations.

Update :

The titles of nuclear organization managers have been changed to be more consistent with a dual unit operating site. Some duties have been reassigned, but all duties and responsibilities are intact and remain in compliance with previous docketed commitments.

Change Request Number : SA-94-5.8
Commitment Register Number :
Related SER : SSER :26 13.1
SER/SSER Impact : No

Figure 13.1-3

4

Update organization chart to reflect manager title and departmental position changes as a result of dual unit operations.

Update :

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The titles of nuclear organization managers have been changed to be more consistent with a dual unit operating site. Some duties have been reassigned, but all duties and responsibilities are intact and remain in compliance with previous docketed commitments.

Change Request Number : SA-94-5.9
Commitment Register Number :
Related SER : SSER :26 13.1
SER/SSER Impact : No

13.1A-1

4

See Sheet No(s) :A-2 thru A-5, A-10 thru A-20 and A-23 thru A-26

Update managers titles on resume's to reflect title changes as a result of reorganization to support dual unit operation.

Editorial :

As a result of reorganization for dual unit operations, managers titles have been changed to be more consistent with a fully licensed site. Only key positions required by Regulatory Guide 1.70, rev.2 are listed. As a result of the reorganization, several previous key positions are now reporting to current key positions listed.

Change Request Number : SA-94-5.10
Commitment Register Number :
Related SER : SSER :26 13.1
SER/SSER Impact : No

13.6-1

3

See Sheet No(s) :4 & 5

Update commitment to current regulation for access authorization requirements of personnel granted unescorted access to plant protected and vital areas.

Update :

With the issuance of 10CFR26, "Fitness for Duty Programs" published in 54 FR 24494 dated 6/7/89, and 10CFR73.56, "Personnel access authorization for nuclear power plants" published in 56 FR 18997 dated 4/27/94, the remaining commitments to ANSI/ANS 3.3-1982 and the NUMARC guideline pertaining to access authorization has been superseded by the prescriptive regulations and is no longer applicable. The requirement of the Vice President of Nuclear Operations to authorize personnel access has been superseded by the prescriptive requirements of the regulations, and all references to this requirement have been updated to reflect the more conservative process required per regulation. The section requiring the Vice President of Nuclear Operations to ensure personnel granted unescorted access are covered by a behavioral observation program, is now redundant to provisions prescribed

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(as amended)

Group Description

in 10CFR26 and is hereby being deleted. The title of Vice President of Nuclear Operations has been revised to reflect recent reorganization changes to be consistent with dual unit operations.
Change Request Number : SA-93-113.1
Commitment Register Number :
Related SER : SSER :22 13.6
SER/SSER Impact : Yes
These changes are more conservative than the commitments described in SSER 22.

15.0-8	4	See Sheet No(s) :9 Adds information on the NSSS Control System Setpoint Study. Addition : Relocation of Q212.117 response to FSAR text in preparation for the USAR. Change Request Number : SA-92-194.2 Commitment Register Number : Related SER : 15.1 SSER : SER/SSER Impact : No
15.1-21	4	Adds general information on the equipment required to be operational in the event of a main steam line break accident as well as specific examples. Addition : Relocation of a portion of Q022.2 response to FSAR text in preparation for the USAR. Change Request Number : SA-91-152.3 Commitment Register Number : Related SER : 15.3.5 SSER : 6.2.1 SER/SSER Impact : No
15.1-21	4	See Sheet No(s) :22 Adds reference to Section 7.5, which contains equipment provided and relied upon for the Post-Accident Monitoring System. (Statement also appears in Table 15.1-2.) Editorial : Relocation of a portion of Q022.2 response to FSAR text in preparation for the USAR. Change Request Number : SA-91-152.4 Commitment Register Number : Related SER : SSER : SER/SSER Impact : No
15.2-31	4	Adds paragraph on action following a secondary line rupture (with offsite power available). Addition : Relocation of a portion of Q212.129 response to FSAR text in preparation for the USAR. Change Request Number : SA-92-200.3 Commitment Register Number : NL-1859

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Group Description

		Related SER : 15.3.5 SSER :22 15.3.5 SER/SSER Impact : No
15.6-23	4	Adds information on the prevention of excessive boron concentration in the reactor vessel during long-term operation following a LOCA. Addition : Relocation of a portion of Q212.40 response to FSAR text in preparation for the USAR. Change Request Number : SA-92-391.3 Commitment Register Number : NL-6015 Related SER : 6.3.2 SSER : 6.3.3 SER/SSER Impact : No
15.6-46	4	Adds the following sentence: "The analysis did not consider the reduction of mass flow during the valve closure time of five seconds; full flow was assumed until the lapse of five seconds." Addition : Relocation of a portion of Q022.8 response to FSAR text in preparation for the USAR. Change Request Number : SA-92-45.15 Commitment Register Number : Related SER : 6.2.3 SSER :22 6.2.3 SER/SSER Impact : No
17.2-1	4	See Sheet No(s) :7,10,14-16 18 25 27 Editorial change to update the T U Electric nuclear organization name from Nuclear Engineering and Operations (NEO) to Nuclear Production (NP) Editorial : As a result of the recent TU Electric company restructuring the NEO division name was changed to the Nuclear Production (NP) division Change Request Number : SA-94-14. Commitment Register Number : Related SER : 17.2 SSER :27 17.2 SER/SSER Impact : No
17.2-3	2	See Sheet No(s) :04 ~ 10, 19, 20, 23, 27, 36 Restructure of the Nuclear Overview Department into functional area responsibilities. Revision : These organizational changes will allow the Nuclear Overview Organization to ensure quality at CPSES through a parallel organization that matches the operational organization set up for operation of the two units. The changes will allow for better utilization of manpower, transition from construction to support of operational units and result in a more effective overview of plant activities. Quality Control inspections will be performed by qualified individuals. Inspectors may

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 (as amended)

Group Description

be from the same department but are not from the same group that perform the work. The changes do not change any previous responsibilities found in the FSAR and do not constitute a reduction in commitment per 10CFR50.54.a.3. The following summarizes general changes to section 17.2. Titles have been changed as follows:

Director of Nuclear Overview is now the Nuclear Overview manager and his responsibilities are unchanged.

Director of Nuclear Overview has five managers reporting to him. The new managers are the Plant Support Overview Manager, the Operations Overview Manager, the Program Overview Manager, the Maintenance Overview Manager and the Engineering Overview Manager. Manager, ISEG responsibilities are now performed by the Engineering Overview Manager. The new managers in the Nuclear Overview Department have sufficient authority and organizational freedom to identify quality problems, recommend solutions, verify implementation of solutions, to stop unsatisfactory work and confront further processing, delivery or installation of non-conforming material until proper disposition has occurred.

Change Request Number : SA-94-14.

Commitment Register Number :

Related SER : 17.2 SSER :27 17.2

SER/SSER Impact : Yes

SSER 27 Section 17.2 needs to be revised to reflect current changes to the QA organization

17.2-4

4

correction of error from previous amendment
 Correction :

Responsibilities of the 'Chief Engineer' were taken over by the Vice President of Nuclear Engineering and Support and the title Chief Engineer was removed. 'Chief Engineer' has been replaced by Vice President Nuclear Engineering and Support to correct an error that was missed during the implementation of Amendment 88 to the FSAR.

Change Request Number : SA-94-14.

Commitment Register Number :

Related SER : 17.2 SSER :27 17.2

SER/SSER Impact : No

17.2-4

3

See Sheet No(s) :5 6 9 10 15-17 20 27 30 32 34-36
 Change in terminology from audits and surveillances to evaluations

Revision :

The use of the term 'evaluation' instead of 'audits and surveillances' is a terminology change that previously described the methodology used in

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overview to one that describes the overall process. The term 'evaluation' is a singular term for the overview process and can be defined as the systematic approach for assessing the relative success of various programs in meeting prescribed regulatory requirements

Change Request Number : SA-94-14.

Commitment Register Number :

Related SER : 17.2 SSER :27 17.2

SER/SSER Impact : Yes

SSER 27 Section 17.2 needs to be revised to reflect the use of the term 'evaluation' instead of 'audits and surveillances'

17.2-8

4

correction of error from previous amendment

Correction :

The Quality Assurance requirements section of the FSAR associated with design and construction of CPSES were removed in Amendment 88 of the FSAR. The reference to Quality Assurance requirements and controls implemented during the design and construction of CPSES have been removed here to correct an error left from implementation of Amendment 88.

Change Request Number : SA-94-14.

Commitment Register Number :

Related SER : 17.2 SSER :27 17.2

SER/SSER Impact : No

17.2-21

4

Adds information on QA requirements for expendable and consumable items required for the functional performance of safety-related structures, systems and components.

Addition :

Relocation of a portion of Q260.1 response to FSAR text in preparation for the USAR.

Change Request Number : SA-92-255.6

Commitment Register Number : X2-0093

Related SER : 17.3 SSER :22 17.3

SER/SSER Impact : No

17.2-27

4

Adds information on the quality of Measuring and Test Equipment (M&TE) used for safety-related structures, systems and components.

Addition :

Relocation of a portion of Q260.1 response to FSAR text in preparation for the USAR. Information on related QA requirements are already addressed in Section 17.2.12.

Change Request Number : SA-92-255.7

Commitment Register Number : X2-0092

Related SER : 17.3 SSER :22 17.3

SER/SSER Impact : No

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(as amended)

Group Description

Figure 17.2-1	4	<p>See Sheet No(s) :02</p> <p>Update organization chart to reflect manager title changes as a result of the Overview reorganization</p> <p>Update :</p> <p>The titles of the Nuclear Overview managers have been changed to reflect the reorganization of Nuclear Overview. Some duties have been reassigned, but all duties and responsibilities are intact and represent no reduction in previous commitments.</p> <p>Change Request Number : SA-94-14.</p> <p>Commitment Register Number :</p> <p>Related SER : 17.2 SSER :27 17.2</p> <p>SER/SSER Impact : No</p>
Figure 17.2-2	4	<p>Restructure of the Nuclear Overview Department into functional area responsibilities.</p> <p>Update :</p> <p>The chart is updated to reflect the changes in titles of nuclear organization managers. The changes were made to be more consistent with a dual unit operating plant. Some duties have been reassigned, but all duties and responsibilities are intact and remain in compliance with previous commitments.</p> <p>Change Request Number : SA-94-14.</p> <p>Commitment Register Number :</p> <p>Related SER : 17.2 SSER :27 17.2</p> <p>SER/SSER Impact : No</p>
Table 17A-1	4	<p>See Sheet No(s) :1</p> <p>Adds II.E.3.1 to Reference Section column for the RCS pressurizer.</p> <p>Addition :</p> <p>Relocation of a portion of Q260.1 response to FSAR text in preparation for the USAR.</p> <p>Change Request Number : SA-92-255.21</p> <p>Commitment Register Number :</p> <p>Related SER : 17.3 SSER :22 17.3</p> <p>SER/SSER Impact : No</p>
Table 17A-1	4	<p>See Sheet No(s) :1</p> <p>Adds "(including RCS vents)" to the two listings for RCS piping and valves, and also adds II.B.1 to the Reference Section column for these piping and valves.</p> <p>Addition :</p> <p>Relocation of a portion of Q260.1 response to FSAR text in preparation for the USAR.</p> <p>Change Request Number : SA-92-255.22</p> <p>Commitment Register Number :</p> <p>Related SER : 17.3 SSER :22 17.3</p> <p>SER/SSER Impact : No</p>

FSAR Page (as amended)		Group Description
Table 17A-1	4	<p>See Sheet No(s) :11 Adds II.E.4.2 to the Reference Section column for piping and valves of all systems penetrating containment (from isolation inside containment to isolation outside containment) listed under Containment Isolation System.</p> <p>Addition :</p> <p>Relocation of a portion of Q260.1 response to FSAR text in preparation for the USAR.</p> <p>Change Request Number : SA-92-255.23 Commitment Register Number : Related SER : 17.3 SSER :22 17.3 SER/SSER Impact : No</p>
Table 17A-1	4	<p>See Sheet No(s) :39 Updates Reference Section column for masonry walls (Q130.36 to 3.8.4) and removable precast block walls (Q130.36 to no entry).</p> <p>Update :</p> <p>Relevant information on masonry walls has been moved from Q130.36 to Section 3.8.4 and Note 52 to this Table. (Note 52 is already referenced under Remarks.) Information contained within Q130.36 on removable precast block walls has been moved to Note 63 to this Table; Note 62 is already referenced under Remarks.</p> <p>Change Request Number : SA-92-353.5 Commitment Register Number : Y7-7149 Related SER : 3.8.3 SSER :24 APP-C.7 SER/SSER Impact : No</p>
Table 17A-1	4	<p>See Sheet No(s) :41 Adds "3.10B.3" to Reference Section column for cable tray supports.</p> <p>Update :</p> <p>Update as a result of transfer of information from Q130.37 & Q130.38 responses to FSAR text, which is in preparation for the USAR.</p> <p>Change Request Number : SA-92-354.5 Commitment Register Number : Related SER : 3.10 SSER :24 3.10 SER/SSER Impact : No</p>
Table 17A-1	4	<p>See Sheet No(s) :42 Adds II.F.1 to the Reference Section column for Containment High Range Radiation Monitors, Plant Vent Stack Gas Monitors, and Main Steam Line Monitors.</p> <p>Addition :</p> <p>Relocation of a portion of Q260.1 response to FSAR text in preparation for the USAR.</p> <p>Change Request Number : SA-92-255.24</p>

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 (as amended)

Group Description

		Commitment Register Number :
		Related SER : 17.3 SSER :22 17.3
		SER/SSER Impact : No
Table 17A-1	4	See Sheet No(s) :42
		Adds the word "Gas" to the listing for Plant Vent Stack Monitors.
		Clarification :
		Clarification of a listing in Table 17A-1 based on information in the response to Q260.1.
		Change Request Number : SA-92-255.25
		Commitment Register Number :
		Related SER : 17.3 SSER :22 17.3
		SER/SSER Impact : No
Table 17A-1	4	See Sheet No(s) :43
		Adds reference to Note 83 to the listing within the Table for the Radiation Monitoring System.
		Addition :
		Reflects addition of Note 83 to the end of this Table.
		Change Request Number : SA-92-276.2
		Commitment Register Number :
		Related SER : 11.2 SSER :22 11.2
		SER/SSER Impact : No
Table 17A-1	4	See Sheet No(s) :45
		Adds II.F.1 to Reference Section column for Electronic Transmitters, Level Transmitters, and Containment Hydrogen Analyzers, which are listed under Instrumentation & Control.
		Addition :
		Relocation of a portion of Q260.1 response to FSAR text in preparation for the USAR.
		Change Request Number : SA-92-255.26
		Commitment Register Number :
		Related SER : 17.3 SSER :22 17.3
		SER/SSER Impact : No
Table 17A-1	4	See Sheet No(s) :45
		Adds the word "Detectors" to a listing for Source and Intermediate Range Neutron.
		Correction :
		Corrects listing under Instrumentation & Control based on information contained in the response to Q260.1.
		Change Request Number : SA-92-255.27
		Commitment Register Number :
		Related SER : 17.3 SSER :22 17.3
		SER/SSER Impact : No
Table 17A-1	4	See Sheet No(s) :47
		Adds II.K.3.9 to Reference Section column for

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		Proportional, Integral Derivative (PID) Controller PC-455A. Addition : Relocation of a portion of Q260.1 response to FSAR text in preparation for the USAR. Change Request Number : SA-92-255.28 Commitment Register Number : Related SER : 17.3 SSER :22 17.3 SER/SSER Impact : No
Table 17A-1	4	See Sheet No(s) :47 Adds I.D.2 to Reference Section column for SPDS/ERF Computer. Addition : Relocation of a portion of Q260.1 response to FSAR text in preparation for the USAR. Change Request Number : SA-92-255.29 Commitment Register Number : Related SER : 17.3 SSER :22 17.3 SER/SSER Impact : No
Table 17A-1	4	See Sheet No(s) :53 Clarifies reference to IEEE 387. Clarification : Relocation of a portion of Q260.1 response to FSAR text in preparation for the USAR. Change Request Number : SA-92-255.30 Commitment Register Number : Related SER : 17.3 SSER :22 17.3 SER/SSER Impact : No
Table 17A-1	4	See Sheet No(s) :53 Replaces the word "portions" with the word "requirements" when referring to the QA criteria in 10 CFR 50, Appendix B. Correction : Corrects wording based on information contained in Q&R 260.1. Change Request Number : SA-92-255.31 Commitment Register Number : Related SER : 17.3 SSER :22 17.3 SER/SSER Impact : No
Table 17A-1	4	See Sheet No(s) :53 Adds the following sentence to Note 28: This note applies to the damaged fuel container described in Section 9.1. Addition : Relocation of a portion of Q260.1 response to FSAR text in preparation for the USAR. Change Request Number : SA-92-255.32 Commitment Register Number : Related SER : 17.3 SSER :22 17.3

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SER/SSER Impact : No

Table 17A-1	4	<p>See Sheet No(s) :54 Adds information to Note 34 concerning level of compliance with BTP ESTB 11-1, Revision 1. Addition : Relocation of a portion of Q320.1 response to FSAR text in preparation for the USAR. Change Request Number : 3A-92-276.3 Commitment Register Number : Related SER : 11.2 SSER :22 11.2 SER/SSER Impact : No</p>
Table 17A-1	4	<p>See Sheet No(s) :57 Adds example to Note 63. Addition : Note 63 applies to both removable precast block walls and gypsum walls, and the note is appropriately worded to cover both types of walls. Information from Q130.36 response, which applies specifically to removable blocks, is moved to this note as an example in preparation for the USAR. Change Request Number : SA-92-353.6 Commitment Register Number : Y6-7619 Related SER : 3.8.3 SSER :24 APP-C.7 SER/SSER Impact : No</p>
Table 17A-1	4	<p>See Sheet No(s) :60 Adds Note 83, which discusses manufacturer's standards (as opposed to that in ASME VIII) used in the design of radiation monitors. Addition : Relocation of a portion of Q320.1 response to FSAR text in preparation for the USAR. Change Request Number : SA-92-276.4 Commitment Register Number : Related SER : 11.2 SSER :22 11.2 SER/SSER Impact : No</p>
II.B-4	4	<p>Adds information on the plant shielding review, and QA requirements for the design changes resulting from this study as well as changes or modifications to shielding during operations. Addition : Relocation of a portion of Q260.1 response to FSAR text in preparation for the USAR. Change Request Number : SA-92-255.8 Commitment Register Number : X2-0098/X2-0099 Related SER : 17.3 SSER :22 17.3 SER/SSER Impact : No</p>
II.E-2	4	<p>Adds the following sentence to a discussion of the auxiliary feedwater system reliability analysis: The</p>

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evaluation is a non-nuclear-safety-related study,
and is not subject to Quality Assurance.

Addition :

Relocation of a portion of Q260.1 response to FSAR
text in preparation for the USAR.

Change Request Number : SA-92-255.9

Commitment Register Number :

Related SER : 17.3 SSER :22 17.3

SER/SSER Impact : No

II.E-5

4

Notes that no design changes were required as a
result of the auxiliary feedwater system reliability
analysis.

Addition :

Relocation of a portion of Q260.1 response to FSAR
text in preparation for the USAR.

Change Request Number : SA-92-255.10

Commitment Register Number :

Related SER : 17.3 SSER :22 17.3

SER/SSER Impact : No

II.E-19

4

Adds information on the design of auxiliary
feedwater system initiation. Notes that no design
changes were required as a result of the related
Action Plan requirement. References components
listed in Table 17A-1.

Addition :

Relocation of a portion of Q260.1 response to FSAR
text in preparation for the USAR.

Change Request Number : SA-92-255.11

Commitment Register Number :

Related SER : 17.3 SSER :22 17.3

SER/SSER Impact : No

II.E-24

4

Adds information on the design of auxiliary
feedwater system flow. Notes that no design changes
were required as a result of the related Action Plan
requirement. References components listed in Table
17A-1.

Addition :

Relocation of a portion of Q260.1 response to FSAR
text in preparation for the USAR.

Change Request Number : SA-92-255.12

Commitment Register Number :

Related SER : 17.3 SSER :22 17.3

SER/SSER Impact : No

4

Adds the following sentence: The power supplies for
the PORVs and block valves are listed appropriately
in Table 17A-1.

Addition :

Relocation of a portion of Q260.1 response to FSAR
text in preparation for the USAR.

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		Change Request Number : SA-92-255.13
		Commitment Register Number :
		Related SER : 17.3 SSER :22 17.3
		SER/SSER Impact : No
II.K-15	4	Adds the following sentence: The components described are covered under the appropriate items in Table 17A-1. Addition : Relocation of a portion of Q260.1 response to FSAR text in preparation for the USAR. Change Request Number : SA-92-255.15 Commitment Register Number : Related SER : 17.3 SSER :22 17.3 SER/SSER Impact : No
III.A-11	4	Adds the following sentence: The TSC, as described herein, is included under the appropriate items in Table 17A-1. Addition : Relocation of a portion of Q260.1 response to FSAR text in preparation for the USAR. Change Request Number : SA-92-255.16 Commitment Register Number : Related SER : 17.3 SSER :22 17.3 SER/SSER Impact : No
III.A-22	4	Adds information which responds to certain safety questions associated with the SPDS, and provides a reference to Revision 3 of the SPDS Safety Analysis Report. Addition : Relocation of a portion of Q033.1 response to FSAR text in preparation for the USAR. Change Request Number : SA-92-44.2 Commitment Register Number : Y6-7612 Related SER : I.D.2 SSER :22 I.D.2 SER/SSER Impact : No
III.A-27	4	Adds information on design requirements for the SPDS. Addition : Relocation of a portion of Q260.1 response to FSAR text in preparation for the USAR. SPDS QA requirements are already addressed in Table 17A-1. Change Request Number : SA-92-255.17 Commitment Register Number : X2-0097 Related SER : 17.3 SSER :22 17.3 SER/SSER Impact : No
III.A-28	4	See Sheet No(s) :29 Replaces sentence on the isolation of signals with a discussion of the isolation of the SPDS from safety-

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(as amended)

Group Description

related devices having input to the SPDS computer system.

Revision :

Relocation of a portion of Q033.1 response to FSAR text in preparation for the USAR.

Change Request Number : SA-92-44.3

Commitment Register Number :

Related SER : I.D.2 SSER :22 I.D.2

SER/SSER Impact : No

III.A-30

- 4 Adds references to the submittals of the SPDS Safety Analysis Report, Revision 3, and Core Cooling Monitor (CCM) Isolator Test Report, to the end of Section III.A.1.2.

Addition :

Relocation of a portion of Q033.1 response to FSAR text in preparation for the USAR.

Change Request Number : SA-92-44.4

Commitment Register Number : Y6-7612

Related SER : I.D.2 SSER :22 I.D.2

SER/SSER Impact : No

III.A-32

- 4 Adds information on QA requirements for activities, equipment, facilities and instruments necessary to implement the Emergency Plan.

Addition :

Relocation of a portion of Q260.1 response to FSAR text in preparation for the USAR.

Change Request Number : SA-92-255.18

Commitment Register Number : X2-0104/X2-0107

Related SER : 17.3 SSER :22 17.3

SER/SSEK Impact : No

III.D-7

- 4 Adds information on the design and QA requirements for stationary and portable monitors.

Addition :

Relocation of a portion of Q260.1 response to FSAR text in preparation for the USAR.

Change Request Number : SA-92-255.19

Commitment Register Number : X2-0090

Related SER : 17.3 SSER :22 17.3

SER/SSER Impact : No

III.D-11

- 4 Adds the following sentence to the discussion on Control Room habitability: Items described in this response are listed, as appropriate, in Table 17A-1 under Items 23, 36, 37, 38 and 41.

Addition :

Relocation of a portion of Q260.1 response to FSAR text in preparation for the USAR.

Change Request Number : SA-92-255.20

Commitment Register Number :

Related SER : 17.3 SSER :22 17.3

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SER/SSER Impact : No

Q&R 010-1

- 4 Deletes response to Q010.1 and replaces it with a reference to where the information has been relocated in the FSAR text. The information related to the description of the break exclusion area and design of the piping in the area has been relocated. The remaining information concerning the basis for not postulating breaks or cracks is superceded by the response to Q010.20. The response to Q010.20 has been relocated to FSAR Section 3.6B.1.2.3.

Q&R Incorporation :

This information is being relocated to the FSAR text as part of the process to convert the FSAR into an "updated FSAR" as required by 10CFR50.71(e).

Change Request Number : SA-92-564.

Commitment Register Number :

Related SER : 3.6 SSER :22 3.6.2

SER/SSER Impact : No

Q&R 010-4

- 4 See Sheet No(s) :5, 6 & 7
Replaces a portion of the response to Q010.3, concerning the consequences of, and response time to, a loss of Component Cooling Water (CCW) to the Reactor Coolant Pumps (RCPs), with a reference to FSAR Section 9.2.2. Adds a note stating that the remaining information will not be incorporated into the updated FSAR text. Also adds appropriate Q&R margin notations to identify location of incorporation.

Q&R Incorporation :

This is an editorial change to this response in preparation for deletion of the Q&R Section when the updated FSAR is prepared. CCW System description and design bases are already adequately addressed within FSAR Section 9.2.2. Portions of the response to Q010.3 are moved to Section 9.2.2 to allow parts of the response to be replaced with a reference to this Section. Information in this response, concerning the consequences of, and response time to, a loss of Component Cooling Water (CCW) to the Reactor Coolant Pumps (RCPs), is now adequately addressed within FSAR text. The remainder of this response, re: the NRC's technical position for general consideration of operator action in the design of fluid systems, was a point-in-time response to further explain CPSES design & response time and as a result facilitate the staff's review. As such, it is beyond the level of detail appropriate for the FSAR. Thus, the remaining information need not be incorporated into the updated FSAR text.

Change Request Number : SA-92-9.1

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	Commitment Register Number : Related SER : 9.2.2 SSER :22 9.2.2 SER/SSER Impact : No
Q&R 010-10	4 See Sheet No(s) :11 Replaces response to Q010.6, concerning Fire Protection System piping, with a reference to FSAR Section 9.5.1. Also adds appropriate Q&R margin notations to identify location of incorporation. Q&R Incorporation : Q&R relocation is being performed to prepare the FSAR for the USAR. Change Request Number : SA-92-12.1 Commitment Register Number : Y6-7602 Related SER : 9.5.1 SSER :12 9.5.1 SER/SSER Impact : No
Q&R 010-13	4 See Sheet No(s) :14 Adds note indicating that the response to the NRC question will not be incorporated into the updated FSAR text. Q&R Incorporation : The response to Q010.7 was superceded by the response to Q010.20. The response to Q010.20 is incorporated into FSAR Section 3.6B.1.2.3. Change Request Number : SA-92-564. Commitment Register Number : Related SER : 3.6 SSER :22 3.6.2 SER/SSER Impact : No
Q&R 010-20	4 Replaces response to Q010.13, concerning ability of compartments housing safety-related components to accommodate a design basis flood and effect on plant safety of a water storage tank rupture, with references to FSAR Sections 3.4.3, 9.3.3.2 & 9.3.3.3. Also adds appropriate Q&R margin notations to identify location of incorporation. Q&R Incorporation : Q&R relocation is being performed to prepare the FSAR for the USAR. Change Request Number : SA-92-17.1 Commitment Register Number : Related SER : 9.3.3 SSER :06 9.3.3 SER/SSER Impact : No
Q&R 010-27	4 See Sheet No(s) :28 Deletes response to Q010.20 and replaces it with a reference to where the information has been relocated in the FSAR text. Q&R Incorporation : This information is being relocated to the FSAR text as part of the process to convert the FSAR into an "updated FSAR" as required by 10CFR50.71(e).

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Change Request Number : SA-92-564.
Commitment Register Number :
Related SER : 3.6 SSER :22 3.6.2
SER/SSER Impact : No

Q&R 010-29

4

Replaces response to Q010.21, concerning ability of compartments housing safety-related components to accommodate a design basis flood and impact of safe shutdown earthquake on operability of backwater valves, with references to FSAR Sections 3.6B.1 & 9.3.3.3. Also adds appropriate Q&R margin notations to identify location of incorporation.

Q&R Incorporation :

Q&R relocation is being performed to prepare the FSAR for the USAR.

Change Request Number : SA-92-17.2
Commitment Register Number :
Related SER : 9.3.3 SSER :06 9.3.3
SER/SSER Impact : No

Q&R Table 010.20-2

4

Deletes Table 010.20-2.

Q&R Incorporation :

The contents of Table 010.20-2 have been relocated to new Table 3.6B-6. This information is being relocated to the FSAR text as part of the process to convert the FSAR into an "updated FSAR" as required by 10CFR50.71(e).

Charge Request Number : SA-92-564.
Commitment Register Number :
Related SER : 3.6 SSER :22 3.6.2
SER/SSER Impact : No

Q&R Table 010.20-3

4

Deletes Table 010.20-3.

Q&R Incorporation :

The contents of Table 010.20-3 have been relocated to new Table 3.6B-7. This information is being relocated to the FSAR text as part of the process to convert the FSAR into an "updated FSAR" as required by 10CFR50.71(e).

Change Request Number : SA-92-564.
Commitment Register Number :
Related SER : 3.6 SSER :22 3.6.2
SER/SSER Impact : No

Q&R Table 010.20-4

4

Deletes Table 010.20-4.

Q&R Incorporation :

The contents of Table 010.20-4 have been relocated to new Table 3.6B-8. This information is being relocated to the FSAR text as part of the process to convert the FSAR into an "updated FSAR" as required by 10CFR50.71(e).

Change Request Number : SA-92-564.
Commitment Register Number :

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Related SER : 3.6 SSER :22 3.6.2
 SER/SSER Impact : No

Q&R Figure 010.20-2 4 Deletes Figure 010.20-2.
 Q&R Incorporation :
 The contents of Figure 010.20-2 have been relocated to new Figure 3.6B-207. This information is being relocated to the FSAR as part of the process to convert the FSAR into an "updated FSAR" as required by 10CFR50.71(e).
 Change Request Number : SA-92-564.
 Commitment Register Number :
 Related SER : 3.6 SSER :22 3.6.2
 SER/SSER Impact : No

Q&R Figure 010.20-3 4 Deletes Figure 010.20-3.
 Q&R Incorporation :
 The contents of Figure 010.20-3 have been relocated to new Figure 3.6B-208. This information is being relocated to the FSAR as part of the process to convert the FSAR into an "updated FSAR" as required by 10CFR50.71(e).
 Change Request Number : SA-92-564.
 Commitment Register Number :
 Related SER : 3.6 SSER :22 3.6.2
 SER/SSER Impact : No

Q&R 022-1 4 See Sheet No(s) :2, 3 & 4
 Replaces a portion of the response to Q022.1, concerning the main steam line break analysis, with references to FSAR Section 6.2.1, Tables 6.2.1-10 & -105, and Figures 6.2.1-15, -16, -17 & -20, and revises Section 6.2.1 to incorporate any previously unincorporated information. Deletes a summary of NUREG-0318. Adds a note stating that the remaining information will not be incorporated into the updated FSAR text. Also adds appropriate Q&R margin notations to identify location of Q&R incorporation.
 Q&R Incorporation :
 This is an editorial change to this response in preparation for deletion of the Q&R Section when the updated FSAR is prepared. The first three sentences in R022.1(2) are adequately addressed in FSAR Sections 6.2.1.1.3.2 (maximum calculated temperature & pressure, temperature transient, structural heat transfer coefficient & pressure transient) and 6.2.1.1.3.8 (chronology of events). Information on the containment liner temperature transient is adequately addressed in Figure 6.2.1-17. The remainder of R022.1(2) refers to a Figure (6.2.1-16A), which has since been deleted (Amendment 69). Information from the deleted figure is now contained in Table 6.2.1-105 (containment energy

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distribution); this Table is currently referenced within Section 6.2.1.1.3.2. Two figures (6.2.1-18 & -19) referenced in R022.1(3) were also deleted in Amendment 69 (LDCR# SA-88-114 -- TUS-88199); after the re-performance of the analysis using the Stone & Webster LOCTIC computer code, these figures became obsolete and were deemed to be not significant enough to update. Therefore, it is not appropriate to include references to these figures in the updated FSAR.

-
Content of the first two paragraphs of R022.1(1) is moved to Section 6.2.1.4.3; the reference within R022.1(1) is incorporated into the list of references at the end of Section 6.2.1; and, a portion of R022.1(3), re: design temperature of containment structure & safety-related instrumentation inside containment, is incorporated in Section 6.2.1.1.3.2, to allow these parts of the response to be replaced with a reference to Section 6.2.1. Information in this response concerning the main steam line break analysis is now adequately addressed by the revised Section 6.2.1. The remainder of R022.1(1) 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. The remainder of R022.1(3) notes that "the qualification of safety-related equipment located inside the containment will be further addressed in response to Question 022.2"; See justification for incorporation of Q022.2 on page 022-12. Thus, the remaining information in the response will not need to be incorporated into the updated FSAR text.

Change Request Number : SA-92-43.1
Commitment Register Number : Y6-7605
Related SER : 6.2.1 SSER :22 6.2.1
SER/SSER Impact : No

Q&R 022-12

4

See Sheet No(s) :13 thru 18
Replaces portions of the response to Q022.2, concerning environmental qualification of equipment, equipment required to be operational in the event of an MSLB, containment environmental response in the analysis of the MSLB accident, and safety-related component thermal analyses, including the peak containment vapor temperature for the design basis MSLB, with references to FSAR Sections 3.11N, 3.11B, 6.2.1.1.3, 6.2.1.4, 7.5 & 15.1.5.1, Tables 6.2.1-2A, -6 & -8, 15.1-2, and Figures 6.2.1-15 & -16. Adds a note to the response stating that the remaining information will not be incorporated into the updated FSAR text. Also adds appropriate Q&R margin

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notations to identify location of incorporation.
Q&R Incorporation :

This is an editorial change to this response in preparation for deletion of the Q&R Section when the updated FSAR is prepared. Information in the response to Q022.2 is already adequately addressed within FSAR Sections 3.11N, 6.2.1.1.3, 6.2.1.4 & 7.5, Tables 6.2.1-2A, -6 & -8, and Figures 6.2.1-15 & -16. Information in the response, re: qualification of containment electrical penetrations & their header plate assemblies, and equipment required to be operational in the event of an MSLB, is moved to FSAR Section 3.11B, and Section 15.1.5.1 & Table 15.1-2, respectively, to allow parts of this response to be replaced with references to these Sections and Table. Information in this response, concerning environmental qualification of equipment, equipment required to be operational in the event of an MSLB, containment environmental response in the analysis of the MSLB accident, and safety-related component thermal analyses, including the peak containment vapor temperature for the design basis MSLB, is now adequately addressed within FSAR test. The remainder of the response is comprised of specific information associated with the containment environmental response in the analysis of the MSLB accident, and the peak containment vapor temperature for the design basis MSLB. With regard to the former, containment spray system actuation information has been significantly revised since the submittal of this response; the updated information is contained within Section 6.1.2.4.8.5. Information on heat sink condensate treatment and the heat sink surface area provided a point-in-time response to facilitate the staff's review, and is beyond the level of detail appropriate for the FSAR. With regard to the peak containment vapor temperature for the design basis MSLB, a more specific peak containment vapor temperature appears in Section 3.11N.2 and Table 6.2.1-2A (344.5F) than that given in the Q&R response. Thus, the remaining information, as described above, need not be incorporated into the updated FSAR text.

Change Request Number : SA-91-152.1
Commitment Register Number : X1-0757/Y6-0969/Y6-0970..
Related SER : 3.11 SSER :22 3.11
SER/SSER Impact : No

Q&R 022-30

4

See Sheet No(s) :31, 32 & 33
Replaces part of Q022.8 response, concerning containment purge and pressure relief systems, with references to FSAR Sections 3.2.2, 3.9B.3.2, 6.2.4, Table 6.2.4-3, 9.4A.1, 9.4A.2, Figure 9.4-6 &

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15.6.5, and revises Sections 3.9B.3.2, 6.2.4, 9.4A.1, 9.4A.2 & 15.6.5 to incorporate information not previously incorporated. Adds note to Q022.8 stating that the remaining information, re: closure time of containment pressure relief isolation valves, will not be incorporated into the updated FSAR text. Relocates two sentences re: pressure relief line penetration within Section 9.4A.2.6. Also, adds appropriate Q&R margin notations to identify location of prior Q&R incorporation.

Q&R Incorporation :

This is an editorial change to this response in preparation for deletion of the Q&R Section when the updated FSAR is prepared. Portions of the Q022.8 response are already adequately addressed in FSAR Sections 3.2.2 (classification of containment isolation valves for pressure relief & purge systems), 3.9B.3.2 (performance & reliability of pressure relief and containment purge isolation valves), 6.2.4 (performance/reliability of pressure relief and containment purge isolation valves; design of pressure relief valves to close during a LOCA; classification of containment isolation valves; provisions for ensuring closure of containment pressure relief isolation valves; provisions for testing containment isolation valves; leak rates for closed isolation valves), 9.4A.2.6 (design of pressure relief valves to close during a LOCA, and protection of structures & equipment from escaping air & steam), 15.6.5.4 (analysis re: environmental consequences of release through containment pressure relief line), Table 6.2.4-3 (valve closure times) & Figure 9.4-6 (penetration required for pressure relief system).

Additional information in this response, concerning the closure time of containment pressure relief isolation valves (5 seconds or less), was revised per LDCR# SA-88-307 (TUS-88266) (3 seconds or less) & inserted via prior amendments/revisions into FSAR Section 9.4A.2.6, Table 6.2.4-3 & TRM Table 2.1.1; this change appropriately was not reflected in FSAR Section 6.2.4 (where containment isolation valves are discussed in general), or in this response. Superseded information in this response re: closure time of containment pressure relief isolation valves, will not need to be incorporated into the updated FSAR text.

The remaining information, concerning containment purge and pressure relief systems, is moved to FSAR Sections 3.9B.3.2, 6.2.4, 9.4A.1, 9.4A.2 & 15.6.5 to allow the remainder of this response to be replaced,

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as appropriate, with references to these Sections. -
Finally, relocation of the two sentences within
Section 9.4A.2.6 is an editorial enhancement.

Change Request Number : SA-92-45.1
Commitment Register Number :
Related SER : 6.2.3 SSER :23 6.2.3
SER/SSER Impact : No

Q&R 022-50

4

See Sheet No(s) :51 & 52

Replaces part of the Q022.20 response, concerning containment purge and pressure relief systems, with references to FSAR Sections 9.4A.1 & 9.4A.2, Table 6.2.4-2, and Technical Specifications 3/4.6.1 & 3/4.6.3, and revises Section 9.4A.2 & Table 6.2.4-2 to incorporate information not previously incorporated. Adds a note to the response stating that the remaining information, re: allowable leakage rate of the vent isolation valves to be met by the manufacturer, analysis of reduction in containment pressure resulting from partial loss of containment atmosphere following a LOCA, frequency of leak testing of containment pressure relief isolation valves, and limit on the usage of the containment pressure relief system, will not be incorporated into the updated FSAR text. Also, adds appropriate Q&R margin notations to identify location of prior Q&R incorporation.

Q&R Incorporation :

This is an editorial change to this response in preparation for deletion of the Q&R Section when the updated FSAR is prepared. Portions of Q022.20 are adequately addressed in FSAR Section 6.2.6.3 (plant surveillance tests using air or nitrogen), 15.6.5 (analysis re: environmental consequences of release through containment pressure relief line), and Technical Specifications 3/4.6.1.7 & its Bases (limit of containment purge system operation to cold shutdown & refueling; leak testing of valves), and 3/4.6.1.2 (plant surveillance tests using air or nitrogen).

Information in this response, re: allowable leakage rate of the vent isolation valves to be met by the manufacturer and additional information concerning analysis of reduction in containment pressure resulting from partial loss of containment atmosphere following a LOCA, were point-in-time responses to facilitate the staff's review and are beyond the level of detail which is appropriate for the FSAR. Thus, this information will not need to be incorporated into the updated FSAR text. The response, also, states that leak testing frequency of containment pressure relief isolation valves will

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be a minimum of once every six months; according to Tech Spec 4.6.1.7.3, testing is a minimum of once every 92 days. (The updated testing value is reflected adequately in Tech Specs.) In addition, statements made in this response concerning Technical Specification information to be provided re: limit on operation of containment pressure relief system will not be incorporated into the FSAR, since these statements have also been superceded; in SSER 23, Section 6.2.3, the staff noted that a design change had made the time restriction on system usage unnecessary. The design change is incorporated into Section 9.4A.1.6 as part of this LDCR. Since it is not appropriate to include superceded information in FSAR text, this information will not need to be incorporated into the updated FSAR text.

The remaining information, concerning containment purge and pressure relief systems, is moved to FSAR Sections 9.4A.1, 9.4A.2 & Table 6.2.4-2 to allow the remainder of this response to be replaced, as appropriate, with references to these Sections.

Change Request Number : SA-92-45.2
Commitment Register Number :
Related SER : 6.2.3 SSER :23 6.2.3
SER/SSER Impact : No

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4

See Sheet No(s) :54
Replaces response to Q022.21, concerning the function of the RHR suction line isolation valve arrangement and related General Design Criteria, with references to FSAR Sections 5.4.7.2.4 & 6.2.4.1.3.5. Also adds appropriate Q&R margin notations to identify location of incorporation.
Q&R Incorporation :

Q&R relocation is being performed to prepare the FSAR for the USAR.

Change Request Number : SA-92-75.1
Commitment Register Number :
Related SER : 5.4.3 SSER :22 5.4.3
SER/SSER Impact : No

Q&R 032-15

4

See Sheet No(s) :16
Replaces the response to Q032.15, concerning the prevention of certain problems identified at other operating plants in the area of solid state logic testing, with a reference to FSAR Section 7.2.1.1.7.
Q&R Incorporation :

Q&R relocation is being performed to prepare the FSAR for the USAR.

Change Request Number : SA-92-85.1
Commitment Register Number :

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	Related SER : 7.2.3 SSER :22 7.2.3 SER/SSER Impact : No
Q&R 032-22	4 Replaces response to Q032.21, concerning power interruption to engineered safety features system in conjunction with a LOCA or other postulated accident, with a reference to FSAR Section 7.3.1.1.5. Q&R Incorporation : Q&R relocation is being performed to prepare the FSAR for the USAR. Change Request Number : SA-92-89.1 Commitment Register Number : OP-0297 Related SER : 7.3.1 SSER :22 7.3.1 SER/SSER Impact : No
Q&R 032-40	4 Replaces response to Q32.36, concerning criteria for installation and routing of instrumentation and control circuitries between remote shutdown panels and the main Control Room control boards & transfer of control of equipment, having local controls outside the Control Room, from the Control Room to a local station, with references to FSAR Sections 7.4.1.3 & 8.3.1.4, and Table 1.7-1. Also adds an appropriate Q&R margin notation to identify location of the Q&R material referenced. Q&R Incorporation : Q&R relocation is being performed to prepare the FSAR for the USAR. Change Request Number : SA-92-98.1 Commitment Register Number : Related SER : 7.4.2 SSER : 8.3.1 SER/SSER Impact : No
Q&R 032-43	4 See Sheet No(s) :44 Replaces response to Q032.39, concerning the technical concept for testing flux rate trips while the plant is at power, with a reference to FSAR Section 7.2.2.2.3. Q&R Incorporation : Q&R relocation is being performed to prepare the FSAR for the USAR. Change Request Number : SA-92-100.1 Commitment Register Number : RE-0217 Related SER : 7.2.3 SSER :22 7.2.3 SER/SSER Impact : No
Q&R 032-045	4 Replaces portions of the response to Q032.40, concerning reactor trip on turbine trip circuitry & circuitries from Reactor Trip System to the BOP devices in the Turbine/Auxiliary Building, with a reference to FSAR Section 7.2.1.1.2.6. Adds a note stating that the remaining information will not be

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incorporated into the updated FSAR text. Also adds appropriate Q&R margin notations to identify location of incorporation.

Q&R Incorporation :

This is an editorial change to this response in preparation for deletion of the Q&R Section when the updated FSAR is prepared. Information in the first three sentences of the Q032.40 response (a) and in the one sentence comprising (b) are adequately addressed in FSAR Section 7.2.1.1.2.6. The fourth sentence in (a), "The conduits are shown on plant physical layout drawings." is moved to Section 7.2.1.1.2.6 to allow this response to be replaced with a reference to this Section. Information in this response, concerning reactor trip on turbine trip circuitry & circuitries from Reactor Trip System to the BOP devices in the Turbine/Auxiliary Building, is now adequately addressed within FSAR text. The last sentence in (a), stating that the drawings are available for NRC audit, provided a point-in-time elaboration on the information provided in the response and is assumed knowledge; therefore, it is not necessary for incorporation into the updated FSAR text.

Change Request Number : SA-92-101.1

Commitment Register Number :

Related SER : 7.2 SSER :22 7.2

SER/SSER Impact : No

Q&R 032-58

- 4 Replaces response to Q032.53, concerning operation of inverter system and its automatic transfer capability, with a reference to FSAR Section 7.6.1.2. Also adds appropriate Q&R margin notations to identify location of incorporation.

Q&R Incorporation :

Q&R relocation is being performed to prepare the FSAR for the USAR.

Change Request Number : SA-92-105.1

Commitment Register Number :

Related SER : 8.3.1 SSER :22 8.3.1

SER/SSER Impact : No

Q&R 032-62

- 4 See Sheet No(s) :63 & 64
Replaces portions of the response to Q032.56, concerning the "instrumentation upgrade package" & reactor trip on turbine trip circuitry, with references to FSAR Sections 7.1.2, 7.2.1.1.2, 7.2.1.1.4, 7.2.2.2, 7.7.1.3.6, 15.4.2 & 15.6.1. Adds a note to this response stating that the remaining information will not be incorporated into the updated FSAR text. Also adds appropriate Q&R margin notations to identify location of incorporation.

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Q&R Incorporation :

This is an editorial change to this response in preparation for deletion of the Q&R Section when the updated FSAR is prepared. Information on the hardware associated with the instrumentation upgrade package in the response to Q032.56 is adequately addressed in FSAR Sections 7.1.2, 7.2.1.1.2, 7.2.1.1.4, 7.2.2.2 & 7.7.1.3.6. Information from this response, re: analyses modified as a result of the upgrade package (uncontrolled RCCA bank withdrawal at power & inadvertent opening of a pressurizer safety or relief valve), is adequately addressed in FSAR Sections 15.4.2 & 15.6.1. Information from this response, concerning reactor trip on turbine trip, is already adequately addressed in FSAR Section 7.2.1.1.2.6. Information on the steam line breaks analyzed to determine requirements for the level of protection from thermal overpower trips is moved to Section 7.2.1.1.2 to allow this portion of the response to be replaced with a reference to this Section. Information in this response, concerning the "instrumentation upgrade package" & reactor trip on turbine trip circuitry, is now adequately addressed within FSAR text. The remainder of this response provided a point-in-time response to facilitate the staff's review of the instrumentation upgrade package, e.g., a listing of all events reanalyzed as a result of the package including those events which had no changes in transients, and is beyond the level of detail which is appropriate for the FSAR. Thus, the information in this response need not be incorporated into the updated FSAR text.

Change Request Number : SA-92-101.2

Commitment Register Number :

Related SER : 7.2 SSER :22 7.2

SER/SSER Impact : No

Q&R 032-66

4

See Sheet No(s) :67

Replaces a portion of the response to Q032.58, concerning the four section excore detectors and their calibration, with a reference to FSAR Section 7.7.1.3.1. Adds a note stating that the remaining information, including Figure 032.58-1, will not be incorporated into the updated FSAR text. Also adds appropriate Q&R margin notations to identify location of incorporation.

Q&R Incorporation :

This is an editorial change to this response in preparation for deletion of the Q&R Section when the updated FSAR is prepared. A portion of the response to Q032.58 is moved to FSAR Section 7.7.1.3.1 to allow part of the response to be replaced with a

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reference to this Section. Information in this response, concerning the four section excore detectors and their calibration, is now adequately addressed within FSAR text. The remainder of the response, including Figure 032.58-1, provided a point-in-time comparison between the four section excore detectors and the old two section detectors which resulted in their being deemed essentially the same, e.g., no effect on the high flux setpoints defined in Technical Specifications, similarity of axial offset signals from the two types of detectors as shown in the Figure. This comparison is considered to be historical information, and is beyond the level of detail appropriate for incorporation into the FSAR. Thus, this information, including Figure 032.58-1, need not be incorporated into the updated FSAR text.

Change Request Number : SA-92-109.1

Commitment Register Number : RE-0218

Related SER : 7.7 SSER :22 7.7

SER/SSER Impact : No

Q&R 032-94

4

See Sheet No(s) :95

Replaces the response to Q032.83, concerning manual reset and block functions for the Engineered Safety Features Actuation System, with a reference to FSAR Section 7.3.2.2.6.

Q&R Incorporation :

Q&R relocation is being performed to prepare the FSAR for the USAR.

Change Request Number : SA-92-116.1

Commitment Register Number :

Related SER : 7.3 SSER :22 7.3

SER/SSER Impact : No

Q&R 032-111

4

See Sheet No(s) :112

Replaces response to Q032.97, concerning balance of plant control systems that are not required for safety but interface with the protective system, with references to FSAR Sections 7.2.1.1.4.2, and 7.7.1.1 through 7.7.1.11 (with specific reference to 7.7.1.3.1, 7.7.1.3.6 & 7.7.1.11.2). Also adds appropriate Q&R margin notations to identify location of incorporation.

Q&R Incorporation :

Q&R relocation is being performed to prepare the FSAR for the USAR.

Change Request Number : SA-92-124.1

Commitment Register Number :

Related SER : 7.7 SSER :22 7.7

SER/SSER Impact : No

Q&R 032-115

4

See Sheet No(s) :116 & 117

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Replaces part of the response to Q032.100, concerning descriptive information on the solid-state safeguards sequencers (SSSS) with a reference to FSAR Section 8.3.1.1.5.3. Adds a note to this response stating that the remaining information will not be incorporated into the updated FSAR text. Also adds appropriate Q&R margin notations to identify location of incorporation.

Q&R Incorporation :

This is an editorial change to this response in preparation for deletion of the Q&R Section when the updated FSAR is prepared. A general description of the solid-state safeguards system sequencers (SSSS) provided in the first sentence of the first paragraph and in the second paragraph of the response to Q032.100 is already adequately addressed within FSAR Section 8.3.1.1.5.3. References to Figure Q032.100-1, and G&H schematic diagram drawing 2323-E1-0031, within response text are not being incorporated because they contain information designed for the staff's review which is beyond the level of detail appropriate for the FSAR. Thus, this information, need not be incorporated into the updated FSAR text. The remaining information in the response to Q032.100 is moved to FSAR Section 8.3.1.1.5.3 to allow these portions of this response to be replaced with a reference to this Section. Information in this response, concerning descriptive information on the SSSS, is now adequately addressed within FSAR text.

Change Request Number : SA-92-126.1
Commitment Register Number :
Related SER : 8.4.7 SSER :22 8.4.7
SER/SSER Impact : No

Q&R 032-119

4

Adds a note to the response to Q032.101 stating that the response will not be incorporated into the updated FSAR text. Also adds appropriate Q&R margin notations to identify location of related information.

Q&R Incorporation :

This is an editorial change to this response in preparation for deletion of the Q&R Section when the updated FSAR is prepared. The response to Q032.101 provided information on the design of the inoperable and bypass status light circuits, and its conformance with Regulatory Guide 1.47 and BTP ICSB 21. Specifically, it noted plant procedural response to unscheduled maintenance of the SIS Pump Room fan, and manual actuation of system level indication to achieve starter breaker open position inoperability indication. The response provided a detailed, point-in-time response to facilitate the

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NRC's review and is beyond the level of detail appropriate for the FSAR. Thus, this information need not be incorporated. Information in this response is already adequately addressed in a more general framework within FSAR Section 7.1.2.6.

Change Request Number : SA-92-127.1

Commitment Register Number :

Related SER : 7.1.2 SSER : 22 7.1.2

SER/SSER Impact : No

Q&R 032-124

4

See Sheet No(s) : 125 thru 132

Replaces portions of the response to Q032.103, concerning pressurizer and steam generator water levels and associated potential errors and biases, with references to FSAR Sections 7.2.2.3.4 & 7.2.2.3.5. Adds a note to the response stating that the remaining information will not be incorporated into the updated FSAR text.

Q&R Incorporation :

This is an editorial change to this response in preparation for deletion of the Q&R Section when the updated FSAR is prepared. Portions of the response to Q032.103 are moved to FSAR Sections 7.2.2.3.4 & 7.2.2.3.5 to allow parts of this response to be replaced with references to these Sections. Information in this response, concerning pressurizer and steam generator water levels and associated potential errors and biases, is now adequately addressed within FSAR text. The remainder of this response addressed the Westinghouse review to monitor protection system operability, specifically with regard to steam generator water level trip setpoints. This information provided a point-in-time response designed to facilitate the staff's review, and is beyond the level of detail which is appropriate for the FSAR. Thus, the remaining information in this response need not be incorporated into the updated FSAR text.

Change Request Number : SA-92-129.1

Commitment Register Number : OP-0293-001/002/NL-2646

Related SER : 7.2.2 SSER :

SER/SSER Impact : No

Q&R 032-137

4

See Sheet No(s) : 138

Replaces response to Q032.104, concerning potential design deficiencies in bypass, override and reset circuits of Engineered Safety Features, with references to FSAR Sections 7.1.2.6 & 7.3.1.1.4.2, Table 7.1-2 & Figure 7.2-1, Sheet 8. Also adds appropriate Q&R margin notations to identify location of incorporation.

Q&R Incorporation :

Description of the Safety System Inoperable

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Indication (SSII) is already adequately addressed in FSAR Section 7.1.2.6; SSII annunciation provided for the Containment Ventilation System is already adequately addressed in Section 7.3.1.1.4.2.c; the specific instrumentation logic discussed in the response to Q032.104 is already adequately depicted in Figure 7.2-1, Sheet 8; and, the non- safeguard, non-redundant, non-Class 1E radioactivity channel in the Containment Ventilation Isolation Logic is also adequately addressed in Table 7.1-2. The remainder of the response to Q032.104 is moved to Sections 7.1.2.6 & 7.3.1.1.4.2, as appropriate, to allow the response to be replaced in its entirety with references to these Sections, Table & Figure. Information in this response, concerning potential design deficiencies in bypass, override and reset circuits of Engineered Safety Features, is now adequately addressed within FSAR text.

Change Request Number : SA-92-130.1
Commitment Register Number : X2-0602/0603/X1-0804
Related SER : 7.3.1 SSER :02 7.3.2
SER/SSER Impact : No

Q&R 032-145

4

See Sheet No(s) :146

Replaces portions of the response to Q032.106, concerning review of Class 1E and non-Class 1E busses supplying power to safety and non-safety-related I&C systems which could affect the ability to achieve cold shutdown, and testing of system inverters during the Preoperational Test Program, with references to FSAR Section 7.4.2.3 & Table 14.2-2. Adds a note to the response stating that the remaining information will not be incorporated into the updated FSAR text. Also adds appropriate Q&R margin notations to identify location of Q&R incorporation.

Q&R Incorporation :

This is an editorial change to this response in preparation for deletion of the Q&R Section when the updated FSAR is prepared. Information in Q032.106 response, concerning testing of system inverters during the Preoperational Test Program, is already adequately addressed within Table 14.2-2. A portion of the response is moved to Section 7.4.2.3 (& a new subsection created) to allow this part of the response to be replaced with a reference to new Section 7.4.2.3.4. Information in this response, concerning review of Class 1E and non-Class 1E busses supplying power to safety and non-safety-related I&C systems which could affect the ability to achieve cold shutdown, is now adequately addressed within FSAR text. The remainder of this response was a point-in-time response (e.g., status

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and general conclusions of reviews) to facilitate the staff's review, and is beyond the level of detail which is appropriate for the FSAR. Thus, the remaining information need not be incorporated into the updated FSAR text.

Change Request Number : SA-92-131.1
Commitment Register Number : OP-0294/X1-0799
Related SER : 7.4 SSER : 8.3.1
SER/SSER Impact : No

Q&R 032-168

4

See Sheet No(s) :169

Replaces response to Q032.109, concerning use of a fourth signal in the steam generator level control system, with a reference to FSAR Section 7.2.2.3.5. Also adds appropriate Q&R margin notations to identify location of incorporation.

Q&R Incorporation :

Q&R relocation is being performed to prepare the FSAR for the USAR.

Change Request Number : SA-92-134.1
Commitment Register Number : OP-0280
Related SER : 7.3.1 SSER :03 7.3.1.5
SER/SSER Impact : No

Q&R Figure 032.058-1

4

Deletes figure, re: incore/excore axial offset correlation using standard long ion chambers and environmental directional short ion chambers. See note added to Q&R 032.58.

Q&R Incorporation :

This figure served as part of a point-in-time comparison between the four section excore detectors and the old two section detectors which resulted in the four section detectors being deemed essentially the same as the old detectors. This comparison is considered to be historical information, and is beyond the level of detail appropriate for incorporation into the FSAR. Thus, Figure 032.58-1 need not be incorporated the updated FSAR text. For further information, see SA-92-109.1.

Change Request Number : SA-92-109.2
Commitment Register Number :
Related SER : 7.7 SSER :22 7.7
SER/SSER Impact : No

Q&R Figure 032.100-1

4

Deletes Figure Q032.100-1, Front View of Control Panel.

Q&R Incorporation :

This figure contains information beyond the level of detail appropriate for the FSAR. Thus, this information need not be incorporated into the updated FSAR.

Change Request Number : SA-92-126.2
Commitment Register Number :

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		Related SER : 8.4.7 SSER :22 8.4.7 SER/SSER Impact : No
Q&R Figure 032.103-1	4	Replaces Q&R Figure 032.103-1, Bias Due to Steam Generator Reference Leg Heatup, with a reference to new FSAR Figure 7.2-4. Q&R Incorporation : Q&R relocation is being performed to prepare the FSAR for the USAR. Change Request Number : SA-92-129.2 Commitment Register Number : Related SER : 7.2.2 SSER : SER/SSER Impact : No
Q&R Figure 032.103-2	4	Replaces Q&R Figure 032.103-2, Bias Due to Steam Generator Pressure Change, with a reference to new FSAR Figure 7.2-5. Q&R Incorporation : Q&R relocation is being performed to prepare the FSAR for the USAR. Change Request Number : SA-92-129.3 Commitment Register Number : Related SER : 7.2.2 SSER : SER/SSER Impact : No
Q&R Figure 032.103-3	4	Replaces Q&R Figure 032.103-3, Bias Due to Pressurizer Pressure Change, with a reference to new FSAR Figure 7.2-6. Q&R Incorporation : Q&R relocation is being performed to prepare the FSAR for the USAK. Change Request Number : SA-92-129.4 Commitment Register Number : Related SER : 7.2.2 SSER : SER/SSER Impact : No
Q&R 033-3	4	See Sheet No(s) :4 Replaces portions of the response to Q033.1, concerning isolation of the SPDS from safety-related devices, and safety questions and safety analysis associated with the SPDS, with a reference to FSAR Section III.A.1.2, Subsections V.A & V.F. Adds a note to the response stating that the remaining information will not be incorporated into the updated FSAR. Also adds appropriate Q&R margin notations to identify location of incorporation. Q&R Incorporation : This is an editorial change to this response in preparation for deletion of the Q&R Section when the updated FSAR is prepared. A portion of the response to Q033.1 is moved to FSAR Section III.A.1.2, Subsections V.A & V.F to allow part of this response to be replaced with a reference to this Section.

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Information in this response, concerning isolation of the SPDS from safety-related devices, and safety questions and safety analysis associated with the SPDS, is now adequately addressed within FSAR text. The remaining information in the response contains details of dc to dc converter & optical isolator testing, and a statement noting that no changes to Technical Specifications have been effected by the SPDS addition. Testing details are contained within one of the references which has been incorporated into FSAR text; thus, this information need not be repeated in detail within FSAR text. The latter statement was a point-in-time response to facilitate the staff's review, and is also beyond the level of detail appropriate for the FSAR. Thus, this information need not be incorporated into the updated FSAR text.

Change Request Number : SA-92-44.1
Commitment Register Number : Y6-7612
Related SER : I.D.2 SSER :22 I.D.2
SER/SSER Impact : No

Q&R 040-1

- 4 See Sheet No(s) :2 thru 4
Replaces a portion of the response to Q040.1, concerning identification and analysis of electrical equipment, I&C circuits, and components located inside containment that may be submerged as a result of a LOCA, with a reference to FSAR Section 3.11B. Adds a note to the response stating that the remaining information will not be incorporated into the updated FSAR text.

Q&R Incorporation :

This is an editorial change to this response in preparation for deletion of the Q&R Section when the updated FSAR is prepared. A portion of the response to Q040.1 is moved to FSAR Section 3.11B to allow this part of the response to be replaced with a reference to this Section. Information in this response, concerning identification and analysis of electrical equipment, I&C circuits, and components located inside containment that may be submerged as a result of a LOCA, is now adequately addressed in FSAR text. The remainder of the response included specific information on the safety significance of the failure of electrical equipment as a result of flooding, the effects on Class 1E electrical power sources serving equipment undergoing submergence, and the listing of safety and non-safety equipment located below containment elevation 816'-10". Such information can be found in controlled documents, such as EEQSPs and DBDs, and is beyond the level of detail appropriate for the FSAR. Thus, this information need not be incorporated into the

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	updated FSAR text. Change Request Number : SA-92-135.1 Commitment Register Number : Y8-1168 Related SER : 3.11 SSER :06 3.11.3 SER/SSER Impact : No
Q&R 040-5	4 Deletes Table A, Safety Equipment Located Below Containment Elevation 816'-10". Q&R Incorporation : See justification for changes in page Q&R 040-1. Change Request Number : SA-92-135.2 Commitment Register Number : Related SER : 3.11 SSER :06 3.11.3 SER/SSER Impact : No
Q&R 040-6	4 See Sheet No(s) :7 Deletes Table B, Non-Safety Equipment Located Below Containment Elevation 816'-10". Q&R Incorporation : See justification for changes in page Q&R 040-1. Change Request Number : SA-92-135.3 Commitment Register Number : Related SER : 3.11 SSER :06 3.11.3 SER/SSER Impact : No
Q&R 040-40	4 Replaces the response to Q040.29, concerning missile protection of the Diesel Generator Combustion Air Intake and Exhaust System, with references to FSAR Section 9.5.8, and Figures 9.5-58 & -59. Also adds appropriate Q&R margin notations to identify location of incorporation. Q&R Incorporation : Q&R relocation is being performed to prepare the FSAR for the USAR. Change Request Number : SA-92-148.1 Commitment Register Number : Related SER : 9.5.8 SSER : SER/SSER Impact : No
Q&R 040-55	4 See Sheet No(s) :56 thru 59 Replaces portions of the response to Q040.40, concerning qualification testing of solid state safeguards system sequencer and solid state isolation equipment, with references to FSAR Sections 3.7B, 3.10B and 8.3.1.1.5.3. Adds a note stating that the remaining information will not be incorporated into the updated FSAR text. Also adds appropriate Q&R margin notations to identify location of incorporation. Q&R Incorporation : This is an editorial change to this response in preparation for deletion of the Q&R Section when the updated FSAR is prepared. Portions of the response

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to Q040.40(A) are moved to FSAR Section 8.3.1.1.5.3 to allow part of this response to be replaced with a reference to this Section. The remainder of the Q040.40(A) response cites specific seismic and environmental qualification reports and gives information on sequencer testing itself which provided a point-in-time response to facilitate the staff's review and is beyond the level of detail appropriate for incorporation into the FSAR. The information provided in Q040.40(B) response cites specific documents and information, re: solid state isolation equipment, which were submitted to the NRC via TXX-2979. This information also provided a point-in-time response to facilitate the staff's review and is beyond the level of detail appropriate for incorporation into the FSAR. Thus, this information need not be incorporated into the updated FSAR text. Qualification testing, in general, is already adequately addressed within Sections 3.7B & 3.10B. Therefore, information in this response, concerning qualification testing of solid state safeguards system sequencer and solid state isolation equipment, is now adequately addressed within FSAR text.

Change Request Number : SA-92-152.1
Commitment Register Number :
Related SER : 8.4.7 SSER :22 8.4.7
SER/SSER Impact : No

Q&R 040-98

4

See Sheet No(s) :99 thru 102

Replaces part of the response to Q040.68, concerning the manual and automatic design provisions for testing the solid-state safeguards sequencers (SSSS), with references to FSAR Sections 8.3.1.1.5.3 and 8.3.1.2.1. Revises these Sections to incorporate previously unincorporated information. Adds a note to this response stating that the remaining information will not be incorporated into the updated FSAR text. Also adds appropriate Q&R margin notations to identify location of incorporation.

Q&R Incorporation :

This is an editorial change to this response in preparation for deletion of the Q&R Section when the updated FSAR is prepared. The general description of the solid-state safeguards sequencers (SSSS) provided in the first two paragraphs of the response to Q040.68, is already adequately addressed within FSAR Section 8.3.1.1.5.3. References to Figures Q040.68-1 & -2 within response text is not being incorporated because it contains information designed for the staff's review which is beyond the level of detail appropriate for the FSAR.

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Information within the response to Q040.68, concerning the automatic test circuit description, related operating instructions and the automatic test sequence, is contained in controlled copies of vendor manuals and CPSES procedures maintained at the plant site; this specific information as provided in the response is far beyond the level of detail appropriate for the FSAR. Thus, the above detailed information need not be incorporated into the updated FSAR text. The remaining information in the response to Q040.68 is moved to FSAR Section 8.3.1.1.5.3 to allow portions of this response to be replaced with references to this Section. A sentence added to Section 8.3.1.2.1 simply connects this Section with the information on testing in Section 8.3.1.1.5.3. Information in this response, concerning the manual and automatic design provisions for testing SSSS, is now adequately addressed within FSAR text.

Change Request Number : SA-92-126.3
Commitment Register Number :
Related SER : 8.4.7 SSER :22 8.4.7
SER/SSER Impact : No

Q&R 040-142

4

See Sheet No(s) :143
Replaces the response to Q040.107, concerning routing of bus ducts & the requirement for separate independent circuits to onsite distribution systems, with references to FSAR Section 8.2.1 and Figure 8.2-11. Also adds appropriate Q&R margin notations to identify location of incorporation.

Q&R Incorporation :

Q&R relocation is being performed to prepare the FSAR for the USAR.

Change Request Number : SA-92-175.1
Commitment Register Number :
Related SER : 8.4.4 SSER : 8.4.6
SER/SSER Impact : No

Q&R 040-153

4

See Sheet No(s) :153a
Replaces portions of the response to Q040.115, re: diesel generator, with references to FSAR Sections 8.3.1.1.1, 8.3.1.1.4, 8.3.1.1.11 & 8.3.1.2.1.4, Tables 1.7-1 & -2, and new Figure 8.3- 19. Adds a note to the response stating that the remaining information will not be incorporated into the updated FSAR text. Also adds appropriate Q&R margin notations to identify location of Q&R incorporation.

Q&R Incorporation :

This is an editorial change to this response in preparation for deletion of the Q&R Section when the updated FSAR is prepared. Information in the response to Q040.115, concerning diesel generator

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operating features, including loading characteristics, voltage and frequency characteristic curves; interrupting capacity of switchgear, load centers, motor control centers and distribution panels; manual and automatic sequential loading and unloading circuits, grounding requirements, electrical protective relaying circuits and assigned control power supplies, is already adequately addressed in FSAR Sections 8.3.1.1.4, 8.3.1.1.11 & 8.3.1.2.1.4, and Tables 1.7-1 & -2. Portions of the response are moved to Sections 8.3.1.1.1 & 8.3.1.1.4, and Figure 8.3-19 is created, to allow parts of this response to be replaced with references to these Sections and Figure. Information in this response, re: manufacturers and model numbers for the diesel engine and generator, excitation system response time load variation, and a reference to starting initiation circuit drawings, is now adequately addressed within FSAR text. The remainder of the response, which includes Figures Q040.115-3 & 04, addresses the specifics of vendor testing which demonstrates the adequacy of CPSES diesel generator sets; the results of this testing is already discussed in Sections 8.3.1.1.11 and 8.3.1.2.1.4. This information as it is presented in the Q&R response provided extensive supporting detail designed to facilitate the staff's review, and is beyond the level of detail appropriate for the FSAR. Thus, this information need not be incorporated into the updated FSAR text.

Change Request Number : SA-92-180.1
Commitment Register Number : NL-0671
Related SER : 8.3.1 SSER :22 8.3.1
SER/SSER Impact : No

Q&R 040-159

- 4 See Sheet No(s) :160
Replaces response to Q040.118, concerning detection of ground fault condition in the 480-volt system or in the diesel generator system, its annunciation in the Control Room & resulting operator action (in general) with references to FSAR Sections 8.3.1.1.11, 8.3.1.1.12, 8.3.1.2.1.7.e & 13.5.2.1, Table 13.5-3, and Figures 8.3-6 (Sheets 1 & 2) & 8.3-8 (Sheets 1 & 2). Also adds appropriate Q&R margin notations to identify location of incorporation.

Q&R Incorporation :

This is an editorial change to this response in preparation for deletion of the Q&R Section when the updated FSAR is prepared. Information in the response to Q040.118, and that which is generally related, is already adequately addressed within FSAR

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(as amended)

Group Description

Sections 8.3.1.1.11 & 13.5.2.1, Table 13.5-3, and Figures 8.3-6 (Sheets 1 & 2) & 8.3-8 (Sheets 1 & 2). Information in this response, concerning a general description of 6900/480 volt transformers in the CPSES electrical distribution system, is also adequately addressed in Section 8.3.1.1.12. Information, re: means of detection of a ground fault on the 480-volt system & the diesel generator neutral ground system, is moved to Sections 8.3.1.1.12 & 8.3.1.2.1.7.e, respectively, to allow parts of this response to be replaced with references to these Sections. The remaining information concerning operator response is generically addressed within Sections 8.3.1.1.11 & 13.5.2.1; the routine operator actions described are controlled by administrative procedures, and are beyond the level of detail appropriate for the FSAR. Thus, this specific information need not be incorporated into the FSAR. Information in this response, concerning detection of ground fault condition in the 480-volt system or in the diesel generator system & its annunciation in the Control Room, is now adequately addressed within FSAR text.

Change Request Number : SA-92-182.1

Commitment Register Number :

Related SER : 8.3.1 SSER :22 8.3.1

SER/SSER Impact : No

Q&R 040-168

4

See Sheet No(s) :169 & 170

Replaces the response to Q040.125, concerning precautionary measures in place to assure the quality and reliability of the fuel oil supply for emergency diesel generator operation, with references to FSAR Sections 1A(B), 9.5.4.2.2 & 9.5.4.4. As part of the incorporation process, adds references to the list of references at the end of Section 9.5. Also adds Q&R margin notations to identify location of incorporation.

Q&R Incorporation :

Q&R relocation is being performed to prepare the FSAR for the USAR.

Change Request Number : SA-92-186.1

Commitment Register Number : RE-0220/Y6-3463/RE-0222..

Related SER : 9.5.4 SSER :22 9.5.4

SER/SSER Impact : No

Q&R Figure 040.068-1

4

Deletes Figure Q040.68-1, SSSS Block Diagram.

Q&R Incorporation :

This figure contains information beyond the level of detail appropriate for the FSAR. Thus, this information need not be incorporated into the updated FSAR. The functional logic diagram for the solid-state safeguards system sequencer is located

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(as amended)

Group Description

in Figure 8.3-4.
Change Request Number : SA-92-126.4
Commitment Register Number :
Related SER : 8.4.7 SSER :22 8.4.7
SER/SSER Impact : No

Q&R Figure 040.068-2 4 Deletes Figure Q040.68-2, Non-IE Isolation Block Diagram.
Q&R Incorporation :
This figure contains information beyond the level of detail appropriate for the FSAR. Thus, this information need not be incorporated into the updated FSAR. The functional logic diagram for the solid-state safeguards sequencer is located in Figure 8.3-4.
Change Request Number : SA-92-126.5
Commitment Register Number :
Related SER : 8.4.7 SSER :22 8.4.7
SER/SSER Impact : No

Q&R Figure 040.115-2 4 Replaces Figure Q040.115-2, Excitation Characteristic Curve, with a reference to new FSAR Figure 8.3-19.
Q&R Incorporation :
This is an editorial change in preparation for deletion of the Q&R Section when the updated FSAR is prepared. Movement of Figure Q040.115 to FSAR text allows this figure to be replaced with a reference to new Figure 8.3-19.
Change Request Number : SA-92-180.2
Commitment Register Number :
Related SER : 8.3.1 SSER :22 8.3.1
SER/SSER Impact : No

Q&R Figure 040.115-3 4 Deletes Figure 040.115-3, Strip Chart Scale Identification.
Q&R Incorporation :
See Justification for the change to page Q&R 040-153 (SA-92-180.1).
Change Request Number : SA-92-180.3
Commitment Register Number :
Related SER : 8.3.1 SSER :22 8.3.1
SER/SSER Impact : No

Q&R Figure 040.115-4 4 Deletes Figure Q040.115-4 (Sheets 1 & 2), Voltage and Frequency Response Curve.
Q&R Incorporation :
See Justification for the change to page Q&R 040-153 (SA-92-180.1).
Change Request Number : SA-92-180.4
Commitment Register Number :
Related SER : 8.3.1 SSER :22 8.3.1
SER/SSER Impact : No

FSAR Page
(as amended)

Group Description

Q&R 112-1

4

Replaces reference to FSAR Section 3.6B, within the response to Q112.1, with a more specific subject reference. Adds a note to the response stating that the remaining information will not be incorporated into the updated FSAR text. Also adds appropriate Q&R margin notation to identify location of incorporation.

Q&R Incorporation :

This is an editorial change to this response in preparation for deletion of the Q&R Section when the updated FSAR is prepared. Replacement of the reference to FSAR Section 3.6B, within the response to Q112.1, with a more specific subject reference is an editorial enhancement. The remainder of the response, which states that there are no ASME Class 1, 2 or 3 piping systems supplied by Westinghouse except for the Reactor Coolant System (as discussed in WCAP-8082), 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 need not be incorporated into the updated FSAR text.

Change Request Number : SA-92-292.1

Commitment Register Number :

Related SER : 3.6.1.1 SSER :

SER/SSER Impact : No

Q&R 112-7

4

Replaces a portion of the response to Q112.7, concerning justification for the use of the square root of the sum of the squares method of combining LOCA and SSE peak loads, with references to FSAR Section 3.9N.1.4.7 and Table 1.6-1. Adds a note stating that the remaining information will not be incorporated into the updated FSAR text.

Q&R Incorporation :

A portion of the response to Q112.7 is moved to FSAR Section 3.9N.1.4.7 and Table 1.6-1 (and the list of references at the end of Section 3.9N) to allow part of this response to be replaced with references to Section 3.9N.1.4.7 and Table 1.6-1. Information in the response, concerning justification for the use of the square root of the sum of the squares method of combining LOCA and SSE peak loads, is now adequately addressed in FSAR text. The remainder of the response was a point-in-time response to facilitate the staff's review, and contains outdated information. (The WCAPs have since been approved, as indicated by their inclusion in NUREG-0484, original & Revision 1, and RESAR-414.) Thus, the remaining information need not be incorporated into the updated FSAR text.

Change Request Number : SA-92-293.1

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(as amended)

Group Description

Commitment Register Number :
Related SER : 3.9 SSER :
SER/SSER Impact : No

Q&R 112-13

4

Replaces response to Q112.13 (NSSS) with a reference to the discussion of Regulatory Guide 1.124 in FSAR Appendix 1A(N), and revises this discussion to incorporate this information. Response to Q112.13 (BOP) is already adequately addressed in Section 3.9B.1.4. Also adds appropriate Q&R margin notations to identify location of Q&R incorporation.

Q&R Incorporation :

Q&R relocation is being performed to prepare the FSAR for the USAR.

Change Request Number : SA-92-294.1
Commitment Register Number : Y6-7615
Related SER : 3.9.3.1 SSER :23 3.9.3
SER/SSER Impact : No

Q&R 112-14

4

Makes editorial changes to the wording of the response to Q112.14, and adds appropriate Q&R margin notations to identify location of incorporation within FSAR text.

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. Changes to the response to Q112.14 are made for consistency and as an editorial enhancement. Information from this response is already adequately addressed within FSAR text, as follows: (1) Maximum stresses in the reactor coolant loop piping are summarized in FSAR Table 3.9N-21. (2) Maximum stresses in the reactor coolant loop supports are summarized in Tables 3.9N-14, -15, -16, -17 & -19. (3) Loading conditions and other considerations used in the reactor coolant loop and support analysis is discussed in Section 3.9N.1.4.

Change Request Number : SA-92-295.1
Commitment Register Number :
Related SER : 3.9 SSER :
SER/SSER Impact : No

Q&R 112-15

4

See Sheet No(s) :16

Replaces a portion of Q112.15 response, re: seismic qualification of mechanical & electrical equipment and the review status of WCAP-8587, with references to FSAR Sections 3.9N.2.2, 3.10N & Table 1.6-1. Adds a note to the response stating that the remaining information will not be incorporated into the updated FSAR text. Also adds appropriate Q&R margin notations to identify location of incorporation.

FSAR Page
(as amended)

Group Description

Q&R Incorporation :

This is an editorial change to this response in preparation for deletion of the Q&R Section when the updated FSAR is prepared. Methods used by Westinghouse for the seismic qualification of mechanical equipment had been already adequately addressed within FSAR Section 3.9N.2.2. A portion of the response to Q112.15 is moved to Sections 3.10N.1.1, 3.10N.5 & Table 1.6-1 (as updated) to allow this part of the response to be replaced with references to these Sections and Table. Information in this response, concerning seismic qualification of electrical equipment and the review status of WCAP-8587, is now adequately addressed within FSAR text. Remaining information in the response provided a point-in-time, historical response as to the review status of WCAP-8587 & its Supplement 1. This information was designed to facilitate the staff's review, and has been, in part, superceded by additional submittals. That which has not been superceded is beyond the level of detail appropriate for the FSAR. Thus, the remainder of this response need not be incorporated into the updated FSAR text.

Change Request Number : SA-92-296.1

Commitment Register Number : X1-0655

Related SER : 3.10 SSER :24 3.10

SER/SSER Impact : No

Q&R 112-18

- 4 Replaces response to Q112.17 (NSSS) with a reference to Section 3.9N.3.1.1, and revises Section 3.9N.3.1.1 to incorporate this information. Adds a note to the response to Q112.17 (BOP) stating that this information will not be incorporated into the updated FSAR. Also adds appropriate Q&R margin notations to identify location of Q&R incorporation.

Q&R Incorporation :

This is an editorial change to this response in preparation for deletion of the Q&R Section when the updated FSAR is prepared. A portion of the response to Q112.17 (NSSS), re: methods for combining loads for various plant conditions, is moved to Section 3.9N.3.1.1 to allow the response to be replaced with a reference to this Section. The remaining information contains BOP information which was superceded in FSAR Amendment 66 (see Section 3.9B.3.1); thus, this information will not need to be incorporated into the updated FSAR text.

Change Request Number : SA-92-294.2

Commitment Register Number :

Related SER : 3.9.3.1 SSER :23 3.9.3

SER/SSER Impact : No

Q&R 112-19

- 4 See Sheet No(s) :20

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 (as amended)

Group Description

Replaces response to Q112.18 (NSSS) with references to Sections 3.9N.3.1.1, 3.9N.3.1.2 & 3.9N.3.2 and Tables 3.9N-4, 3.9N-7 & 3.9N-9, and revises Sections 3.9N.3.1.2 and 3.9N.3.2 to incorporate previously unincorporated information. Replaces response to Q112.18 (BOP) with references to Sections 3.9B.3.1.1 & 3.9B.3.2 and Tables 3.9B-1C, -1D & -1E, and revises Section 3.9B.3.1.1 to incorporate previously unincorporated information. Also adds appropriate Q&R margin notations to identify location of incorporation.

Q&R Incorporation :

Q&R relocation is being performed to prepare the FSAR for the USAR.

Change Request Number : SA-92-294.3

Commitment Register Number : Y6-7616

Related SER : 3.9.3.1 SSER :23 3.9.3

SER/SSER Impact : No

Q&R 112-22

4

See Sheet No(s) :23, 24, 25, 26 & 27

Replaces response to Q112.19, concerning snubbers, with references to FSAR Sections 3.9N.1.4.4, 3.9B.1.2, 3.9B.3.4.2 & 5.4.14, Table 3.9N-15, and new Tables 3.9B-11 & 3.9B-12. Also adds appropriate Q&R margin notations to identify location of incorporation.

Q&R Incorporation :

Q&R relocation is being performed to prepare the FSAR for the USAR.

Change Request Number : SA-92-299.1

Commitment Register Number :

Related SER : 3.9.1 SSER : 3.9.3

SER/SSER Impact : No

Q&R 112-28

4

Replaces response to Q112.20 (NSSS), concerning use of standard component supports and their compliance with ASME B&FV Code, Section III, Subsection NF, with a reference to FSAR Section 3.9N.3.4.1. Also adds appropriate Q&R margin notations to identify location of incorporation.

Q&R Incorporation :

Response to Q112.20 (BOP) is already adequately addressed in FSAR Section 3.9B.3.4.1. Response to Q112.20 (NSSS) is moved to FSAR Section 3.9N.3.4.1 to allow this part of the response to be replaced with a reference to this Section. The information in this response, which relates to allowable stresses or load ratings for upset & emergency conditions for Class 2 & 3 standard component support design, is now adequately addressed within FSAR text.

Change Request Number : SA-92-300.1

Commitment Register Number :

FSAR Page
(as amended)

Group Description

Related SER : 3.9.3 SSER :23 3.9.3
SER/SSER Impact : No

Q&R 112-29

4

See Sheet No(s) :30 & 31
Replaces response to Q112.21 (NSSS) with references to Sections 3.9N.3.1.2 & 3.9N.3.2, and Tables 3.9N-3, 3.9N-7 & 3.9N-8, and revises Sections 3.9N.3.1.2 & 3.9N.3.2 to incorporate previously unincorporated information. Replaces response to Q112.21 (BOP) with references to Sections 3.9B.2.2 & 3.9B.3.2, and Tables 3.9B-2 & 3.9B-5. Also adds appropriate Q&R margin notations to identify location of incorporation.

Q&R Incorporation :

Q&R relocation is being performed to prepare the FSAR for the USAR.

Change Request Number : SA-92-294.4

Commitment Register Number :

Related SER : 3.9.3.2 SSER :22 3.9.3.2

SER/SSER Impact : No

Q&R 121-9

4

Adds a note to the response to Q121.5 stating that information in the response will not be incorporated into the updated FSAR text.

Q&R Incorporation :

This is an editorial change to this response in preparation for deletion of the Q&R Section when the updated FSAR is prepared. The response to Q121.5, which concerns a possible area of noncompliance with 10CFR50 Appendix G requirements, contains obsolete information. The response noted that seal housing bolting material qualification tests were performed in accordance with the 1971 Edition of the ASME Code Section III through the Summer 1973 Addendum requirements. These requirements differed from that required by the then current version of 10CFR50 Appendix G (25 mils lateral expansion with no ft-lb absorbed energy requirement vs. 25 mils lateral expansion and 45 ft-lbs in terms of Charpy V-notch tests). The current version of Appendix G does not contain this specific information, but refers extensively to the ASME Code. Based on the preceding information, the content of this Q&R response appears to be obsolete with regards to compliance with 10CFR50 Appendix G requirements, and beyond the level of detail appropriate for the FSAR with regards to the performance of the seal housing bolting material qualification tests. Thus, this information need not be incorporated into the updated FSAR text.

Change Request Number : SA-92-305.1

Commitment Register Number :

Related SER : 5.3.1 SSER :01 5.3.1

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(as amended)

Group Description

SER/SSER Impact : No

Q&R 121-11

4

Replaces a portion of the response to Q121.6, concerning compliance with 10CFR50 Appendix H, with a reference to FSAR Section 5.3.1.6, and adds a note stating that the remaining information, regarding an exception of Appendix H, will not be incorporated into the updated FSAR text. Also adds appropriate Q&R margin notation to identify location of incorporation.

Q&R Incorporation :

This is an editorial change to this response in preparation for deletion of the Q&R Section when the updated FSAR is prepared. A portion of the response, concerning compliance with 10CFR50 Appendix H, is already adequately incorporated in FSAR text; this allows that portion of the response to be replaced with a reference to FSAR Section 5.3.1.6. The remaining information, which discusses an exception to Appendix H, is no longer valid, since the subject paragraph (II.C.2) within Appendix H has since been revised. The paragraph no longer addresses neutron flux received by specimens. Thus, it is not appropriate to incorporate this outdated information within the updated FSAR text.

Change Request Number : SA-92-306.

Commitment Register Number :

Related SER : 5.3.1.2 SSER : 25 5.3.1.2

SER/SSER Impact : No

Q&R 121-22

4

Adds a note to the response to Q121.10, stating that information will not be incorporated into the updated FSAR text.

Q&R Incorporation :

This is an editorial change to this response in preparation for deletion of the Q&R Section when the updated FSAR is prepared. Information in the response to Q121.10 pertains to the specifics associated with the PSI Program. This detailed, historical information is most appropriately located within the Preservice Inspection Plan and related procedures, and is beyond the level of detail appropriate for the FSAR. Thus, this information need not be incorporated into the updated FSAR text.

Change Request Number : SA-92-308.1

Commitment Register Number :

Related SER : 5.2.4 SSER :

SER/SSER Impact : No

Q&R 121-24

4

Adds a note to the response to Q121.11, stating that information will not be incorporated into the updated FSAR text.

Q&R Incorporation :

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(as amended)

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This is an editorial change to this response in preparation for deletion of the Q&R Section when the updated FSAR is prepared. Information in the first paragraph of the response to Q121.11 pertains to the standard applicable to the PSI Program and the ultrasonic examination of piping system welds; the edition of Appendix III of Section XI has since been revised: 1980 Edition for Unit 1 & 1983 Edition for Unit 2. This is reflected in FSAR Sections 5.2.4 & 6.6.1, and a related commitment. Information in the second paragraph of this response, re: conduct of the preservice exam of piping system welds, is detailed, historical information, which is beyond the level of detail currently appropriate for the FSAR. Thus, neither paragraph needs to be incorporated into the updated FSAR text.

Change Request Number : SA-92-308.2
Commitment Register Number : ME-0234-002/-003
Related SER : 5.2.4 SSER :
SER/SSER Impact : No

Q&R 121-25

4

Adds a note to the response to Q121.12, stating that the information in these responses will not be incorporated into the updated FSAR text.

Q&R Incorporation :

This is an editorial change to this response in preparation for deletion of the Q&R Section when the updated FSAR is prepared. Information in the response to Q121.12 committed to provide a list to the NRC of all welds for which a complete Section XI preservice examination could not be performed in the following categories: B-J, C-F & C-G. This information was provided to the NRC via TXX-4290. (Note that category C-G had no such welds; therefore, it was not included in a submittal.) Information on the related relief requests are also included in the Preservice Inspection Plan. In addition, as stated in each response, information related to the limitations of the inspection performed is included in the appropriate weld inspection report form. The information in these responses provided a point-in-time response to facilitate the staff's review, and is beyond the level of detail appropriate for the FSAR. Thus, this information need not be incorporated into the updated FSAR text.

Change Request Number : SA-92-310.1
Commitment Register Number : ME-0235
Related SER : 5.2.4 SSER : 6.6
SER/SSER Impact : No

Q&R 121-26

4

Adds a note to the response to Q121.13, stating that the information in these responses will not be

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(as amended)

Group Description

incorporated into the updated FSAR text.

Q&R Incorporation :

This is an editorial change to this response in preparation for deletion of the Q&R Section when the updated FSAR is prepared. Information in the response to Q121.13 committed to provide a list to the NRC of all welds for which a complete Section XI preservice examination could not be performed in the following categories: B-D, B-F & C-A. This information was provided to the NRC via TXX-3641 & TXX-4290. Information on the related relief requests are also included in the Preservice Inspection Plan. In addition, as stated in each response, information related to the limitations of the inspection performed is included in the appropriate weld inspection report form. The information in these responses provided a point-in-time response to facilitate the staff's review, and is beyond the level of detail appropriate for the FSAR. Thus, this information need not be incorporated into the updated FSAR text.

Change Request Number : SA-92-310.2
Commitment Register Number : ME-0141-002
Related SER : 5.2.4 SSER : 6.6
SER/SSER Impact : No

Q&R 121-27

- 4 Adds a note to the response to Q121.14, stating that information will not be incorporated into the updated FSAR text.

Q&R Incorporation :

This is an editorial change to this response in preparation for deletion of the Q&R Section when the updated FSAR is prepared. Information in the response to Q121.14, re: ultrasonic exams (as part of the PSI Program) for the end surfaces of reactor vessel head studs and nuts, is detailed, historical information which provided a point-in-time response designed to facilitate the staff's review; it is beyond the level of detail currently appropriate for the FSAR. Thus, this information need not be incorporated into the updated FSAR text.

Change Request Number : SA-92-308.3
Commitment Register Number :
Related SER : 5.2.4 SSER :
SER/SSER Impact : No

Q&R 121-37

- 4 Adds a note to the response to Q121.22 stating that information in the response will not be incorporated into the updated FSAR text.

Q&R Incorporation :

This is an editorial change to this response in preparation for deletion of the Q&R Section when the updated FSAR is prepared. The response to Q121.22

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references TXX-4218 dated July 6, 1984. TXX-4218 transmitted a report to the NRC entitled, "Demonstration of Ultrasonic Examination Techniques Applied to Welds in Main Coolant Loop Piping." The demonstration documented in this report confirmed prior observations made in an NRC inspection report (for Unit 1), (2) showed (for Unit 2) the ability to penetrate welds and adjacent base material on both sides of the welds, and (3) indicated that the 40 degree refracted longitudinal wave technique is capable of detecting mechanically induced fatigue cracks in centrifugally cast pipe welds. The response was a point-in-time response referencing docketed material designed to facilitate the staff's review of apparent differences between the conclusion reached at a Callaway meeting on January 25, 1984 and the findings of a related Region IV Comanche Peak report. No changes to CPSES design as a result of this demonstration are documented in this report. In fact, the report for the most part confirms prior conclusions and, according to SSER 12 Section 5.2.4, only impacts certain aspects of ISI program implementation. Based on the above, the content of this Q&R response is beyond the level of detail appropriate for the FSAR. Thus, this information need not be incorporated into the updated FSAR text.

Change Request Number : SA-92-320.1
Commitment Register Number :
Related SER : 5.2 SSER :12 5.2.4
SER/SSER Impact : No

Q&R 123-3

4

See Sheet No(s) :4 & 5
Replaces portions of the response to Q123.3, including Tables 123.3-1 thru 123.3-20 & Figures 123.2-1 thru 123.3-6, concerning fracture toughness data for ferritic materials used in reactor coolant pressure boundary applications and, in particular, fracture toughness properties of reactor vessel fasteners, with references to FSAR Section 5.3.1.5 and Tables 5.2-1, 5.3-3A, -3B, -4A & -4B as well as new Tables 5.3-8A thru 5.3-17A, 5.3-8B thru 5.3-17B; and new Figures 5.3-2A thru 5.3-4A & 5.3-2B thru 5.3-4B. Adds a note to the response stating that the remaining information will not be incorporated into the updated FSAR text. Also adds appropriate Q&R margin notations to identify location of incorporation.

Q&R Incorporation :

This is an editorial change to this response in preparation for deletion of the Q&R Section when the updated FSAR is prepared. Portions of the response to Q123.3, including Tables 123.3-1 thru 123.3-20 &

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Figures 123.2-1 thru 123.3-6, are moved to FSAR Section 5.3.1.5, and new Tables 5.3-8A thru 5.3-17A, 5.3-8B thru 5.3-17B; and new Figures 5.3-2A thru 5.3-4A & 5.3-2B thru 5.3-4B to allow parts of this response to be replaced with references to these Sections and Figures. Information in this response, concerning fracture toughness data for ferritic materials used in reactor coolant pressure boundary applications and, in particular, fracture toughness properties of reactor vessel fasteners, is now adequately addressed within FSAR text. The remainder of this response is comprised of a note stating that the scope of the question had been modified based on a telecon between the NRC, Westinghouse and TU. This information provided a point-in-time response clarifying the context of the response in order to facilitate the staff's review, and is beyond the level of detail appropriate for the FSAR. Thus, the remaining information need not be incorporated into the updated FSAR text.

Change Request Number : SA-92-324.1
Commitment Register Number :
Related SER : 5.3.1 SSER :01 5.3.1
SER/SSER Impact : No

Q&R Table 123.3-1 4 Replaces Q&R Table 123.3-1, Unit 1 Beltline Region Weld Metal Charpy V-Notch Impact Data, with a reference to new FSAR Table 5.3-8A.

Q&R Incorporation :
Q&R relocation is being performed to prepare the FSAR for the USAR.

Change Request Number : SA-92-324.2
Commitment Register Number :
Related SER : 5.3.1 SSER :01 5.3.1
SER/SSER Impact : No

Q&R Table 123.3-2 4 Replaces Q&R Table 123.3-2, Unit 1 Charpy V-Notch Impact Data for Reactor Vessel Intermediate Shell Plate Code R-1107-1, with a reference to new FSAR Table 5.3-9A.

Q&R Incorporation :
Q&R relocation is being performed to prepare the FSAR for the USAR.

Change Request Number : SA-92-324.3
Commitment Register Number :
Related SER : 5.3.1 SSER :01 5.3.1
SER/SSER Impact : No

Q&R Table 123.3-3 4 Replaces Q&R Table 123.3-3, Unit 1 Charpy V-Notch Impact Data for Reactor Vessel Intermediate Shell Plate Code R-1107-2, with a reference to new FSAR Table 5.3-10A.

Q&R Incorporation :

FSAR Page
(as amended)

Group Description

Q&R relocation is being performed to prepare the FSAR for the USAR.

Change Request Number : SA-92-324.4
Commitment Register Number :
Related SER : 5.3.1 SSER :01 5.3.1
SER/SSER Impact : No

Q&R Table 123.3-4

4

Replaces Q&R Table 123.3-4, Unit 1 Charpy V-Notch Impact Data for Reactor Vessel Intermediate Shell Plate Code R-1107-3, with a reference to new FSAR Table 5.3-11A.

Q&R Incorporation :

Q&R relocation is being performed to prepare the FSAR for the USAR.

Change Request Number : SA-92-324.5
Commitment Register Number :
Related SER : 5.3.1 SSER :01 5.3.1
SER/SSER Impact : No

Q&R Table 123.3-5

4

Replaces Q&R Table 123.3-5, Unit 1 Charpy V-Notch Impact Data for Reactor Vessel Lower Shell Plate Code R-1108-1, with a reference to new FSAR Table 5.3-12A.

Q&R Incorporation :

Q&R relocation is being performed to prepare the FSAR for the USAR.

Change Request Number : SA-92-324.6
Commitment Register Number :
Related SER : 5.3.1 SSER :01 5.3.1
SER/SSER Impact : No

Q&R Table 123.3-6

4

Replaces Q&R Table 123.3-6, Unit 1 Charpy V-Notch Impact Data for Reactor Vessel Lower Shell Plate Code R-1108-2, with a reference to new FSAR Table 5.3-13A.

Q&R Incorporation :

Q&R relocation is being performed to prepare the FSAR for the USAR.

Change Request Number : SA-92-324.7
Commitment Register Number :
Related SER : 5.3.1 SSER :01 5.3.1
SER/SSER Impact : No

Q&R Table 123.3-7

4

Replaces Q&R Table 123.3-7, Unit 1 Charpy V-Notch Impact Data for Reactor Vessel Lower Shell Plate Code R-1108-3, with a reference to new FSAR Table 5.3-14A.

Q&R Incorporation :

Q&R relocation is being performed to prepare the FSAR for the USAR.

Change Request Number : SA-92-324.8
Commitment Register Number :
Related SER : 5.3.1 SSER :01 5.3.1

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		SER/SSER Impact : No
Q&R Table 123.3-8	4	<p>Replaces Q&R Table 123.3-8, Unit 1 Reactor Vessel Non-Beltline Weld Metal Toughness Properties, with a reference to new FSAR Table 5.3-15A.</p> <p>Q&R Incorporation : Q&R relocation is being performed to prepare the FSAR for the USAR.</p> <p>Change Request Number : SA-92-324.9 Commitment Register Number : Related SER : 5.3.1 SSER :01 5.3.1 SER/SSER Impact : No</p>
Q&R Table 123.3-9	4	<p>Replaces Q&R Table 123.3-9, Unit 2 Reactor Vessel Non-Beltline Weld Metal Toughness Properties, with a reference to new FSAR Table 5.3-15B.</p> <p>Q&R Incorporation : Q&R relocation is being performed to prepare the FSAR for the USAR.</p> <p>Change Request Number : SA-92-324.10 Commitment Register Number : Related SER : 5.3.1 SSER :01 5.3.1 SER/SSER Impact : No</p>
Q&R Table 123.3-10	4	<p>Replaces Q&R Table 123.3-10, Unit 2 Charpy V-Notch Impact Data for Reactor Vessel Intermediate Shell Plate Code R-3807-1, with a reference to new FSAR Table 5.3-9B.</p> <p>Q&R Incorporation : Q&R relocation is being performed to prepare the FSAR for the USAR.</p> <p>Change Request Number : SA-92-324.11 Commitment Register Number : Related SER : 5.3.1 SSER :01 5.3.1 SER/SSER Impact : No</p>
Q&R Table 123.3-11	4	<p>Replaces Q&R Table 123.3-11, Unit 2 Charpy V-Notch Impact Data for Reactor Vessel Intermediate Shell Plate Code R-3807-2, with a reference to new FSAR Table 5.3-10B.</p> <p>Q&R Incorporation : Q&R relocation is being performed to prepare the FSAR for the USAR.</p> <p>Change Request Number : SA-92-324.12 Commitment Register Number : Related SER : 5.3.1 SSER :01 5.3.1 SER/SSER Impact : No</p>
Q&R Table 123.3-12	4	<p>Replaces Q&R Table 123.3-12, Unit 2 Charpy V-Notch Impact Data for Reactor Vessel Intermediate Shell Plate Code R-3807-3, with a reference to new FSAR Table 5.3-11B.</p> <p>Q&R Incorporation :</p>

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Q&R relocation is being performed to prepare the
FSAR for the USAR.

Change Request Number : SA-92-324.13
Commitment Register Number :
Related SER : 5.3.1 SSER :01 5.3.1
SER/SSER Impact : No

Q&R Table 123.3-13 4 Replaces Q&R Table 123.3-13, Unit 2 Charpy V-Notch
Impact Data for Reactor Vessel Lower Shell Plate
Code R-3816-1, with a reference to new FSAR Table
5.3-12B.

Q&R Incorporation :

Q&R relocation is being performed to prepare the
FSAR for the USAR.

Change Request Number : SA-92-324.14
Commitment Register Number :
Related SER : 5.3.1 SSER :01 5.3.1
SER/SSER Impact : No

Q&R Table 123.3-14 4 Replaces Q&R Table 123.3-14, Unit 2 Charpy V-Notch
Impact Data for Reactor Vessel Lower Shell Plate
Code R-3816-2, with a reference to new FSAR Table
5.3-13B.

Q&R Incorporation :

Q&R relocation is being performed to prepare the
FSAR for the USAR.

Change Request Number : SA-92-324.15
Commitment Register Number :
Related SER : 5.3.1 SSER :01 5.3.1
SER/SSER Impact : No

Q&R Table 123.3-15 4 Replaces Q&R Table 123.3-15, Unit 2 Charpy V-Notch
Impact Data for Reactor Vessel Lower Shell Plate
Code R-3816-3, with a reference to new FSAR Table
5.3-14B.

Q&R Incorporation :

Q&R relocation is being performed to prepare the
FSAR for the USAR.

Change Request Number : SA-92-324.16
Commitment Register Number :
Related SER : 5.3.1 SSER :01 5.3.1
SER/SSER Impact : No

Q&R Table 123.3-16 4 Replaces Q&R Table 123.3-16, Unit 2 Beltline Region
Weld Metal Charpy V-Notch Impact Data, with a
reference to new FSAR Table 5.3-8B.

Q&R Incorporation :

Q&R relocation is being performed to prepare the
FSAR for the USAR.

Change Request Number : SA-92-324.17
Commitment Register Number :
Related SER : 5.3.1 SSER :01 5.3.1
SER/SSER Impact : No

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Q&R Table 123.3-17	4	<p>Replaces Q&R Table 123.3-17, Unit 1 Steam Generator Fracture Toughness Data, with a reference to new FSAR Table 5.3-16A.</p> <p>Q&R Incorporation :</p> <p>Q&R relocation is being performed to prepare the FSAR for the USAR.</p> <p>Change Request Number : SA-92-324.18</p> <p>Commitment Register Number :</p> <p>Related SER : 5.3.1 SSER :01 5.3.1</p> <p>SER/SSER Impact : No</p>
Q&R Table 123.3-18	4	<p>Replaces Q&R Table 123.3-18, Unit 1 Steam Generator and Pressurizer Weld Metal Fracture Toughness Data, with a reference to new FSAR Table 5.3-17A.</p> <p>Q&R Incorporation :</p> <p>Q&R relocation is being performed to prepare the FSAR for the USAR.</p> <p>Change Request Number : SA-92-324.19</p> <p>Commitment Register Number :</p> <p>Related SER : 5.3.1 SSER :01 5.3.1</p> <p>SER/SSER Impact : No</p>
Q&R Table 123.3-19	4	<p>Replaces Q&R Table 123.3-19, Unit 2 Steam Generator and Pressurizer Base Metal Fracture Toughness Data, with a reference to new FSAR Table 5.3-16B.</p> <p>Q&R Incorporation :</p> <p>Q&R relocation is being performed to prepare the FSAR for the USAR.</p> <p>Change Request Number : SA-92-324.20</p> <p>Commitment Register Number :</p> <p>Related SER : 5.3.1 SSER :01 5.3.1</p> <p>SER/SSER Impact : No</p>
Q&R Table 123.3-20	4	<p>Replaces Q&R Table 123.3-20 (Sheets 1 & 2), Unit 2 Steam Generator and Pressurizer Weld Metal Fracture Toughness Data, with a reference to new FSAR Table 5.3-17B</p> <p>Q&R Incorporation :</p> <p>Q&R relocation is being performed to prepare the FSAR for the USAR.</p> <p>Change Request Number : SA-92-324.21</p> <p>Commitment Register Number :</p> <p>Related SER : 5.3.1 SSER :01 5.3.1</p> <p>SER/SSER Impact : No</p>
Q&R Figure 123.3-1	4	<p>Replaces Q&R Figure 123.3-1, Unit 1 Beltline Region Weld Metal Charpy V-Notch Impact Data, with a reference to new FSAR Figure 5.3-2A.</p> <p>Q&R Incorporation :</p> <p>Q&R relocation is being performed to prepare the FSAR for the USAR.</p> <p>Change Request Number : SA-92-324.22</p>

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		Commitment Register Number : Related SER : 5.3.1 SSER :01 5.3.1 SER/SSER Impact : No
Q&R Figure 123.3-2	4	Replaces Q&R Figure 123.3-2, Unit 1 Charpy V-Notch Impact Data for Intermediate Shell Plates, with a reference to new FSAR Figure 5.3-3A. Q&R Incorporation : Q&R relocation is being performed to prepare the FSAR for the USAR. Change Request Number : SA-92-324.23 Commitment Register Number : Related SER : 5.3.1 SSER :01 5.3.1 SER/SSER Impact : No
Q&R Figure 123.3-3	4	Replaces Q&R Figure 123.3-3, Unit 1 Charpy V-Notch Impact Data for Lower Shell Plates, with a reference to new FSAR Figure 5.3-4A. Q&R Incorporation : Q&R relocation is being performed to prepare the FSAR for the USAR. Change Request Number : SA-92-324.24 Commitment Register Number : Related SER : 5.3.1 SSER :01 5.3.1 SER/SSER Impact : No
Q&R Figure 123.3-4	4	Replaces Q&R Figure 123.3-4, Unit 2 Beltline Region Weld Metal Charpy V-Notch Impact Data, with a reference to new FSAR Figure 5.3-2B. Q&R Incorporation : Q&R relocation is being performed to prepare the FSAR for the USAR. Change Request Number : SA-92-324.25 Commitment Register Number : Related SER : 5.3.1 SSER :01 5.3.1 SER/SSER Impact : No
Q&R Figure 123.3-5	4	Replaces Q&R Figure 123.3-5, Unit 2 Charpy V-Notch Impact Data for Intermediate Shell Plates, with a reference to new FSAR Figure 5.3-3B. Q&R Incorporation : Q&R relocation is being performed to prepare the FSAR for the USAR. Change Request Number : SA-92-324.26 Commitment Register Number : Related SER : 5.3.1 SSER :01 5.3.1 SER/SSER Impact : No
Q&R Figure 123.3-6	4	Replaces Q&R Figure 123.3-6, Unit 2 Charpy V-Notch Impact Data for Lower Shell Plates, with a reference to new FSAR Figure 5.3-4B. Q&R Incorporation : Q&R relocation is being performed to prepare the

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FSAR for the USAR.
Change Request Number : SA-92-324.27
Commitment Register Number :
Related SER : 5.3.1 SSER : 01 5.3.1
SER/SSER Impact : No

Q&R 130-38

4

Adds a note to the response for Q130.29 to see FSAR Section 3.8.1.6 for information on the chloride content and on testing and examination of concrete ingredients. Also adds appropriate Q&R margin notations to identify location of Q&R incorporation.
Q&R Incorporation :

This is an editorial change to this response in preparation for deletion of the Q&R Section when the updated FSAR is prepared. Q130.29 response (1) through (4), concerning chloride content and testing and examination of concrete ingredients, is already adequately addressed by reference in FSAR Section 3.8.1.6. The specific information in (1) through (4) of 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: such information is more appropriately located within procedures related to construction.

Change Request Number : SA-92-347.1
Commitment Register Number :
Related SER : 3.8.1 SSER :
SER/SSER Impact : No

Q&R 130-39

4

Adds a note to the response to Q130.30 stating that the information in the response will not be incorporated into the updated FSAR text, and a note referencing FSAR Section 3.8.1.6.1.6c for information on examination, testing and other quality control procedures for concrete. Also adds an appropriate Q&R margin notation to identify location of general discussion of Q&R material incorporated by reference.

Q&R Incorporation :

This is an editorial change to this response in preparation for deletion of the Q&R Section when the updated FSAR is prepared. The response to Q130.30 provided information on the location of inspection of pumped concrete, and noted that CPSES had not committed to ANSI N45.2.5-1974. 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, information in this response need not be incorporated into the updated FSAR text.

Change Request Number : SA-92-348.1
Commitment Register Number :

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Related SER : 3.8.1 SSER :
SER/SSER Impact : No

Q&R 130-40

4

See Sheet No(s) :41 & 42
Replaces a portion of the response to Q130.31, concerning orientation error of the Unit 2 reactor pressure vessel support structure including reorientation efforts & development of shear resistance through the use of rebar reinforcement and grout effectiveness, with references to FSAR Sections 3.8.5.1.1 & 3.8.5.4.1. The remaining information will not be incorporated into the updated FSAR text.

Q&R Incorporation :

This is an editorial change to this response in preparation for deletion of the Q&R Section when the updated FSAR is prepared. A portion of the response to Q130.31 is moved to FSAR Sections 3.8.5.1.1 & 3.8.5.4.1 to allow part of this response to be replaced with references to these Sections. Information in this response, concerning orientation error of the Unit 2 reactor pressure vessel support structure including reorientation efforts & development of shear resistance through the use of rebar reinforcement and grout effectiveness, is now adequately addressed within FSAR text. Part of the remaining information in the response provided detailed information re: shear friction design procedure & tests performed to support the effectiveness of the grout; this information is located in the references added to FSAR Section 3.8 & is thereby incorporated into the FSAR by reference. The remaining information provided additional detail on the orientation error & reorientation efforts, and is beyond the level of detail which is appropriate for the FSAR. Thus, the remaining, detailed information need not be incorporated into the updated FSAR text.

Change Request Number : SA-92-349.1

Commitment Register Number :

Related SER : 3.8.4 SSER :22 3.8.4

SER/SSER Impact : No

Q&R 130-46

4

See Sheet No(s) :47 & 48
Replaces a portion of the response to Q130.35, concerning the inadvertent omission of some of the shear reinforcement for the Unit 2 containment wall and the structural integrity of the Unit 2 containment building, with a reference to FSAR Section 3.8.1.4.1.2. Adds a note stating that the remaining information will not be incorporated into the updated FSAR text. Also adds appropriate Q&R margin notations to identify location of

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incorporation.

Q&R Incorporation :

This is an editorial change to this response in preparation for deletion of the Q&R Section when the updated FSAR is prepared. A portion of the response to Q130.35 is moved to FSAR Section 3.8.1.4.1.2 to allow part of the response to be replaced with a reference to this Section. Information in this response, concerning the inadvertent omission of some of the shear reinforcement for the Unit 2 containment wall and the structural integrity of the Unit 2 containment building, is now adequately addressed within FSAR text. The remainder of the response contains information on the three mathematical models used to consider possible response patterns of the concrete containment; though the models used in this context are addressed in Section 3.8.1.4.1.2, discussion of these models was significantly revised in Amendment 68 to the FSAR. Thus, the remainder of the response contains superceded information which need not be incorporated into the updated FSAR text.

Change Request Number : SA-92-352.1
Commitment Register Number :
Related SER : 3.8.1 SSER :22 3.8.1
SER/SSER Impact : No

Q&R 130-49

4

See Sheet No(s) :50

Replaces a portion of the response to Q130.36, concerning concrete masonry walls within seismic Category I structures & removable precast block walls, with references to FSAR Section 3.8.4 & Table 17A-1. Adds a note stating that the remaining information will not be incorporated into the updated FSAR.

Q&R Incorporation :

This is an editorial change to this response in preparation for deletion of the Q&R Section when the updated FSAR is prepared. Portions of the response to Q130.36 are moved to FSAR Section 3.8.4 & Table 17A-1 to allow part of this response to be replaced with references to this Section & Table. Information in this response, concerning concrete masonry walls within seismic Category I structures & removable precast block walls, is now adequately addressed within FSAR text. The remainder of the response was a detailed, point-in-time response to facilitate the staff's review, which noted the removal or replacement of eight masonry walls in the Electrical and Control Building. This information is generally addressed in Note 52 to Table 17A-1, but verbatim transfer of all of the material in the response is beyond the level of detail which is

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appropriate for the FSAR. Thus, the remaining information need not be incorporated into the updated FSAR text.

Change Request Number : SA-92-353.1
Commitment Register Number : Y6-7619/Y7-7149
Related SER : 3.8.3 SSER :24 APP-C.7
SER/SSER Impact : No

Q&R 130-51

4

See Sheet No(s) :52, 53, 54 & 55
Replaces portions of the response to Q130.37, concerning factor of safety on expansion anchors used for cable tray supports with a safety factor of less than four, with a reference to FSAR Section 3.10B.3. The remaining information is deleted from the response.

Q&R Incorporation :

This is an editorial change to this response in preparation for deletion of the Q&R Section when the updated FSAR is prepared. Portions of the response to Q130.37 are moved to FSAR Section 3.10B.3 to allow part of this response to be replaced with a reference to this Section. Information in this response, concerning factor of safety on expansion anchors used for cable tray supports with a safety factor of less than four is now adequately addressed within FSAR text. The remainder of this response provided supporting detail to the information incorporated from this Q&R into Section 3.10B.3. This information was designed to facilitate the staff's review, and is beyond the level of detail which is appropriate for the FSAR. Thus, the remaining information in this response need not be incorporated into the updated FSAR text.

Change Request Number : SA-92-354.1
Commitment Register Number :
Related SER : 3.10 SSER :24 3.10
SER/SSER Impact : No

Q&R 130-56

4

See Sheet No(s) :57 & 58
Replaces portions of the response Q130.38, concerning cable tray support design, and the yield strength of the materials used in the supports under SSE loading combinations, with a reference to FSAR Section 3.10B.3. The remaining information is deleted from the response.

Q&R Incorporation :

This is an editorial change to this response in preparation for deletion of the Q&R Section when the updated FSAR is prepared. Portions of this response Q130.38 are moved to FSAR Section 3.10B.3 to allow parts of this response to be replaced with a reference to this Section. Information in these responses, concerning cable tray support design, and

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the yield strength of the materials used in the supports under SSE loading combinations, are now adequately addressed within FSAR text. The remainder of this response provided extensive supporting detail to the information incorporated from this Q&R into Section 3.10B.3. This information was designed to facilitate the staff's review, and is beyond the level of detail which is appropriate for the FSAR. Thus, the remaining information in this response need not be incorporated into the updated FSAR text.

Change Request Number : SA-92-354.2
Commitment Register Number :
Related SER : 3.10 SSER :24 3.10
SER/SSER Impact : No

Q&R 130-59	4	<p>Replaces response to Q130.39, concerning cable tray/support design and associated damping values, with a reference to FSAR Section 3.10B.3.</p> <p>Q&R Incorporation : Q&R relocation is being performed to prepare the FSAR for the USAR.</p> <p>Change Request Number : SA-92-356.1 Commitment Register Number : Related SER : 3.10 SSER :24 3.10 SER/SSER Impact : No</p>
Q&R Figure 130.31-1	4	<p>Replaces Figure Q130.31-1 with a reference to see Figure 3.8-24.</p> <p>Q&R Incorporation : Q&R relocation is being performed to prepare the FSAR for the USAR.</p> <p>Change Request Number : SA-92-349.2 Commitment Register Number : Related SER : 3.8.4 SSER :22 3.8.4 SER/SSER Impact : No</p>
Q&R Figure 130.31-2	4	<p>Replaces Figure Q130.31-2 with a reference to see Figure 3.8-25.</p> <p>Q&R Incorporation : Q&R relocation is being performed to prepare the FSAR for the USAR.</p> <p>Change Request Number : SA-92-349.3 Commitment Register Number : Related SER : 3.8.4 SSER :22 3.8.4 SER/SSER Impact : No</p>
Q&R 140-3	4	<p>Replaces a portion of the response to Q140.1 including Tables Q140.1-1 & -2, concerning impact of MSLE on qualified equipment outside containment, with references to FSAR Section 3.6B.2.5.2.1 & new Tables 3.6B-4 & -5. Adds a note stating that the remaining information will not be incorporated into</p>

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the updated FSAR text.

Q&R Incorporation :

This is an editorial change to this response in preparation for deletion of the Q&R Section when the updated FSAR is prepared. A portion of the response to Q140.1 is moved to FSAR Section 3.6B.2.5.2.1 & new Tables 3.6B-4 & -5 to allow part of the response to be replaced with references to this Section & the new Tables. The remainder of the response provided detailed information, references to the SER and SSERs, and a point-in-time response re: revision of CPSES analysis concerning time following onset at which safety function would occur. This information facilitated the staff's review, but is beyond the level of detail which is appropriate for the FSAR. Thus, the remaining information in this response need not be incorporated into the updated FSAR text.

Change Request Number : SA-92-358.1
Commitment Register Number : Y7-3333/NL-2785
Related SER : 3.6.2 SSER :22 3.11.6
SER/SSER Impact : No

Q&R Table 140.1-1 4 Replaces Q&R Table 140.1-1 with a reference to FSAR Table 3.6B-5.

Q&R Incorporation :

Q&R relocation is being performed to prepare the FSAR for the USAR.

Change Request Number : SA-92-358.2
Commitment Register Number : NL-2781
Related SER : 3.6.2 SSER :22 3.11.6
SER/SSER Impact : No

Q&R Table 140.1-2 4 Replaces Q&R Table 140.1-2 with a reference to FSAR Table 3.6B-4.

Q&R Incorporation :

Q&R relocation is being performed to prepare the FSAR for the USAR.

Change Request Number : SA-92-358.3
Commitment Register Number : NL-2783
Related SER : 3.6.2 SSER :22 3.11.6
SER/SSER Impact : No

Q&R 150-7 4 Replaces the portion of the response to Question Q150.4 concerning earthquake cycles and qualification testing with the note, "For information regarding earthquake cycles and seismic qualification testing, see Sections 3.7N.3.2, 3.7B.3.2, 3.9N.2.2, 3.9B.2.2 and 3.10B.2." For the remaining information in the response, a note is added stating that the information will not be incorporated into the updated FSAR (USAR) text.

Q&R Incorporation :

This is an editorial change to this response in

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preparation for deletion of the Q&R Section when the updated FSAR (USAR) is prepared.

The portion of the response concerning earthquake cycles and qualification testing is adequately addressed by the referenced Sections. Thus, that portion of the response may be replaced with a note to refer to those Sections.

The remaining information provided in the answer to this question was a point-in-time response in order to facilitate the staff's review and site visit of the Seismic Qualification Review Team (SQRT) which was planned to occur at that time. That portion of the response was general in nature because the information requested by the question, in large part, involved specific seismic equipment qualification details that are maintained on site in the Seismic Qualification Summary Packages and are referenced in the Master Equipment List. It is beyond the level of detail which is practical for inclusion in the FSAR. SSER 24, Section 3.10 states that the detailed SQRT audit of equipment installations and seismic qualification assumptions, calculations, tests, analysis methods and procedures concluded that the implementation of applicable criteria and the CPSES Seismic Qualification program for Category I equipment is acceptable. Thus, this portion of the information in this response will not need to be incorporated into the updated FSAR (USAR) text.

Change Request Number : SA-92-362.1
Commitment Register Number :
Related SER : 3.10 SSER :24 3.10
SER/SSER Impact : No

Q&R 212-3

4

See Sheet No(s) :4
Replaces the response to Q212.3, concerning the potential for, and detection of, leakage from the RCS to the RHRS, ECCS and CVCS, with a reference to FSAR Section 5.2.5.2.3.

Q&R Incorporation :

Q&R relocation is being performed to prepare the FSAR for the USAR.

Change Request Number : SA-92-366.1
Commitment Register Number : RE-0265
Related SER : 5.2.5 SSER :25 5.2.5
SER/SSER Impact : No

Q&R 212-9

4

See Sheet No(s) :10, 11 & 12
Replaces a portion of the response to Q212.6, concerning requirements of the leak detection system and related analyses, with a reference to FSAR

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Section 6.3.2.5.2 and Figures 6.3-8 & -9. Adds a note stating that the remaining information will not be incorporated into the updated FSAR text. Also adds appropriate Q&R margin notations to identify location of incorporation.

Q&R Incorporation :

This is an editorial change to this response in preparation for deletion of the Q&R Section when the updated FSAR is prepared. Responses to Q212.6 (2), (3), (4), and parts of (1) and (5) as well as Figures 212.6-1 & -2 are moved to FSAR Section 6.3.2.5.2 and the end of Section 6.3 (figures are renumbered 6.3-8 & -9, respectively) to allow the bulk of this response to be replaced with references to FSAR Section 6.3.2.5.2 and Figures 6.3-8 & 6.3-9. Information in this response, re: requirements of the leak detection system and related analyses, is now adequately addressed within FSAR text. The remainder of the response contains detailed information related to the calculation of the leakage rates, and a point-in-time response noting for the benefit of the NRC staff's review that the system is not believed to be within the scope of IEEE-279. Such information is beyond the level of detail which is appropriate for the FSAR. Thus, the remaining information in the response will not need to be incorporated into the updated FSAR text.

Change Request Number : SA-92-367.1

Commitment Register Number :

Related SER : 6.3.2 SSER :

SER/SSER Impact : No

Q&R 212-25

4

See Sheet No(s) :26 & 27

Replaces response to Q212.16(4), concerning testing of the overpressure protection system, with a reference to FSAR Section 5.2.2.10. Adds a note to the response to Q212.16(6) stating that the information in this portion of the response will not be incorporated into the updated FSAR text. Also adds appropriate Q&R margin notations to identify location of Q&R incorporation.

Q&R Incorporation :

This is an editorial change to this response in preparation for deletion of the Q&R Section when the updated FSAR is prepared. Responses to Q212.16(1), (2), (3), (5), (7) & (8) are already adequately addressed in FSAR text. Response to Q212.16(4) is incorporated into FSAR Section 5.2.2.10 to allow this part of the response to be replaced with a reference to this Section. A reference to electronic testing in accordance with technical specification requirements instead of 'before each refueling shutdown' has been added to 5.2.2.10 for

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clarification. Information in (4), which relates to testing of the overpressure protection system, is now adequately addressed in FSAR text. Information in the response to Q212.16(6) was a point-in-time response to facilitate the staff's review, and has since been modified by information currently contained in FSAR Section 5.2.2.11.3. The commitment associated with the response has an incorporated status, with the following comment: "As stated in FSAR Section 5.2.2.11.3, the power operated relief valves (PORVs) and the plant nitrogen supply system are qualified for loads imposed by seismic events. The seismic requirements for the PORVs, which were supplied by Westinghouse, are delineated in Equipment Specification G-67844, Rev. 2 (General) and 952645, Rev. 6 (Comanche Peak specific)...." Based on the information reviewed, the information in response (6) will not need to be incorporated into the updated FSAR text.

Change Request Number : SA-92-375.1

Commitment Register Number :

Related SER : 5.2.2 SSER :25 5.2.2

SER/SSER Impact : No

Q&R 212-44

4

See Sheet No(s) :45 & 46

Replaces portions of the response to Q212.28, concerning manual sampling of the containment atmosphere & measurement sensitivities and concentration levels, with references to FSAR Section 11.5.2.6.2 and Table 11.5-4, respectively. Adds a note to the response stating that the remaining information will not be incorporated into the updated FSAR text.

Q&R Incorporation :

This is an editorial change to this response in preparation for deletion of the Q&R Section when the updated FSAR is prepared. Information on the sensitivity of the analysis is adequately described in FSAR Table 11.5-4. Portions of the response to Q212.28 are moved to FSAR Section 11.5.2.6.2 to allow these parts of the response to be replaced with a reference to this Section. Information in this response, concerning manual sampling of the containment atmosphere & measurement sensitivities and concentration levels, is now adequately addressed within FSAR text and tables. Information in the response referring to measurable concentrations of sampled nuclides (either gross beta or each gamma emitter and >8 day half-life) has been revised per Table 11.5-4. The remaining information is a combination of a point-in-time response to facilitate the staff's review and material which is more appropriately and

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adequately addressed by the Offsite Dose Calculation Manual and supporting plant procedures. In either case, the remaining information is beyond the level of detail which is appropriate for the FSAR. Thus, the remaining information in this response need not be incorporated into the updated FSAR text.

Change Request Number : SA-92-382.1
Commitment Register Number :
Related SER : 11.3 SSER :
SER/SSER Impact : No

Q&R 212-48

4

See Sheet No(s) : 49 & 50
Replaces response to Q212.30, concerning leakage detection capability for RHR System leakage, with a reference to new FSAR Section 5.4.7.2.8.

Q&R Incorporation :

Q&R relocation is being performed to prepare the FSAR for the USAR.

Change Request Number : SA-92-384.1
Commitment Register Number : X1-0942
Related SER : 5.4.3 SSER : 22 5.4.3
SER/SSER Impact : No

Q&R 212-61

4

See Sheet No(s) : 62
Replaces the response to Q212.33, concerning RHR pump descriptive information, consequences of loss of component cooling water flow to the RHR and RCS pumps, and the automatic loading of CCW pumps onto the emergency diesel generators during blackout conditions, with references to 5.4.7.2.2, 9.2.2, and 9.2.2.5.3, respectively. Also adds appropriate Q&R margin notations to identify location of incorporation.

Q&R Incorporation :

Q&R relocation is being performed to prepare the FSAR for the USAR.

Change Request Number : SA-92-386.1
Commitment Register Number : IC-0087
Related SER : 5.4.3 SSER : 9.2.2
SER/SSER Impact : No

Q&R 212-64

4

See Sheet No(s) : 65
Replaces the response to Q212.35, concerning potential for exceeding allowable cooldown rates, with a reference to FSAR Section 5.4.7.2.3.

Q&R Incorporation :

Q&R relocation is being performed to prepare the FSAR for the USAR.

Change Request Number : SA-92-388.1
Commitment Register Number :
Related SER : 5.4.3 SSER : 22 5.4.3
SER/SSER Impact : No

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(as amended)

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Q&R 212-76

4

See Sheet No(s) :77

Replaces a portion of the response to Q212.40, concerning hot and cold leg recirculation modes of the ECCS, dilution of boron concentration, prevention of excessive boron concentration, ECCS reliability with single active & passive failure analyses, and ECCS testing, with references to FSAR Sections 6.3.2.5, 6.3.2.8, 6.3.4 & 15.6.5, and Tables 6.3-5, 6.3-6 & 6.3-7. Adds a note stating that the remaining information will not be incorporated into the updated FSAR text. Also adds appropriate Q&R margin notations to identify location of incorporation.

Q&R Incorporation :

This is an editorial change to this response in preparation for deletion of the Q&R Section when the updated FSAR is prepared. Portions of the Q212.40 response are already adequately addressed within FSAR text. FSAR Sections 6.3.2.8 and 15.6.5.2 contain the time (15 hours), as revised via FSAR Amendment 87, required for hot leg injection following a LOCA. Section 6.3, in general, contains discussions of hot and cold leg recirculation modes of the ECCS. ECCS reliability is adequately discussed in Section 6.3.2.5 with single active & passive failure analyses provided in Tables 6.3- 5 & 6.3-6, respectively. This response also refers to Section 6.3.4 for information on ECCS testing. Information in this response, concerning dilution of boron concentration & prevention of excessive concentration, is moved to FSAR Table 6.3-7 & Section 15.6.5.2, respectively, to allow parts of this response to be replaced with references to this Section & Table. The remainder of the response, as noted above, has either been superseded by information incorporated into FSAR text via Amendment 87 or provided a detailed, point-in-time response to facilitate the staff's review, and is beyond the level of detail appropriate for incorporation into the FSAR. Thus, the remaining information need not be incorporated into the updated FSAR text.

Change Request Number : SA-92-391.1

Commitment Register Number : NL-6015/OP-0222-003

Related SER : 6.3.2 SSER : 6.3.3

SER/SSER Impact : No

Q&R 212-78

4

Replaces part of the response to Q212.41, concerning need for operator action to restart equipment upon the reset of all or part of the ECCS during the injection phase, with a reference to FSAR Section 6.3.2.8. Adds a note to the response stating that the remaining information will not be incorporated

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into the updated FSAR text.

Q&R Incorporation :

This is an editorial change to this response in preparation for deletion of the Q&R Section when the updated FSAR is prepared. Part of the response to Q212.41 is moved to FSAR Section 6.3.2.8 to allow this response to be replaced, in part, with a reference to this Section. Information in this response, concerning need for operator action to restart equipment upon the reset of all or part of the ECCS during the injection phase, is now adequately addressed within FSAR text. The remainder of the response noted that it is Westinghouse's position that the probability of a loss of offsite power following SIS reset coincident with the probability of a LOCA is so low as to not warrant being included in the plant design bases. This statement was a point-in-time response designed to facilitate the staff's review, and is beyond the level of detail appropriate for the FSAR. Thus, it need not be incorporated into the updated FSAR text.

Change Request Number : SA-92-392.1

Commitment Register Number :

Related SER : 6.3.2 SSER : 7.3

SER/SSER Impact : No

Q&R 212-88

4

Replaces a portion of the response to Q212.46, concerning prevention of water hammer in ECCS lines, with references to FSAR Sections 6.3.2.2.5, 6.3.2.5 & 6.3.3.7. Adds a note stating that the remaining information will not be incorporated into the updated FSAR text.

Q&R Incorporation :

This is an editorial change to this response in preparation for deletion of the Q&R Section when the updated FSAR is prepared. Portions of the Q212.46 response are moved to FSAR Sections 6.3.2.2.5, 6.3.2.5 and 6.3.3.7 to allow these parts of this response to be replaced with references to these Sections. Information in the response, concerning prevention of water hammer in ECCS lines, is now adequately addressed within FSAR text. The second sentence in the third paragraph is not incorporated into the FSAR text because the subject of the sentence (boron injection recirculation pump) has been deleted from the CPSES design; see FSAR Section 6.3.2.2.7. Thus, it will not need to be incorporated in the updated FSAR.

Change Request Number : SA-92-397.1

Commitment Register Number : X1-0946

Related SER : 6.3.2 SSER :

SER/SSER Impact : No

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- Q&R 212-97 4 See Sheet No(s) :98
Replaces portions of the response to Q212.52, concerning check valves with leakage detection capability and related testing criteria, with a reference to FSAR Section 6.3.4.2. Adds a note stating that the remaining information will not be incorporated into the updated FSAR text. Also adds appropriate Q&R margin notations to identify location of incorporation.
Q&R Incorporation :
Portions of Q212.52 response are incorporated into FSAR Section 6.3.4.2 to allow parts of the response to be replaced with a reference to this Section. Information in this response, concerning check valves with leakage detection capability and related testing criteria, is now adequately addressed within FSAR text. The remainder of the response was a point-in-time response to facilitate the staff's review, noting the valves which do not qualify as high to low pressure isolation barriers and stating that specific leak detection criteria for high to low pressure boundary isolation barrier check valves are not required in the Technical Specifications. This information is beyond the level of detail appropriate for the FSAR. Thus, this information need not be incorporated into the updated FSAR text.
Change Request Number : SA-92-403.1
Commitment Register Number :
Related SER : 6.3.4 SSER :01 6.3.4
SER/SSER Impact : No
- Q&R 212-101 4 Replaces response to Q212.54, concerning design provisions for prevention of vortex formation in the containment sump post-LOCA, with a reference to FSAR Section 6.2.2.2.1.
Q&R Incorporation :
Q&R relocation is being performed to prepare the FSAR for the USAR.
Change Request Number : SA-92-405.1
Commitment Register Number :
Related SER : 6.2.2 SSER :
SER/SSER Impact : No
- Q&R 212-109 4 See Sheet No(s) :110
Replaces the response to Q212.61, concerning the design and administrative provisions ensuring control and positioning of valves 8806, SI-047 & SI-048, switchover from the injection to recirculation mode, and valve position indication for these valves, with references to FSAR Sections 6.3.1, 6.3.2.2.12, 6.3.5.5 & 7.6.4, and Table 6.3-3. Also adds appropriate Q&R margin notations to identify location of incorporation.

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Q&R Incorporation :

Q&R relocation is being performed to prepare the FSAR for the USAR.

Change Request Number : SA-92-412.1

Commitment Register Number : OP-0314/X1-0952/Y6-2066

Related SER : 6.3.2 SSER : 7.6

SER/SSER Impact : No

Q&R 212-112

4

See Sheet No(s) : 113 thru 119

Replaces portions of the response to Q212.63, concerning system blocking features & related manual actions required of the operator, RHR System design bases, detection & response to RHR System piping leakage, maximum heatup/cooldown rate of the pressurizer, RCS initial temperature & pressure, RHR design temperature, and RHR operation initiation, with references to FSAR Sections 5.2.2.11.4, 5.4.7.1, 5.4.7.2.3, 5.4.10.3.1, 6.3.2.8 & 7.3.2.2.6, Tables 5.4-7 & -8, and Figure 5.4-7. Adds a note stating that the remaining information will not be incorporated into the updated FSAR text. Also adds appropriate Q&R margin notations to identify location of incorporation.

Q&R Incorporation :

This is an editorial change to this response in preparation for deletion of the Q&R Section when the updated FSAR is prepared. Information from the response to Q212.63 is already adequately addressed within FSAR Sections 5.2.2.11.4 (blocking), 5.4.7.1 (RHR System design bases), and Tables 5.4-7 (RCS initial temperature & pressure) & -8 (RHR design temperature), and Figure 5.4-7 (RHR operation initiation). Information in this response on system blocking features is moved to Section 7.3.2.2.6; information on related manual actions required of the operator is moved to Section 6.3.2.8; information on detection and response to RHR System piping leakage is moved to Section 5.4.7.2.3; and, information on maximum heatup/cooldown rate of the pressurizer is moved to Section 5.4.10.3.1. Such movement/revision allows portions of this response to be replaced with references to these Sections. Information in this response, concerning system blocking features & related manual actions required of the operator, RHR System design bases, detection & response to RHR System piping leakage, maximum heatup/cooldown rate of the pressurizer, RCS initial temperature & pressure, RHR design temperature, and RHR operation initiation is now adequately addressed within FSAR text. The remainder of this response provided extensive supporting detail on the probability of a LOCA during heatup/cooldown periods, and the rupture of RCS piping at reduced

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(as amended)

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pressure, to the information presented in this Q&R which also appears in, or is incorporated into, Sections 5.4.7.1, 5.4.7.2.3, 5.4.10.3.1, 6.3.2.8, and Tables 5.4-7 & -8. The detailed information was designed to facilitate the staff's review, and is beyond the level of detail which is appropriate for the FSAR. Thus, the remaining information in this response need not be incorporated into the updated FSAR text.

Change Request Number : SA-92-18.1
Commitment Register Number : NL-0115/NL-2457/X2-0109..
Related SER : 5.4.3 SSER : 6.3.2
SER/SSER Impact : No

Q&R 212-120

4

Adds a note stating that information in the response to Q212.64 will not be incorporated into the updated FSAR.

Q&R Incorporation :

This is an editorial change to this response in preparation for deletion of the Q&R Section when the updated FSAR is prepared. The response to Q212.64 is comprised of a justification that the valve discharge rates and response times have been conservatively modeled in Chapter 15 analyses. The response concludes that the discharge rates calculated in Chapter 15 analyses are less than the design values presented in Sections 5.4 and 10.3. Information in this response provided a point-in-time response designed to facilitate the staff's review, and is beyond the level of detail appropriate to the FSAR. Thus, information in this response need not be incorporated into the updated FSAR text.

Change Request Number : SA-92-19.1
Commitment Register Number :
Related SER : 15 SSER :
SER/SSER Impact : No

Q&R 212-131

4

Adds note indicating that the response to the NRC question will not be incorporated into the updated FSAR text and lists existing FSAR chapters and sections where related information is located.

Q&R Incorporation :

The NRC question asks for the following information related to Chapter 15 events: operator actions required, indications available, delay time assumptions, instructions available, safety classifications of required equipment, impact of single failure, and a discussion of the impact of erroneous operator actions. The response provided some general information about all the events as well as specific information related to steamline break, feedwaterline break, LOCA and steam

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generator tube rupture. Much of the information presented is already contained in FSAR Chapter 15 in the description of the related events (i.e., Section 15.1.5 - steamline break, Section 15.2.8 - feedwater line break, Section 15.6.5 LOCA and Section 15.6.3 - steam generator tube rupture). Additional detailed information is contained in FSAR sections describing the required plant systems such as: Chapter 5 - (Appendix 5A) equipment and procedures related to cold shutdown and long term cooling; Chapters 6 & 9 - design and operation of Engineered Safety Features (ESF) and auxiliary systems; Chapter 7 - alarms, indications and automatic systems; and, Chapter 17 (Table 17A-1) - quality attributes and safety classification of required equipment. However, the primary information requested by the question (i.e., operator actions during accidents) and the level of detail provided in the response, are more appropriately contained in plant procedures rather than in the FSAR. The NRC asked the question at a point in time during the licensing of CPSES prior to the existence of such CPSES procedures and the response facilitated their review. The information related to operator action during accidents is now contained in Emergency Response Guidelines (ERGs), Functional Restoration Guidelines (FRGs), Abnormal Plant Operating Procedures (ABNs), and is also part of the CPSES SAT-based training program as defined in 10CFR50.55.4. These procedures were reviewed by the NRC prior to the licensing of CPSES Unit 1. The level of detail required by the SRP for the specific chapter 15 events events discussed in the response is already provided in the FSAR and is consistent with detail provided for other chapter 15 events. The NRC did not use any of the details (which are not being incorporated) as the basis for the acceptability of the FSAR description in the CPSES Safety Evaluation Report (SER). Therefore the existing FSAR descriptions of operator actions for the Chapter 15 events discussed above are sufficient and the additional detail contained in the response need not be incorporated.

Change Request Number : SA-92-22.
Commitment Register Number :
Related SER : 15 SSER :
SER/SSER Impact : No

Q&R 212-132

4

See Sheet No(s) :133
Deletes response to Q212.69 and replaces it with a reference to where the information is already located or has been relocated in the FSAR text.

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Information related to cooldown for a steam generator tube rupture is contained in FSAR Section 15.6. Classification of pressurizer and steam generator relief valves is found in Table 17A-1. Information related to handwheel operation of steam generator relief valves is relocated to Appendix 5A. Discussions concerning the use of pressurizer relief valves for primary side depressurization, steam generator safety valves for secondary side pressure control, and safety injection for primary pressure control, are contained in Appendix 5A. Discussions of criteria governing the availability of systems to mitigate the consequences of accidents are contained in FSAR Section 15.0.8. Although this section does not specifically discuss when credit is taken for non-safety turbine trip following a reactor trip, it does provide a general discussion of when any control system action must be considered (i.e., when such control system action results in more severe accident results). Thus a specific reference to turbine trip is unnecessary and is not included.

Q&R Incorporation :

This information is being relocated to the FSAR text (or references an existing FSAR Section) as part of the process to convert the FSAR into an "updated FSAR" as required by 10CFR50.71(e).

Change Request Number : SA-92-23.
 Commitment Register Number :
 Related SER : 15.6 SSER :
 SER/SSER Impact : No

Q&R 212-146

4

See Sheet No(s) :147
 Replaces response to Q212.82, concerning the consequences of the loss of Chemical & Volume Control System (CVCS) water flow to the Reactor Coolant Pumps (RCPs) as well as a description and resulting consequences of the RCPs being started at lower primary system pressure, with references to FSAR Sections 5.4.1.3.1 and 9.3.4.1.2.1. Also adds appropriate Q&R margin notations to identify location of incorporation.

Q&R Incorporation :

Q&R relocation is being performed to prepare the FSAR for the USAR.

Change Request Number : SA-92-50.1
 Commitment Register Number :
 Related SER : 5.4.1 SSER : 9.3.4
 SER/SSER Impact : No

Q&R 212-160

4

Replaces response to Q212.95, concerning containment and Safeguards Building sump flows and flow paths, with references to FSAR Sections 5.2.5.3 and 6.3.2.5.2.

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(as amended)

Group Description

Q&R Incorporation :

Q&R relocation is being performed to prepare the
FSAR for the USAR.

Change Request Number : SA-92-367.7

Commitment Register Number :

Related SER : 5.2.5 SSER :25 5.2.5

SER/SSER Impact : No

Q&R 212-166

- 4 Replaces portions of the response to Q212.100, including Figure 212.100-1, concerning the RHR pump mini-flow valve interlock, with references to FSAR Sections 5.4.7.2.1 & 5.4.7.2.4, and new Figure 5.4-20. Adds a note to the response stating that the remaining information will not be incorporated into the updated FSAR text.

Q&R Incorporation :

This is an editorial change to this response in preparation for deletion of the Q&R Section when the updated FSAR is prepared. Portions of the response to Q212.100, including Figure 212.100-1, are moved to FSAR Sections 5.4.7.2.1 & 5.4.7.2.4, and new Figure 5.4-20, to allow parts of this response to be replaced with references to these Sections and Figure. Information in this response, concerning the RHR pump mini-flow valve interlock, is now adequately addressed within FSAR text. The remainder of this response is comprised of an assurance that Westinghouse is using the interlock feature in the bypass line as a standard feature in several nuclear plant models along with a listing of specific plants utilizing this particular feature. This information provided a point-in-time response to facilitate the staff's review, and is beyond the level of detail appropriate for the FSAR. Thus, the remaining information need not be incorporated into the updated FSAR text.

Change Request Number : SA-92-60.1

Commitment Register Number :

Related SER : 5.4.3 SSER :22 5.4.3

SER/SSER Impact : No

Q&R 212-171

- 4 Replaces a portion of the response to Q212.104, concerning potential for exceeding allowable cooldown rates, with a reference to FSAR Section 5.4.7.2.3. Also, replaces a portion of this response, concerning the inclusion of air-operated bypass valves FCV-618 & -619 in the Failure Mode & Effects Analysis (FMEA), with a reference to Table 5.4-17. Adds a note to the response to Q212.104 stating that the remaining information will not be incorporated into the updated FSAR text. Also adds appropriate Q&R margin notations to identify location of incorporation.

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(as amended)

Group Description

Q&R Incorporation :

This is an editorial change to this response in preparation for deletion of the Q&R Section when the updated FSAR is prepared. A portion of the response to Q212.104 is moved to FSAR Section 5.4.7.2.3 to allow the response to Q212.35 and part of the response to Q212.104 to be replaced with a reference to this Section. Information in this response, concerning potential for exceeding allowable cooldown rates, is now adequately addressed within FSAR text. Information in this response, related to the inclusion of air-operated bypass valves FCV-618 & -619 in the FMEA, is already adequately addressed within FSAR text (Table 5.4-17). The remaining information in this response was a point-in-time response which justified the exclusion of certain items from discussion in the FSAR (e.g., air accumulators - no air accumulators are provided for either the air-operated RHR heat exchanger outlet or bypass valves, CCW input valves - non-active valves which are excluded from the FMEA). Their inclusion in the Q&R facilitated the staff's review, but is not appropriate for inclusion in the FSAR. Thus, this information need not be incorporated into the updated FSAR text.

Change Request Number : SA-92-388.2

Commitment Register Number :

Related SER : 5.4.3 SSER : 22 5.4.3

SER/SSER Impact : No

Q&R 212-181

4

Replaces response to Q212.113, concerning delay time between the RWST low level signal and low-low level signal, and operator action & reaction time once a low-low level signal is received, with references to FSAR Sections 6.3.2.8, 6.3.5.4.1 & 7.6.5, and Tables 6.3-7 & 6.3-11. Also adds appropriate Q&R margin notations to identify location of incorporation.

Q&R Incorporation :

Q&R relocation is being performed to prepare the FSAR for the USAR.

Change Request Number : SA-92-193.1

Commitment Register Number : X2-0123/-0124/-0125

Related SER : 6.3.2 SSER : 6.3.3

SER/SSER Impact : No

Q&R 212-188

4

Replaces response to Q212.117, concerning the NSSS Control System Setpoint Study, with a reference to FSAR Section 15.0.2. Also adds appropriate Q&R margin notation to identify location of incorporation.

Q&R Incorporation :

Q&R relocation is being performed to prepare the FSAR for the USAR.

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(as amended)

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Change Request Number : SA-92-194.1
Commitment Register Number :
Related SER : 15.1 SSER :
SER/SSER Impact : No

Q&R 212-195

4

Replaces a portion of the response to Q212.124, concerning assurance that the operator will remain within the specified limits of the pressurizer water level indicators (accounting for adverse environment errors) while performing required manual safety functions, with a reference to FSAR Section 7.2.2.3.4. Adds a note to the response stating that the remaining information will not be incorporated into the updated FSAR.

Q&R Incorporation :

This is an editorial change to this response in preparation for deletion of the Q&R Section when the updated FSAR is prepared. A portion of the response to Q212.124 is moved to FSAR Section 7.2.2.3.4 to allow part of the response to be replaced with a reference to this Section. Information in this response, concerning assurance that the operator will remain within the specified limits of the pressurizer water level indicators (accounting for adverse environment errors) while performing required manual safety functions, is now adequately addressed within FSAR text. The remainder of the response addressed the specific accuracy of the pressurizer water level indicators and referenced FSAR Table 7.5-1; the NRC's question also referenced Section 7.5.1. Neither the Section or the Table currently contains the specific information discussed; this information appears to have been superceded in a subsequent amendment. Thus, it is not appropriate to incorporate this information into the updated FSAR.

Change Request Number : SA-92-129.12
Commitment Register Number :
Related SER : 7.2.2 SSER :
SER/SSER Impact : No

Q&R 212-196

4

See Sheet No(s) :197

Adds a note indicating that the response will not be incorporated into the updated FSAR. Also adds references to where portions of the response are currently located.

Q&R Incorporation :

This is an editorial change to this response in preparation for deletion of the Q&R Section when the updated FSAR is prepared. The response to Q212.125 is comprised primarily of information on pressure-temperature limits and related operator actions. This information, as noted in the response, is

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contained in CPSES Emergency Response Guidelines (ERGs). This specific information was provided as a point-in-time response to facilitate the staff's review, and is beyond the level of detail appropriate for the FSAR. Thus, this information need not be incorporated into the updated FSAR text. For a detailed discussion of the sequence of events following a steam line break, including operator actions, the response references Q&R 212.68 response. For post-accident monitoring instrumentation used in a variety of postulated accidents, including feedline and steamline breaks, the response references Section 7.5. These references are added to the end of this response for completeness.

Change Request Number : SA-92-198.1
Commitment Register Number : NL-1856/X2-0083
Related SER : 15 SSER : 7.5
SER/SSER Impact : No

Q&R 212-201

4

Replaces a portion of the response to Q212.129, concerning action following a secondary line rupture (with offsite power available), with a reference to FSAR Section 15.2.8.2. Adds a note stating that the remaining information will not be incorporated into the updated FSAR text. Also adds appropriate Q&R margin notations to identify location of Q&R incorporation.

Q&R Incorporation :

This is an editorial change to this response in preparation for deletion of the Q&R Section when the updated FSAR is prepared. Information in a portion of the response to Q212.129 is moved to FSAR Section 15.2.8.2 to allow this part of the response to be replaced with a reference to this Section. Information concerning action following a secondary system line rupture (with offsite power available), is now adequately addressed by the revised Section 15.2.8.2. The information in the first sentence of the response notes that the question arose from old emergency operating procedures; this sentence provided a point-in-time response, directing the staff to more current information given in the remainder of the response. Therefore, the information contained in this sentence need not be incorporated into the updated FSAR. The word "current" in the second response sentence is related to the point-in-time response noted above and is not germane to the revised FSAR statement; therefore "current" is unnecessary for incorporation. The word "steam" in the response statement "secondary steam line rupture" is too specific for the revised FSAR statement because the subject operator action is

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appropriate for either a secondary system feedwater or steam line rupture; therefore "steam" is changed to "system" for incorporation. The last response sentence describes the bases for a Technical Specification requirement and is superfluous to the revised FSAR statement; therefore it is not being incorporated.

Change Request Number : SA-92-200.1
Commitment Register Number : NL-1859
Related SER : 15.3.5 SSER :22 15.3.5
SER/SSER impact : No

Q&R 212-205

4

Adds note indicating that the response to the NRC question would not be incorporated into the FSAR text.

Q&R Incorporation :

The NRC question requested information about a specific ECCS break. The response indicated the break in question was a subset of small break LOCAs. The information currently in the FSAR adequately addressess small break LOCAs and discusses a spectrum of breaks considered. This spectrum of breaks adequately represent the break in question. The information provided in the response to this question contains details concerning the specific ECCS break and is beyond the level of detail appropriate for a discussion of the CPSES small break LOCA analyses (See FSAR Section 15.6.5).

Change Request Number : SA-92-201.
Commitment Register Number :
Related SER : 15.6 SSER :
SER/SSER Impact : No

Q&R 212-209

4

Replaces response to Q212.137, concerning testing of overpressure protection components and low temperature overpressure protection (LTOP) analyses, with references to FSAR Sections 5.2.2.10 and 5.2.2.11. Also adds appropriate Q&R margin notations to identify location of incorporation.

Q&R Incorporation :

Q&R relocation is being performed to prepare the FSAR for the USAR.

Change Request Number : SA-92-204.1
Commitment Register Number : X2-0085
Related SER : 5.2.2 SSER :25 5.2.2
SER/SSER Impact : No

Q&R 212-213

4

See Sheet No(s) :213a & 213b
Replaces response to Q212.140(a), concerning prevention of forward air flow through check valves if one MOV failed to close, with a reference to Section 6.3.2.2.4. Replaces response to Q212.140(b), which refers to a related response in

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Q&R 212.113, with references to Section 6.3.2.8, Table 6.3-7 & new Table 6.3-11. Replaces response to Q212.140(c), concerning uncertainties in RWST level measurement, minimum amount of RWST water required for maximum ESF pump NPSH & completion of manual switchover assuming continued RHR suction from the RWST, with references to Sections 6.3.2.8 & 7.6.5, and Tables 6.3-1, 6.3-7 & new Table 6.3-11. Also adds appropriate Q&R margin notations to identify location of incorporation.

Q&R Incorporation :

Q&R relocation is being performed to prepare the FSAR for the USAR.

Change Request Number : SA-92-193.11
Commitment Register Number : OP-0305/OP-0306/X1-0959
Related SER : 6.3.2 SSER : 6.3.3
SER/SSER Impact : No

Q&R 212-220

4

See Sheet No(s) :221

Deletes the responses to Q212.144 and replaces them with references to where the information has been relocated or is already located in the FSAR text.

Q&R Incorporation :

This information is being relocated to the FSAR text as part of the process to convert the FSAR into an "updated FSAR" as required by 10CFR50.71(e).

Change Request Number : SA-92-210.
Commitment Register Number :
Related SER : 6.2.2 SSER :
SER/SSER Impact : No

Q&R Figure 212.006-1

4

Deletes Figure 212.6-1, Flow Rates for Floating Bushing, and moves contents to the end of Section 6.3. See Detailed Description for Table 6.3-8.

Q&R Incorporation :

Q&R relocation is being performed to prepare the FSAR for the USAR.

Change Request Number : SA-92-367.3
Commitment Register Number :
Related SER : 6.3.2 SSER :
SER/SSER Impact : No

Q&R Figure 212.006-2

4

Deletes Figure 212.6-2, Bushing Leak Rate After Severe Operation, and moves contents to the end of Section 6.3. See Detailed Description for Table 6.3-9.

Q&R Incorporation :

Q&R relocation is being performed to prepare the FSAR for the USAR.

Change Request Number : SA-92-367.4
Commitment Register Number :
Related SER : 6.3.2 SSER :
SER/SSER Impact : No

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Q&R Table 212.068-1	4	Deletes Table 212.68-1. Q&R Incorporation : See justification provided for page 212-131. Change Request Number : SA-92-22. Commitment Register Number : Related SER : 15 SSER : SER/SSER Impact : No
Q&R Table 212.068-2	4	Deletes Table 212.68-2. Q&R Incorporation : See justification provided for page 212-131. Change Request Number : SA-92-22. Commitment Register Number : Related SER : 15 SSER : SER/SSER Impact : No
Q&R Table 212.068-3	4	See Sheet No(s) :1 and 2 Deletes Table 212.68-3. Q&R Incorporation : See justification provided for page 212-131. Change Request Number : SA-92-22. Commitment Register Number : Related SER : 15 SSER : SER/SSER Impact : No
Q&R Figure 212.100-1	4	Replaces Q&R Figure 212.100-1, RHR Pump Mini-Flow Valve Interlock, with a reference to new FSAR Figure 5.4-20. Q&R Incorporation : Q&R relocation is being performed to prepare the FSAR for the USAR. Change Request Number : SA-92-60.2 Commitment Register Number : Related SER : 5.4.3 SSER :22 5.4.3 SER/SSER Impact : No
Q&R Table 212.113-1	4	Replaces Q&R Table 212.113-1, RWST Outflow Large Break - Worst Single Failure, with a reference to new FSAR Table 6.3-11. Q&R Incorporation : Q&R relocation is being performed to prepare the FSAR for the USAR. Change Request Number : SA-92-193.2 Commitment Register Number : Related SER : 6.3.2 SSER : 6.3.3 SER/SSER Impact : No
Q&R 221-5	4	See Sheet No(s) :6 Replaces a portion of the response to Q221.4, concerning ways in which postulated flow reductions are monitored, with a reference to FSAR Section 5.1. Adds a note stating that the information in the

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remainder of the response will not be incorporated into the updated FSAR text.

Q&R Incorporation :

This is an editorial change to this response in preparation for deletion of the Q&R Section when the updated FSAR is prepared. A portion of the response to Q221.4 is moved to FSAR Section 5.1 to allow this part of the response to be replaced with a reference to this Section. Information in this response, concerning ways in which postulated flow reductions are monitored, is now adequately addressed within FSAR text. The remainder of the response, re: indication from operating experience on Westinghouse design reactors that a flow resistance allowance for possible crud deposition is not required (along with supporting information), constituted a point-in-time response to facilitate the staff's review, and is beyond the level of detail appropriate for the FSAR. Thus, the remaining information need not be incorporated into the updated FSAR text.

Change Request Number : SA-92-215.1

Commitment Register Number : OP-0316

Related SER : 5.1 SSER :

SER/SSER Impact : No

Q&R 222-2

4

Replaces appropriate portions of the response to Q222.2, concerning review of the methods used for evaluation of critical flow in SATAN-V short-term mass and energy release analyses, with references to FSAR Section 6.2.1.2.3 and the references at the end of Section 6.2.1. The remainder of the response was deleted. References 3 through 10 were not incorporated into the FSAR text as being below the appropriate level of detail. Adds appropriate Q&R margin notations to identify location of incorporation.

Q&R Incorporation :

This is an editorial change to this response in preparation for deletion of the Q&R Section when the updated FSAR is prepared. Portions of the response to Q222.2 are moved to FSAR Section 6.2.1.2.3 and the references at the end of Section 6.2.1 to allow parts of the response to be replaced with references to these Sections. Information in this response, concerning review of the methods used for evaluation of critical flow in SATAN-V short-term mass and energy release analyses, is now adequately addressed within FSAR text. The remaining information, including References 3 through 10, provided extensive detail supporting the review and its results to facilitate the staff's review, and is beyond the level of detail appropriate for the FSAR. Thus, this information need not be incorporated into

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the updated FSAR text. Note that there were three versions of the SATAN computer code used: SATAN-IV for LOCA blowdown forces (Section 3.6B), SATAN-V as noted in this LDCR (Section 6.2) and SATAN-VI for LOCA App. K calculations (Section 15.6).

Change Request Number : SA-92-219.1

Commitment Register Number :

Related SER : 6.2.1 SSER :22 6.2.1

SER/SSER Impact : No

Q&R 222-3

4

Replaces a portion of the response to Q222.3, concerning Unit 1 initial steam generator water and steam inventories, with a reference to FSAR Section 6.2.1.1.3.2. Adds a note to the response stating that the information in the response will not be incorporated into the updated FSAR text, and for more direct references to information on initial steam generator water and steam inventories for both Units 1 and 2, see revised Section 6.2.1.1.3.2.

Q&R Incorporation :

The content of the first sentence of the response (reference to WCAP-8860) is moved to FSAR Section 6.2.1.1.3.2, and enhanced with references to additional Westinghouse documents which contain information on initial steam generator water and steam inventories, to allow this part of response to be replaced with a reference to Section 6.2.1.1.3.2. The remainder of the response provided detailed information on the initial design mass inventories for Unit 2, which is also contained in a Westinghouse document. Though not being incorporated word-for-word, the detailed content of the response is being incorporated into the FSAR by reference in Section 6.2.1.1.3.2, with these specific references listed at the end of Section 6.2.1. Information contained in the response provided a point-in-time response to facilitate the staff's review, but is beyond the level of detail which is appropriate for the FSAR. Providing specific references within FSAR text to Westinghouse documents, which contain information on initial design mass inventories, is adequate incorporation of this information; the Q&R response, as written, will not need to be incorporated into the updated FSAR text.

Change Request Number : SA-92-220.1

Commitment Register Number :

Related SER : 6.2.1 SSER :22 6.2.1

SER/SSER Impact : No

Q&R 222-4

4

See Sheet No(s) :5

Replaces response to Q222.4, concerning the analysis of feedwater transient flow to a faulted steam

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generator following a main steam line break, with a reference to revised FSAR Section 6.2.1.4. Also adds appropriate Q&R margin notations to identify location of Q&R incorporation.

Q&R Incorporation :

Relocation of Q222.4 response to FSAR text in preparation for the USAR.

Change Request Number : SA-92-221.1

Commitment Register Number :

Related SER : 6.2.1 SSER :22 6.2.1

SER/SSER Impact : No

Q&R Table 222.2-1

4

Deletes Q&R Table displaying the break sizes and locations analyzed to assure the conservatism of the SATAN-V computer code.

Q&R Incorporation :

This is an editorial change to Q222.2 response in preparation for deletion of the Q&R Section when the updated FSAR is prepared. This table provided detail supporting the review documented in the response text. This information facilitated the staff's review, but is beyond the level of detail appropriate for the FSAR. Thus, this information need not be incorporated into the updated FSAR text.

Change Request Number : SA-92-219.2

Commitment Register Number :

Related SER : 6.2.1 SSER :22 6.2.1

SER/SSER Impact : No

Q&R Figure 222.2-1

4

Deletes Figure Q222.2-1, Reactor Cavity Hot Leg Break Comparison.

Q&R Incorporation :

This is an editorial change to Q222.2 response in preparation for deletion of the Q&R Section when the updated FSAR is prepared. This figure provided detail supporting the review documented in the response text. This information facilitated the staff's review, but is beyond the level of detail appropriate for the FSAR. Thus, this information need not be incorporated into the updated FSAR text.

Change Request Number : SA-92-219.3

Commitment Register Number :

Related SER : 6.2.1 SSER :22 6.2.1

SER/SSER Impact : No

Q&R Figure 222.2-2

4

Deletes Figure Q222.2-2, Reactor Cavity Cold Leg Break Comparison.

Q&R Incorporation :

This is an editorial change to Q222.2 response in preparation for deletion of the Q&R Section when the updated FSAR is prepared. This figure provided detail supporting the review documented in the response text. This information facilitated the

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staff's review, but is beyond the level of detail appropriate for the FSAR. Thus, this information need not be incorporated into the updated FSAR text.

Change Request Number : SA-92-219.4

Commitment Register Number :

Related SER : 6.2.1 SSER :22 6.2.1

SER/SSER Impact : No

Q&R Figure 222.2-3 4

Deletes Figure Q222.2-3, SG Inlet Nozzle Elbow Break Comparison.

Q&R Incorporation :

This is an editorial change to Q222.2 response in preparation for deletion of the Q&R Section when the updated FSAR is prepared. This figure provided detail supporting the review documented in the response text. This information facilitated the staff's review, but is beyond the level of detail appropriate for the FSAR. Thus, this information need not be incorporated into the updated FSAR text.

Change Request Number : SA-92-219.5

Commitment Register Number :

Related SER : 6.2.1 SSER :22 6.2.1

SER/SSER Impact : No

Q&R Figure 222.2-4 4

Deletes Figure Q222.2-4, RCP Cold Leg Nozzle Break Comparison.

Q&R Incorporation :

This is an editorial change to Q222.2 response in preparation for deletion of the Q&R Section when the updated FSAR is prepared. This figure provided detail supporting the review documented in the response text. This information facilitated the staff's review, but is beyond the level of detail appropriate for the FSAR. Thus, this information need not be incorporated into the updated FSAR text.

Change Request Number : SA-92-219.6

Commitment Register Number :

Related SER : 6.2.1 SSER :22 6.2.1

SER/SSER Impact : No

Q&R Figure 222.2-5 4

Deletes Figure Q222.2-5, SG Outlet Nozzle Break Comparison.

Q&R Incorporation :

This is an editorial change to Q222.2 response in preparation for deletion of the Q&R Section when the updated FSAR is prepared. This figure provided detail supporting the review documented in the response text. This information facilitated the staff's review, but is beyond the level of detail appropriate for the FSAR. Thus, this information need not be incorporated into the updated FSAR text.

Change Request Number : SA-92-219.7

Commitment Register Number :

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Related SER : 6.2.1 SSER :22 6.2.1
SER/SSER Impact : No

Q&R 231-8

4

Replaces a portion of the response to Q231.6, concerning on-line fuel rod failure detection methods and post-irradiation fuel surveillance program for both units, with references to FSAR Section 11.5.2.7.11/Table 11.5.1 and new Section 4.2.4.7, respectively. Adds a note stating that the remaining information will not be incorporated into the updated FSAR text. Also adds appropriate Q&R margin notations to identify location of Q&R incorporation.

Q&R Incorporation :

This is an editorial change to this response in preparation for deletion of the Q&R Section when the updated FSAR is prepared. (1) Though the reference in the first paragraph of the response to FSAR Section 11.5.2.7.11 is adequate, the remaining references to Section 11.5 and page 11.5-28i are either too general or outdated; updated references to adequately incorporated information, concerning on-line fuel rod failure detection methods, is provided. (2) Information in the the second paragraph and a phrase from the third paragraph are moved to new Section 4.2.4.7 to allow this part of the response to be replaced with a reference to this Section. Information in this response, concerning post-irradiation fuel surveillance program for both units, is now adequately addressed within the FSAR. (3) The remainder of the response was a general, point-in-time concluding statement to facilitate the staff's review, and is beyond the level of detail which is appropriate for the FSAR. Thus, the remaining information will not need to be incorporated into the updated FSAR text.

Change Request Number : SA-92-230.1
Commitment Register Number : RE-0230-001/002
Related SER : 4.2.1 SSER :26 4.2.1
SER/SSER Impact : No

Q&R 231-22

4

Adds note indicating that the response to the NRC question would not be incorporated into the updated FSAR text.

Q&R Incorporation :

Q231.14 requested that information presented in the FSAR concerning ECCS models be supplemented by calculations using models from draft NUREG-0630. The information was requested from plants undergoing licensing review while the NRC staff was performing a generic view of the then new acceptance criteria for cladding models. The response provided the requested calculation referencing the 1978 version

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of the Westinghouse ECCS Evaluation model. The response was point-in-time information provided to assist the staff during its generic ECCS acceptance review and is beyond the level of detail generally provided in the FSAR. Furthermore, the information provided is no longer current since Unit 1, Cycle 4 used the NRC approved methodology in TU Electric topical report RXE-90-007, and Unit 2, Cycle 1 used the NRC approved 1981 version of the Westinghouse ECCS Evaluation model, WCAP-9220-P-A.

Change Request Number : SA-92-238.

Commitment Register Number :

Related SER : 15.6 SSER :

SER/SSER Impact : No

Q&R 260-7

4

Replaces portions of Q260.1 response, concerning identification of safety-related structures, systems and components controlled by the QA program, with references to FSAR Sections 7.2.1.1.2.6, 11.5.2.6.9, 12.3.4.1.1, 12.5.2, 17.2.8, 17.2.12, II.B.2, II.E.1.1, II.E.1.2, II.E.4.1, II.G.1, II.K.3.1, II.K.3.25, III.A.1.2, III.A.2, III.D.3.3, III.D.3.4 & Table 17A-1. Adds a note stating that the remaining information will not be incorporated into the updated FSAR text.

Q&R Incorporation :

This is an editorial change to this response in preparation for deletion of the Q&R Section when the updated FSAR is prepared. Information in the response has already been adequately addressed within parts of Table 17A-1 and FSAR Sections II.E.4.1, II.E.4.2, II.K.3.1 & II.K.3.5. Portions of the Q260.1 response are moved to FSAR Sections 7.2.1.1.2.6, 11.5.2.6.9, 12.3.4.1.1, 12.5.2, 17.2.8, 17.2.12, II.B.2, II.E.1.1, II.E.1.2, II.G.1, II.K.3.25, III.A.1.2, III.A.2, III.D.3.3, III.D.3.4 & Table 17A-1 to allow these portions of the response to be replaced with references to these Sections. Information in this response, concerning identification of specific safety-related structures, systems and components controlled by the QA program, is now adequately addressed within FSAR text. Responses to Q260.1.b.18, & Q260.1.c.6 provided point-in-time responses (re: correction to an NRC assumption & non-applicability of a TMI Action Plan requirement) to facilitate the staff's review and are beyond the level of detail which is appropriate for the FSAR. Thus, the remaining information in this response need not be incorporated into the updated FSAR text.

Change Request Number : SA-92-255.1

Commitment Register Number :

Related SER : 17.3 SSER : 22 17.3

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SER/SSER Impact : No

Q&R 281-3

4

See Sheet No(s) : 4

Replaces response to Q281.2, concerning sampling performed to monitor spent fuel pool water purity & determine need for spent fuel pool cleanup system demineralizer resin and filter replacement, with references to FSAR Sections 9.1.3.4 & 12.2.1.2.2.

Q&R Incorporation :

Q&R relocation is being performed to prepare the FSAR for the USAR.

Change Request Number : SA-92-258.1

Commitment Register Number : CE-0098-001/OP-0319-001

Related SER : 9.1.3 SSER :

SER/SSER Impact : No

Q&R 281-6

4

See Sheet No(s) : 7

Replaces portions of Q281.3 response, concerning the Post Accident Sampling System, with references to FSAR Sections 5.4.3.2, 9.3.2.1, 9.3.2.2.1, 9.3.2.2.3, 9.3.2.3, 9.3.4.1.2.5, 15.6.2, II.B.3.2.8.b, II.B.3.3.1, II.B.3.3.2 & II.B.3.4; Tables 9.3-7, 9.3-8 & 11.2-3; Figures 5.1-1, 9.3-4, 9.3-10, 9.3-11, 9.4-6, 11.2-3 thru 11.2-9 & II.B.3-1. Adds a note to R281.3 (c) & (d) stating that the remaining information will not be incorporated into the updated FSAR text. Also adds appropriate Q&R margin notations to identify location of incorporation.

Q&R Incorporation :

This is an editorial change to this response in preparation for deletion of the Q&R Section when the updated FSAR is prepared. Q281.3 (a) response is already adequately addressed within FSAR Sections II.B.3.2.8.b, II.B.3.3.1 & II.B.3.4. Q281.3 (b) response refers to information contained in Section 9.3.2.2.3, Tables 9.3-4, 9.3-7, 9.3-8 & 11.2-3, and Figures 9.3-10, 9.3-11, and 11.2-3 thru 11.2-9. The response (b) itself is moved to Sections 9.3.2.1 & 9.3.4.1.2.5 to allow (b) to be replaced with these Sections along with appropriate references. Q281.3 (c) response refers to information contained in Sections 5.4.3.2 & 15.6.2, and Figure 5.1-1. Part of the information in response (c) is moved to Section 9.3.2.3 to allow this part to be replaced with this Section along with appropriate references. The remainder of response (c) notes that additional flow restrictions are not required along with potential negative consequences; this was a point-in-time response to facilitate the staff's review, and is beyond the level of detail appropriate for the FSAR. Thus, it need not be incorporated into the updated FSAR text. Q281.3 (d) response notes

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that Regulatory Guide 1.143 does not apply to sampling systems; this was a point-in-time response to facilitate the staff's review, and is beyond the level of detail appropriate for the FSAR. Thus, it need not be incorporated into the updated FSAR text. Q281.3 (e) response, re: additional sampling provisions per NUREG-0737, II.B.3, has been adequately addressed in Sections 9.3.2.2.1, II.B.3.3.1, II.B.3.3.2, II.B.3.4 and Figures 9.3-4, 9.4-6 & II.B.3-1. Information in the response to Q281.3, concerning the Post Accident Sampling System, is now adequately addressed within FSAR text.

Change Request Number : SA-92-259.1
Commitment Register Number : TS-0080/TS-0081/X2-0122
Related SER : 9.3.2 SSER : II.B.3
SER/SSER Impact : No

Q&R 311-5

4

See Sheet No(s) : 6, 7 & 8
Replaces portions of Q311.3 response concerning detonation of explosives, and effects of a gas well blowout and fire, with references to FSAR Sections 2.2.3.1.1 & 2.2.3.2.1, respectively. Adds a note stating that the remaining information will not be incorporated into the updated FSAR text. Also, adds appropriate Q&R margin notations to identify location of Q&R incorporation.

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. Q311.3 response (c), (d) & (e), and most of (a) & (f) are incorporated into FSAR Sections 2.2.3.1.1 and 2.2.3.2.1 to allow these portions of the response to be replaced with references to these Sections. The remainder of (a) & (f), re: gas well fire & atmospheric dispersion model used, provided detail to support a point-in-time response to facilitate the staff's review, and are beyond the level of detail which is appropriate for the FSAR. Thus, this information will not need to be incorporated into the updated FSAR text. Q311.3 response (b) noted that an analysis of the consequences of postulated oil extraction was not performed due to the fact that no exploratory or producing oil or gas wells existed within five miles of CPSES prior to 1974. The first area production was reported in 1977; in light of new data, a study was performed and was included in FSAR Section 2.5 (3.1.2.2) via Amendment 68. Therefore, the information in (b) has been superseded and need not be incorporated into the updated FSAR.

Change Request Number : SA-92-262.1
Commitment Register Number :

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Related SER : 2.2 SSER :
SER/SSER Impact : No

Q&R 312-19

4

Replaces a portion of the response to Q312.17, concerning minimum ambient design temperature for the Safeguards Building; concentration, % by weight, of the chemical additive solution; and, crystallization temperature of the chemical additive solution, with references to FSAR Section 6.5.2.2.2, and Tables 6.5-2 & 9.4-2. Adds a note stating that the remaining information will not be incorporated into the updated FSAR text. Also adds appropriate Q&R margin notations to identify location of incorporation.

Q&R Incorporation :

This is an editorial change to this response in preparation for deletion of the Q&R Section when the updated FSAR is prepared. Minimum ambient design temperature for the Safeguards Building, and concentration, % by weight, of the chemical additive solution are already adequately addressed within Table 9.4-2, and Section 6.5.2.2.2 & Table 6.5-2, respectively. A portion of the response to Q312.17 is moved to Section 6.5.2.2.2 to allow this part of the response to be replaced with a reference to this Section. Information in this response, re: crystallization temperature of the chemical additive solution, is now adequately addressed within FSAR text. The remainder of the response, concluding from the above information that heat tracing of the chemical additive tank & associated piping and valves is not necessary, 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 remaining information in this response need not be incorporated into the updated FSAR text.

Change Request Number : SA-92-272.1
Commitment Register Number : OP-0320
Related SER : 6.5.2 SSER : 22 6.5.2
SER/SSER Impact : No

Q&R 320-1

4

Replaces a portion of the response to Q320.1, concerning compliance with BTP ESTB 11-1, Rev. 1, design code information for equipment respective to safety classification, compliance of the atmospheric cleanup systems with Regulatory Guide 1.52, and radwaste system design with references to FSAR Sections 6.5 & 11.2, Tables 6.5-1 & 17A-1, and Appendix 1A(B). Adds a note stating that the remaining information, re: reverse osmosis, will not be incorporated into the updated FSAR text. Also adds appropriate Q&R margin notations to identify

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location of incorporation.

Q&R Incorporation :

This is an editorial change to this response in preparation for deletion of the Q&R Section when the updated FSAR is prepared. Information in the response to Q320.1, concerning design code information for equipment respective to safety classification, compliance of the atmospheric cleanup systems with Regulatory Guide 1.52, and radwaste system design, is already adequately addressed in Sections 6.5 & 11.2, Table 6.5-1, and Appendix 1A(B). Information in the first part of the response is moved to Table 17A-1 to allow this part of the response to be replaced with a reference to this Table. Information re: compliance with BTP ESTB 11-1, Rev. 1 is now adequately addressed within FSAR text. The remainder of the response addresses exceptions to BTP ESTB 11-1 which relate to components of the reverse osmosis system. As noted in a later amendment to Section 11.2 (Amendment 85 vs. Amendment 42), the reverse osmosis system was abandoned in place and was not to be used. Information in Section 11.2, as revised, makes incorporation of information in this response, which specifically relates to the reverse osmosis system, inappropriate and unnecessary. Thus, the remaining information in this response need not be incorporated into the updated FSAR.

Change Request Number : SA-92-276.1

Commitment Register Number :

Related SER : 11.2 SSER :22 11.2

SER/SSER Impact : No

Q&R 320-4

4 See Sheet No(s) :5

Replaces response to Q320.4, concerning gaseous & liquid release points, with references to 9.4.4, 9.4D.2 & 10.4.5. Also adds appropriate Q&R margin notations to identify location of incorporation.

Q&R Incorporation :

Q&R relocation is being performed to prepare the FSAR for the USAR.

Change Request Number : SA-92-278.1

Commitment Register Number :

Related SER : 9.4 SSER : 10.4.5

SER/SSER Impact : No

Q&R 331-11

4

Replaces a portion of the response to Q331.2, concerning inherent design features which will assist in keeping occupational radiation exposure ALARA during decommissioning, with a reference to FSAR Section 12.3.1.4. Adds a note stating that the remaining information will not be incorporated into the updated FSAR text.

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Q&R Incorporation :

This is an editorial change to this response in preparation for deletion of the Q&R Section when the updated FSAR is prepared. Information in the second & third sentences of the first paragraph and the entirety of the second paragraph of Q331.2 response is moved to FSAR Section 12.3.1.4, and a reference added to the end of Section 12.3, to allow the response to be replaced with a reference to Section 12.3.1.4. Information in this response, concerning inherent design features which will assist in keeping occupational radiation exposure ALARA during decommissioning, is now adequately addressed within FSAR text. The remaining, unincorporated information was a point-in-time response to facilitate the staff's review, and is not appropriate for inclusion in the FSAR. Thus, the remaining information in this response need not be incorporated into the updated FSAR text.

Change Request Number : SA-92-283.1

Commitment Register Number :

Related SER : 12.1.4 SSER :

SER/SSER Impact : No

Q&R 331-13

4

Replaces a portion of the response to Q331.4, concerning dressing facilities for both men and women with a reference to FSAR Section 12.5.2.2. Adds a reference to FSAR Section 12.5.2.3 which discusses implant issuance of protective clothing. Adds a note stating that the remaining information will not be incorporated into the updated FSAR text. Also adds appropriate Q&R margin notations to identify location of incorporation.

Q&R Incorporation :

This is an editorial change to this response in preparation for deletion of the Q&R Section when the updated FSAR is prepared. A portion of the response to Q331.4 is moved to FSAR Section 12.5.2.2 and a reference is added to FSAR Section 12.5.2.3. This allows part of the response to be replaced with references to these FSAR Sections. Information in this response concerning dressing facilities for both men and women and related implant protective clothing issuance is now adequately addressed within FSAR text. The remainder of the response refers to two Figures which were deleted in FSAR Amendment 87; see LDCR# SA-92-752 (TUS-93034). Though the general subject matter of these Figures (as discussed in the response) is incorporated within FSAR text, it is inappropriate to incorporate specific references to these deleted Figures. Thus, this information need not be incorporated into the updated FSAR text.

Change Request Number : SA-92-285.1

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Commitment Register Number :
 Related SER : 12.3 SSER :26 12.3
 SER/SSER Impact : No

Q&R 331-14

4

Incorporate Q&R into FSAR section 13.1
 Q&R Incorporation :

As a result of the reorganization, the function referenced by Q331.5 has been relocated under a key managerial position as described in FSAR section 13.1. This function is performed under the direct supervision of this key position, and remains independent of the overall design process.

Change Request Number : SA-94-5.12
 Commitment Register Number :
 Related SER : SSER :
 SER/SSER Impact : No

Q&R 331-16

4

Replaces a portion of the response to Q331.7 concerning dressing facilities for both men and women with a reference to FSAR Section 12.5.2.2. Replaces a portion of the response to Q331.7 concerning use of radiation detecting instrumentation at exit from contaminated areas with a reference to FSAR Section 12.5.3.3. Adds a note stating that the remaining information, including Figure 331.7-1, will not be incorporated into the updated FSAR text. Also adds appropriate Q&R margin notations to identify location of incorporation.
 Q&R Incorporation :

This is an editorial change to this response in preparation for deletion of the Q&R Section when the updated FSAR is prepared. A portion of the response to Q331.7 is moved to FSAR Section 12.5.2.2 to allow part of the response to be replaced with a reference to this Section. Information in this response concerning dressing facilities for both men and women is now adequately addressed within FSAR text. Also, a portion of the response is moved to FSAR Section 12.5.3.3 to allow part of the response to be replaced with a reference to this Section. Information in this response regarding measures to control the spread of radioactive contamination to clean plant areas is now adequately addressed within FSAR text. The last paragraph in the response refers to a Figure which was deleted in FSAR Amendment 87; see LDCR# SA-92- 752 (TUS-93034). Though the general subject matter of this paragraph is incorporated within FSAR text, it is inappropriate to incorporate a specific reference to this deleted Figure. Thus, this information need not be incorporated into the updated FSAR text. Also, the first sentence of the response refers to Figure 331.7-1, which contains an example of a contaminated area control point; this

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is the type of information, in general, which was deleted from the FSAR via Amendment 87. Therefore, this figure need not be incorporated into the updated FSAR.

Change Request Number : SA-92-285.2
Commitment Register Number : X1-0973/0974
Related SER : 12.3 SSER :26 12.3
SER/SSER Impact : No

Q&R 331-21

4 See Sheet No(s) :22

Replaces a portion of the response to Q331.12, concerning airborne radioactivity monitoring, with references to FSAR Sections 11.5.2.5, 12.3.4.2, Table 11.5-1, and revised Section 12.3.4.1. Adds a note stating that the remaining information will not be incorporated into the updated FSAR text. Also adds appropriate Q&R margin notations to identify location of incorporation.

Q&R Incorporation :

This is an editorial change to this response in preparation for deletion of the Q&R Section when the updated FSAR is prepared. (1) Information in the second sentence of the first paragraph of the response to Q331.12, as well as the reference to Table 11.5-1, is moved to FSAR Section 12.3.4.1.3 to allow this part of the response to be replaced with a reference to this Section. Information in the first sentence of the first paragraph, re: unit of measurement for detectors (uCi/cc), is adequately described on FSAR Table 11.5.1 (to be referenced above). The last sentence of the first paragraph references Table 12.3-7; this table has been deleted from the FSAR. Information on the sensitivities of these monitors is adequately provided in Table 11.5-1, which is being moved to Section 12.3.4.1.3. In summary, the reference to Table 12.3-7 need not be incorporated into the updated FSAR. (2) The first sentence of the second paragraph, re: PRMS & ARMS, is adequately addressed in Section 12.3.4.1. The second sentence, re: RMS, is moved to Section 12.3.4.1 to allow this part of the response to be replaced with a reference to this Section. (3) The first sentence of the third paragraph, re: RMS general description, is adequately addressed in Section 11.5.2.5.1. The second sentence, re: RMS being a state-of-the-art capability, was a point-in-time response to facilitate the staff's review, and need not be incorporated. (4) Capability of the RMS to monitor airborne radioactivity levels is adequately addressed in Section 11.5.2.5. (5) Use of annunciator alarms in the identification of a building in which abnormal levels of airborne radioactivity exists is adequately addressed in

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Section 12.3.4.1.1. Additional information on area monitors located in these buildings is moved to Section 12.3.4.1.1 to allow this part of the response to be replaced with a reference to this Section. Monitor location bases is adequately addressed in Section 12.3.4.2.2. (6) Response to the annunciation of an alarm in the Control Room (including references to Sections 11.5.2.5.3 & 11.5.2.5.6) is moved to Section 12.3.4.1 to allow this part of the response to be replaced with a reference to this Section.

Information in this response which relates to fixed systems of airborne radioactivity monitoring is now adequately addressed within FSAR text.

Change Request Number : SA-92-287.1
Commitment Register Number : HP-0073-002
Related SER : 12.3 SSER :26 12.3
SER/SSER Impact : No

Q&R 331-33

4

Replaces response to Q331.22, concerning computer codes used for shielding design, with a reference to FSAR Section 12.3.2.2.

Q&R Incorporation :

Q&R relocation is being performed to prepare the FSAR for the USAR.

Change Request Number : SA-92-558.1
Commitment Register Number :
Related SER : 12.3.2 SSER :26 12.3
SER/SSER Impact : No

Q&R Figure 331.7-1

4

Deletes figure, representing an example of a contaminated area control point. See note added to Q&R 331.7.

Q&R Incorporation :

This figure served as a point-in-time response to facilitate the staff's review, and contains specific, detailed information. This information is beyond the level of detail which is appropriate for the FSAR. Thus, the information need not be incorporated into the updated FSAR text. For further information, see SA-92-285.2.

Change Request Number : SA-92-285.3
Commitment Register Number :
Related SER : 12.3 SSER :26 12.3
SER/SSER Impact : No

Q&R 372-17

4

See Sheet No(s) :18, 19, 20, 21 & 22

Replaces response to Q372.17 with a reference to revised FSAR Section 2.3.4.2.

Q&R Incorporation :

Q&R relocation is being performed to prepare the FSAR for the USAR.

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Commitment Register Number :
Related SER : 2.3.4 SSER :
SER/SSER Impact : No

Q&R 372-23 4 Replaces response to Q372.18 with a reference to see revised FSAR Section 2.3.4.2.

Q&R Incorporation :

Q&R relocation is being performed to prepare the FSAR for the USAR.

Change Request Number : SA-92-469.5

Commitment Register Number :

Related SER : 2.3.4 SSER :

SER/SSER Impact : No

Q&R 372-24 4 See Sheet No(s) :25, 26 & 27
Replaces portion of Q372.19 response concerning atmospheric dispersion factors, specifically 5-percentile meteorological conditions, with a reference to FSAR Section 2.2.3.2.1. Adds a note stating that the remaining information will not be incorporated into the updated FSAR text. Also, adds appropriate Q&R margin notations to identify location of Q&R incorporation.

Q&R Incorporation :

This is an editorial change to this response in preparation for deletion of the Q&R Section when the updated FSAR is prepared. Portions of Q372.19 response were incorporated into FSAR Section 2.2.3.2.1 to allow these portions to be replaced with a reference to this Section. The remainder of the response, re: atmospheric dispersion calculations & formulas, provided detailed information to support a point-in-time response to facilitate the staff's review, and are beyond the level of detail which is appropriate for the FSAR. Thus, the remaining information in this response need not be incorporated into the updated FSAR text.

Change Request Number : SA-92-262.2

Commitment Register Number :

Related SER : 2.2 SSER :

SER/SSER Impact : No

Q&R 372-60 4 Replaces portions of Q372.39 response, concerning estimation of atmospheric dispersion in the gas pipeline accident, with a reference to FSAR Section 2.2.3.2.1. Adds a note to Q372.39 response stating that the remaining information will not be incorporated into the updated FSAR text.

Q&R Incorporation :

This is an editorial change to this response in preparation for deletion of the Q&R Section when the updated FSAR is prepared. Portions of the Q372.39 response have been incorporated into FSAR Section

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2.2.3.2.1 to allow these parts of the response to be replaced with a reference to this Section. Information provided in this response is now adequately addressed within FSAR text. The remainder of R372.39 (1) & (2), as well as (3), (4) (i) & (4) (ii) in their entirety, provided detail to support a point-in-time response to facilitate the staff's review, and are beyond the level of detail which is appropriate for the FSAR. For example, R372.39 (3) contains the plume rise model from Briggs, as utilized; Section 2.2.3.2.1 already acknowledges that the plume rise is in accordance with the Briggs equation for stable atmospheric conditions, and references "Plume Rise" by G.A. Briggs, Equations 4.19c, 4.32 & 5.7. In addition, the results of (4) (i) & (ii) are already summarized within Section 2.2.3.2.1. Thus, the remaining information in this response need not be incorporated into the updated FSAR text.

Change Request Number : SA-92-490.1
Commitment Register Number :
Related SER : 2.2 SSER :
SER/SSER Impact : No

Q&R Table 372.17-1 4

Deletes this table which is part of the response to Q372.17.

Q&R Incorporation :

Q372.17 response has been replaced with a note to see revised FSAR Section 2.3.4.2. Q&R relocation is being performed to prepare the FSAR for the USAR.

Change Request Number : SA-92-469.2
Commitment Register Number :
Related SER : 2.3.4 SSER :
SER/3SER Impact : No

Q&R Table 372.17-2 4

Deletes this table which is part of the response to Q372.17.

Q&R Incorporation :

Q372.17 response has been replaced with a note to see revised FSAR Section 2.3.4.2. Q&R relocation is being performed to prepare the FSAR for the USAR.

Change Request Number : SA-92-469.3
Commitment Register Number :
Related SER : 2.3.4 SSER :
SER/SSER Impact : No

Q&R Table 372.17-3 4

Deletes this table which is part of the response to Q372.17.

Q&R Incorporation :

Q372.17 response has been replaced with a note to see revised FSAR Section 2.3.4.2. Q&R relocation is being performed to prepare the FSAR for the USAR.

Change Request Number : SA-92-469.4

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Commitment Register Number :
Related SER : 2.3.4 SSER :
SER/SSER Impact : No

Q&R 400-1

4

Adds a note stating that information comprising the response to Q400.1 will not be incorporated into the updated FSAR text. Refers to related information located in FSAR Section 1.2.2.12. Also adds an appropriate Q&R margin notation to identify location of related information.

Q&R Incorporation :

This is an editorial change to this response in preparation for deletion of the Q&R Section when the updated FSAR is prepared. Information in the response to Q400.1, concerning reprint of figures in FSAR Section 1.2 to correct legibility problems, has been superceded by a revision to FSAR Section 1.2.2.12 (Amendment 83 dated 12/13/91). This revision noted that (1) the figures provided additional detail beyond what was necessary for general arrangements, (2) the figures will be updated as necessary to provide reasonable understanding of the general arrangement of major plant structures & equipment, and (3) additional detail on these drawings will not be updated. Justification for this change is provided in LDCR# SA-91-110.

Change Request Number : SA-94-16.1
Commitment Register Number :
Related SER : 1.2 SSER :
SER/SSER Impact : No

Q&R 400-2

4

Adds a note stating that information in the response to Q400.2 will not be incorporated into the updated FSAR text. Refers to related information located in FSAR Sections 1.1 & 1.4. Also adds appropriate Q&R margin notations to identify location of related information.

Q&R Incorporation :

This is an editorial change to this response in preparation for deletion of the Q&R Section when the updated FSAR is prepared. Information requested in Q&R 400.2, concerning identification of co-owners as co-applicants, was superceded via Amendment 75. This revision noted that "effective January 1, 1984, TUCO reorganized several of its subsidiaries through the formation of a new corporate entity named Texas Utilities Electric Company (TUEC). The reorganization was effected through a consolidation of DP&L, TESCO and TP&L." This revision makes the information in the response obsolete and inappropriate for incorporation. The organizational entity, as revised, is reflected on all appropriate

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licensing documents.

Change Request Number : SA-94-17.1
Commitment Register Number :
Related SER : 1.1 SSER : 1.4
SER/SSER Impact : No

Q&R 400-5

4

Adds a note stating that the remaining information in the response to Q400.3 will not be incorporated into the updated FSAR text. Refers to previously incorporated information in FSAR Appendices 1A(N) & 1A(B).

Q&R Incorporation :

This is an editorial change to this response in preparation for deletion of the Q&R Section when the updated FSAR is prepared. Information originally from the response to Q400.3, concerning CPSES conformance to certain Regulatory Guides, is already adequately addressed in Appendices 1A(N) & 1A(B). The remaining information in this response concerned the parameters of the evaluation of the applicability, and compliance to, these Regulatory Guides. This information provided a point-in-time response designed to facilitate the NRC's review, and is beyond the level of detail appropriate for the FSAR. Thus, this information need not be incorporated into the updated FSAR text.

Change Request Number : SA-94-18.1
Commitment Register Number :
Related SER : SSER :
SER/SSER Impact : No

Q&R 400-6

4

Adds a note to the response to Q400.4 stating that the remaining information will not be incorporated into the updated FSAR text.

Q&R Incorporation :

This is an editorial change to this response in preparation for deletion of the Q&R Section when the updated FSAR is prepared. The response to Q400.4 is comprised of a table which lays out CPSES compliance with subsections of 10CFR20, 50 & 100 & their appendices. This table provided a point-in-time response to the NRC designed to facilitate their review, and is beyond the level of detail appropriate for the FSAR. Information on regulatory compliance has, as the FSAR has developed, been incorporated into the FSAR text, as appropriate. Thus, this information need not be incorporated into the updated FSAR text.

Change Request Number : SA-94-19.1
Commitment Register Number :
Related SER : SSER :
SER/SSER Impact : No

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Q&R Table 400.4-1	4	<p>Deletes Table Q400.4-1, Tabulation of CPSES Compliance with 10 CFR 20, 50 & 100.</p> <p>Q&R Incorporation : See Justification for the change to page Q&R 400-6 (SA-94-019.1).</p> <p>Change Request Number : SA-94-19.2 Commitment Register Number : Related SER : SSER : SER/SSER Impact : No</p>
Q&R 422-1	4	<p>See Sheet No(s) :2 Incorporate Q&R into body of FSAR section 13.1</p> <p>Q&R Incorporation : The position qualifications referenced in Q422.1 are met by the position added to table 13.1-1. The current position meets the requirements of Regulatory Guide 1.8 rev.2 which endorses the ANSI qualification requirements by reference.</p> <p>Change Request Number : SA-94-5.11 Commitment Register Number : Related SER : SSER : SER/SSER Impact : No</p>
Q&R 423-35	4	<p>Adds note to the response to Q423.14 stating that a portion of the information will not be incorporated into the Updated FSAR (USAR).</p> <p>Q&R Incorporation : This is an editorial change to the response in preparation for deletion of the Q&R section when the Updated FSAR (USAR) is prepared. The response contains information beyond the level of detail appropriate to the FSAR. Table 14.2-2, Auxiliary, Fuel, and Safeguards Building Ventilation Test Summary, was revised in Amendment 66 to address Q423.14 concerns. Test Method #6 was revised to demonstrate the performance of the ESF pump room coolers because the original test method may not have demonstrated adequate ventilation in the ESF pump rooms because of the possibility of not achieving design heat loads during Hot Functional Testing. In addition, the associated pre-operational test procedures were reviewed and determined adequate by the NRC as part of the licensing of CPSES Units 1 and 2.</p> <p>Change Request Number : SA-92-538. Commitment Register Number : Related SER : 14 SSER :27 14 SER/SSER Impact : No</p>
Q&R 423-43	4	<p>See Sheet No(s) :44 Replaces part of response to Q423.18, concerning compliance with IEEE 308 & description of the verification of the capability of the offsite power</p>

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system to serve as a source of power to the emergency busses during the initial test program, with references to FSAR Sections 8.3.1.1.1, 8.3.1.1.5.2 & 8.3.1.2.1.10, and Table 14.2-2 (Sheet 35). Adds a note to the response stating that the remaining information will not be incorporated into the updated FSAR text. Also adds appropriate Q&R margin notations to identify location of incorporation.

Q&R Incorporation :

This is an editorial change to this response in preparation for deletion of the Q&R Section when the updated FSAR is prepared. Information in the response to Q423.18, re: compliance with IEEE 308 is already adequately addressed within FSAR Sections 8.3.1.1.1 and 8.3.1.2.1.10. Information in the response, referring to the initial test program verifying the capability of the offsite power system to serve as a source of power to the emergency busses, is also adequately addressed within Table 14.2-2 (Sheet 35). A sentence is added to Section 8.3.1.1.5.2 linking information in this Section with the Table; this addition allows related information in the response to be replaced with a reference to this Section. Information in the response, concerning compliance with IEEE 308 & description of the verification of the capability of the offsite power system to serve as a source of power to the emergency busses during the initial test program, is now adequately addressed within FSAR text. The remaining information noted that no credit was taken in the FSAR for the startup transformers being capable of supplying maximum plant auxiliary load in addition to the emergency load on the emergency busses; this was a point-in-time response to facilitate the staff's review, and is beyond the level of detail appropriate to the FSAR. Thus, this information need not be incorporated into the updated FSAR text.

Change Request Number : SA-92-541.1
Commitment Register Number : X1-0859
Related SER : 8.3.1 SSER : 14
SER/SSER Impact : No

Q&R 423-46a

4

Adds a note to the response stating that the response will not be incorporated into the updated FSAR text.

Q&R Incorporation :

The information provided is included in appropriate preoperational test procedures & results documentation and deals with preoperational testing which is now complete and is therefore historical. Thus, this information is not required in the

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updated FSAR text.
Change Request Number : SA-92-542.1
Commitment Register Number :
Related SER : 8.3 SSER :26 14
SER/SSER Impact : No