



South Texas Project Electric Generating Station P.O. Box 289 Wadsworth, Texas 77483

April 30, 2008  
NOC-AE-08002283  
10CFR50.71(e)  
STI: 32284244

U. S. Nuclear Regulatory Commission  
Attention: Document Control Desk  
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South Texas Project  
Units 1 and 2  
Docket Nos. STN 50-498, STN 50-499  
Updated Final Safety Analysis Report Revision 14

Pursuant to 10CFR50.71(e), STP Nuclear Operating Company submits Revision 14 to the South Texas Project Updated Final Safety Analysis Report (UFSAR).


Attachment 1 includes a summary of changes in Revision 14 that were made under the provisions of 10CFR50.59 or in accordance with the guidance of NEI 98-03 and NEI 96-07. Attachment 2 consists of two CD-ROM's. CD-ROM one includes the UFSAR; CD-ROM two contains the UFSAR Figures and Controlled Drawings.

There are no commitments in this letter.

If you should have any questions on this submittal, please contact Marilyn Kistler at (361) 972-8385 or me at (361) 972-7867.

I declare under penalty of perjury that the foregoing is true and correct.

Executed on 4/30/08

  
David W. Rencurrel  
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MK

Attachment 1: Summary of Changes Updated Final Safety Analysis Report, Revision 14  
Attachment 2: Updated Final Safety Analysis Report, Revision 14

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Note: Above copies distributed without attachment 2

## Summary of Changes

### Updated Final Safety Analysis Report, Revision 14

#### Chapter 1, "Introduction and General Description of Plant"

1. Updated information to reflect the transfer of ownership from Texas Genco, LP to South Texas LP and corrected the title for RCA acronym (CN-2864) [1.1.1, Table 1.1-1, 1.4.1, 1.4.2] {NEI 98-03}
2. Incorporated changes as a result of eliminating the containment hydrogen recombiners from the design basis. (CN-2867) [1.2.2.3, 1.2.2.3.5, 1.2.2.12.5.7]
3. Incorporated changes resulting from a modification to the STP Switchyard and transmission lines due to the addition of CenterPoint Hillje substation and the addition of CPS Energy's Elm Creek substation. (CN-2846) [1.2.2.7.3]
4. Updated information to reflect removal of the Reactor Cavity Filtration System in Unit 1. (CN-2860) [1.2.2.11.1.4]

#### Chapter 2, "Site Characteristics"

1. Revised the delivery route for hydrogen delivery trucks. (CN-2850) [2.2.2.7]
2. Incorporated information concerning the backup meteorological system and added clarifying information to UFSAR tables. (CN-2827) [2.3.3, Table 2.3-23, Table 2.3-24]

#### Chapter 3, "Design of Structures, Components, Equipment, and Systems"

1. Incorporated changes as a result of eliminating the containment hydrogen recombiners from the design basis. (CN-2867) [3.1.2.4.12.1, 3.1.2.4.14.1, 3.2.A.2.2, Table 3.2.A-1, Table 3.2.B-2, Table 3.5-1, Table 3.6.1-1, Table 3.9-10, Table 3.10N-1, 3.11.5.1, Table 3.12-1]
2. Revised to reflect removal of the Reactor Cavity Filtration System in Unit 1. (CN-2860) [Table 3.2.B-1, Table 3.2.B-2]
3. Removed extraneous material concerning the Low Pressure Turbines. (CN-2821) [References 3.5-38, removed Figures 3.5-1 and 3.5-2] {NEI 98-03}
4. Removed excessive detail to improve focus on the analytical information that is relevant and useful. (CN-2822) [3.6.A.2, deleted Table 3.6.A-2A, removed Figure 3.6.A-1A] {NEI 98-03}
5. Revised wording that refers to the 10 CFR 50.49 submittal with wording that reflects the past tense and added the current reference to maintenance of "EQ" documents in

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accordance with plant procedures. (CN-2861) [3.11.1, 3.11.3, 3.11N-1 and 3.11N-3]

6. Incorporated information regarding battery maintenance and testing in accordance with approved Technical Specification amendments (CN-2873) [Table 3.12-1, and notes to Table 3.12-1]
7. Revised sections to indicate the removal of the Containment Atmosphere Radiation Monitor. (CN-2883) [Table 3.12-1 and notes in Table 3.12-1] {NEI 98-03}

#### Chapter 4, "Reactor"

1. Corrected typographical errors. (CN-2889) [4.3.2.1] {NEI 98-03}
2. Revised to reflect items to consider during post-irradiation fuel inspections. (CN-2839) [4.2.4.5]

#### Chapter 5, "Reactor Coolant System and Connected Systems"

1. Revised sections to indicate the removal of the Containment Atmosphere Radiation Monitor. (CN-2883) [5.2.5, 5.2.5.2.3, 5.2.5.4.3, 5.2.5.6.3, 5.2.5.7]
2. Removed valve packing configuration and valve packing leak off line information. (CN-2842) [5.4.7.2.2] {NEI 98-03}
3. Clarified information concerning the Auxiliary Feedwater Storage Tank. (CN-2886) [Table 5.4.A-1] {NEI 98-03}

#### Chapter 6, "Engineered Safety Features"

1. Incorporated changes as a result of eliminating the containment hydrogen recombiners from the design basis. (CN-2687) [6.1.1.1, 6.1.1.2, Table 6.1.4 Notes, 6.2.1, 6.2.5, 6.2.5.1, 6.2.5.2, 6.2.5.2.1, 6.2.5.2.3, 6.2.5.2.4, 6.2.5.2.5, 6.2.5.3.1, 6.2.5.4, 6.2.5.5, 6.2.5.6, 6.2.5.7, Table 6.2.5-1, Table 6.2.5-2, Table 6.2.5-3, Table 6.2.5-4, Table 6.2.5-7, Table 6.2.5-8, Figure 6.2.5-1, Figure 6.2.5-2, Figure 6.2.5-3, Figure 6.2.5-5, Figure 6.2.5-7, 6.5.3.1]
2. Revised to incorporate the results of hot full-power feedwater temperature of 448°F used in subcompartment feedwater line break analysis. (CN-2865) [6.2.1.2.3.1, 6.2.1.2.3.3, 6.2.1.4.7, Table 6.2.1.2-1, Table 6.2.1.2-5B, Table 6.2.1.2-6A, Table 6.2.1.2-7C, Table 6.2.1.2-7D, Figure 6.2.1.2-20D, and Figure 6.2.1.2-21B Sheets 1 through 11]

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3. Incorporated information to reflect the installation of new emergency sump strainers. (CN-2819) [6.2.2.2.2, 6.2.2.2.3 and Figure 6.2.4-2]
4. Added clarification to as-built field condition of flanges. (CN-2874) [6.2.4.2.1]
5. Removed information related to Containment Penetrations M-59 and M-60. (CN-2849) [Table 6.2.4-1] {NEI 98-03}
6. Removed valve packing configuration and valve packing leakoff line information. (CN-2842) [6.3.2.2] {NEI 98-03}
7. Revised to reflect the current accident analyses assumptions for Control Room inleakage. (CN-2847) [6.4.4.1, Table 6.4-2]

#### Chapter 7, "Instrumentation and Controls"

1. Removed the partial stroke description for the Feedwater Isolation valves. (CN-2868) [7.1.2.5] {NEI 98-03}
2. Incorporated changes as a result of eliminating the containment hydrogen recombiners from the design basis. (CN-2867) [ 7.1.2.6, 7.1.2.7, Table 7.1-1, Figures 7.1-1 (Sheets 1 through 6) , 7.2.1.2.5, 7.3, 7.3.1.1, 7.3.1.1.5.6.3, 7.5-2 Reference, Table 7.5-1, Notes to Table 7.5-1, 7.6.5.1, II.B.2, II.E.4.1,II.F.1, Table 7B.5-1, and Table 7B.6-1]
3. Revised the test frequency of the containment spray SSPS input relays to 18-month intervals. (CN-2845) [7.3.1.2.2.5.2]
4. Added a note to identify the AFW Reg Valve status in the faulted loop SG is not required because accident analyses do not credit the operation of the valve. (CN-2823) [Table 7.5-1, Notes to table 7.5-1].
5. Revised the description of Core Exit Thermocouple system as having nominally 50 CETs. (CN-2844) [II.F.2 and Figure 7AII.F.2-1]

#### Chapter 8, "Electric Power"

1. Incorporated changes resulting from a modification to the STP Switchyard and transmission lines due to the addition of CenterPoint Hillje substation and the addition of CPS Energy's Elm Creek substation. [CN-2846] [8.1.1, 8.1.2, 8.1.3, 8.1.4, Figure 8.1-1, 8.2.1.1, 8.2.1.2, 8.2.2.1, Table 8.2-1, Figure 8.2-1, Figure 8.2-3, Figure 8.2-3A sheets 1 and 2, Figure 8.2-4, Figure 8.2-6, Figure 8.2-7, Figure 8.2-8, Figure 8.2-9, Figure 8.2-9A ]

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2. Incorporated information on the use of new minimum switchyard voltage. (CN-2862) [8.1.2, 8.1.4, Figure 8.1-1, 8.3.1.1.2, Table 8.3-1, and Table 8.3-2]
3. Incorporated changes as a result of eliminating the containment hydrogen recombiners from the design basis. (CN-2867) [Table 8.1-1, Table 8.3-3, Table 8.3-14]
4. Removed excessive information regarding the Class 1E 4.0kV motors. (CN-2869) [8.3.1.1.4.2] {NEI 98-03}
5. Revised position on Regulatory Guide 1.108 in reference to Diesel Generator load test. (CN-2855) [8.3.1.2.10] {NEI 98-03}
6. Incorporated information regarding battery maintenance and testing. (CN-2873) [8.3.2.1.2, 8.3.2.1.4, 8.3.2.2.5]
7. Revised to clarify that the Essential Chiller can be added to the load on the Standby Diesel generator between 65 seconds and 270 seconds. (CN-2870) [Table 8.3-3]
8. Updated information to reflect removal of the reactor cavity filtration system in Unit 1. (CN-2860) [Table 8.3-14]

### Chapter 9, "Auxiliary Systems"

1. Updated information to reflect removal of the reactor cavity filtration system in Unit 1. (CN-2860) [9.1.3, Table 9.1-2]
2. Revised the description of refueling shutdown and added an editorial correction. (CN-2885) (CN-2889) [9.1.4.2.2.1]
3. Corrected typographical errors. (CN-2889) [9.2.1.2.2.2] {NEI 98-03}
4. Added information regarding credited operator actions for ECW backwash line. (CN-2834) [9.2.1.2.3] {NEI 98-03}
5. Updated and simplified references to specific regulatory agencies. (CN-2877) [9.2.4] {NEI 98-03}
6. Added a note stating that ECP makeup from pumps on CWIS is not available. (CN-2884) [9.2.5.2] {NEI 98-03}
7. Revised to be consistent with a previous change to section 9.3.4.1.2.2 regarding Reactor coolant purification. (CN-2879) [9.3.4.1.3.2] {NEI 98-03}

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8. Revised to add design-basis information regarding credited operator actions for Essential Chilled Water System and EAB HVAC system. (CN-2833) [9.4.1.3]
9. Incorporated changes as a result of eliminating the containment hydrogen recombiners from the design basis. (CN-2867) [9.4.5.1.2, 9.4.5.2.7, Table 9.4-1]
10. Corrected information concerning addition of a HEPA filter to the RCB Supplemental purge exhaust. (CN-2825) [9.4.5.2.7, Table 9.4-2.5]
11. Revised normal Parameter Temperatures to reflect a normal parameter temperature range of 70°F to 77°F. (CN-2824) [Table 9.4-1]
12. Stated the power supply for the positive displacement charging pump room cooler is provided by the TSC diesel. (CN-2878) [Table 9.4-1]
13. Corrected information concerning the available back-up power supply and filters supplied in the Radwaste Counting Room Cooler. (CN-2836) [Table 9.4-1, Table 9.4-2.3, Table 9.4-4] {NEI 98-03}
14. Revised to state that the Quality-Related Fire Hydrants are provided a hose house. (CN-2888) [9.5.1.2.1] {NEI 98-03}

#### Chapter 10, "Steam and Power Conversion System"

1. Deleted extraneous material concerning the Low-Pressure turbines. (CN-2821) [10.1, 10.2.2.1, 10.2.3] {NEI 98-03}
2. Clarified information concerning the Auxiliary Feedwater Storage Tank. (CN-2886) [10A.2.2, Table 10.1-1] {NEI 98-03}
3. Removed extraneous information concerning feedwater heaters. (CN-2826) [Table 10.1-1] {NEI 98-03}
4. Revised to reflect the results of revised failure mode analysis for the AFW system electrical components. (CN-2823) [10.4.9.3.1, Table 10.4-3 and Table 10.4-3A]

#### Chapter 11, "Radioactive Waste Management"

1. Revised to indicate the removal of the Containment Atmosphere Radiation Monitor. (CN-2883) [11.5.2.3.2] {NEI 98-03}

#### Chapter 12, "Radiation Protection"

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1. Revised section to reflect current organization. (CN-2859) [12.1.1.1]

#### Chapter 13, "Conduct of Operations"

1. Updated information to reflect the transfer of ownership from Texas Genco, LP to South Texas LP. (CN-2864) [13.0] {NEI 98-03}
2. Revised section to reflect current organization. (CN-2859) [Figure 13.1-1]
3. Editorial change to remove information no longer valid. (CN-2889) [13.4] {NEI 98-03}

#### Chapter 14, "Initial Test Program"

#### Chapter 15, "Accident Analyses"

1. Removed text associated with previously removed Figures. Editorial changes to improve reader understanding. (CN-2882) [15.4.2.2] {NEI 98-03}
2. Corrected to show that the limiting case is with manual rod control not automatic rod control. Added clarification to differentiate the cases that were performed with automatic and manual rod control. (CN-2881) [15.5.2.2 and Table 15.5-1] {NEI 98-03}
3. Incorporated revised analysis of Steam Generator Tube Rupture event. (CN-2880) [15.6.3.4] {NEI 98-03}
4. Incorporated new PCT values for Large Break LOCA and editorial corrections. (CN-2876) [Table 15.6-7, Table 15.6-8, Table 15.6-8A, Table 15.6-9 and Table 15.6-9A] {NEI 98-03}

#### Chapter 16, "Technical Specifications"

#### Response to NRC Questions

#### Chapter 4

1. Deleted Q&R 231.6, information is contained in sections 4.2.4.5 and 11.5.2.4.8. (CN-2839)



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#### Chapter 5

1. Revised 440.30N response to state the information is incorporated in Table 5.4A-1.  
(CN-2886)

#### Chapter 6

1. Revised the response to Q&R 480.28N to reflect installation of new emergency sumps.  
(CN-2819)

#### Chapter 8

1. Revised the response to Q&R 430.37N to be consistent with Technical Specification amendments 180/167 for battery maintenance and testing. (CN-2873)

( ) - Change Notice number

[ ] - UFSAR section(s) affected if not already identified

{ } - NEI 98-03 Criteria document used for change