



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

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10CFR50.59
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U. S. Nuclear Regulatory Commission
Attention: Document Control Desk
Washington, DC 20555-0001

South Texas Project
Units 1 and 2
Docket Nos. STN 50-498, STN- 50-499
10CFR50.59 Summary Report

Pursuant to the requirements of 10CFR50.59, the attached report contains a brief description and summary of the safety evaluations of changes, tests, and experiments conducted at the South Texas Project.

If there are any questions regarding this summary report, please contact Ms. M. K. Johnson at (361) 972-8385 or me at (361) 972-7206.

A handwritten signature in black ink that reads "M. A. McBurnett".

M. A. McBurnett
Director, Quality & Licensing

Attachment: Brief Description of Changes, Tests, and Experiments

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Attachment**Brief Description of Changes, Tests, and Experiments****Unreviewed Safety Question Evaluation 96-0051**

Description: The Updated Final Safety Analysis Report will be updated to reflect the addition of jib cranes in each unit.

Safety Evaluation Summary: Jib crane operation will only be allowed during plant modes 5, 6 and no-mode due to jet impingement and pipe whip analysis. The addition of the jib crane does not increase the probability of occurrence of an accident previously evaluated in the Safety Analysis Report.

Unreviewed Safety Question Evaluation 96-0055

Description: Deletes the requirement for on-line testing of the Residual Heat Removal pressure interlock.

Safety Evaluation Summary: This change does not affect the required testing interval or method. Therefore, no Unreviewed Safety Question exists.

Unreviewed Safety Question Evaluation 96-0063

Description: Removal of Auxiliary Boiler #12 and its associated components, Auxiliary Boiler Burner Pump #2, Auxiliary Boiler Condensate Pump #2 and Auxiliary Boiler Feedwater Pump #2 and their associated components.

Safety Evaluation Summary: The equipment being deleted is non-operational, is not safety-related, has no safety function and is not important to safety. Therefore its removal will not create the possibility of an accident not previously evaluated in the Safety Analysis Report.

Unreviewed Safety Question Evaluation 97-0024

Description: Evaluates performing the battery service test at the manufacturer's facility prior to delivery instead of onsite after installation.

Safety Evaluation Summary: The preoperational test will verify the batteries' ability to perform their design safety function.

Unreviewed Safety Question Evaluation 97-0030

Description: Allow the main feedwater inlet to the Steam Generators to be operated in a range between 440°F and 420°F during normal full power operation to compensate for degradation in Steam Generator efficiency.

Safety Evaluation Summary: The safety evaluation with reduced feedwater temperatures was previously approved by the NRC. No Unreviewed Safety Question exists.

Unreviewed Safety Question Evaluation 98-13786-2

Description: Revise OQAP to reflect organization changes.

Safety Evaluation Summary: These changes to the OQAP do not involve an unreviewed safety question.

Unreviewed Safety Question Evaluation 99-7464-8

Description: Remove the ten seismic monitoring instruments and replace them with one seismic monitoring instrument.

Safety Evaluation Summary: The primary function of the seismic monitoring instrumentation is to provide station operators timely acceleration data following an earthquake. The data is compared with plant design parameters. It is expected that a decision can be made within approximately 4 hours to either continue operation or shut the plant down. The single seismic monitoring instrument meets these requirements.

Unreviewed Safety Question Evaluation 99-8241-6

Description: Revises the Updated Final Safety Analysis Report to reflect changing the AMSAC actuation signal from feedwater flow to steam generator water level.

Safety Evaluation Summary: The change does not result in an unreviewed safety question.

Unreviewed Safety Question Evaluation 99-8273-11

Description: New knife switches will be installed in series for each train of the Residual Heat Removal heat exchanger control valve. These switches will be used to assure circuit is open (no power) in Modes 1,2,and 3.

Safety Evaluation Summary: The margin of safety is not reduced or degraded by the new switches. The function of the Residual Heat Removal System remains unchanged, therefore, no unreviewed safety question exists.

Unreviewed Safety Question Evaluation: 99-8572-11

Description: The air injection feature of the In-Mast Sipping Fail Fuel detection System during refueling with a fuel assembly in the refueling machine mast is evaluated for thermal hydraulic impact.

Safety Evaluation Summary: The evaluation shows the use of the in-mast sipping system air injection feature has no impact on the thermal analysis of the fuel cladding.

Unreviewed Safety Question Evaluation: 99-9098-3

Description: This change describes actions needed to maintain building temperature when outside air is below the design basis temperature of 29°F. The UFSAR will be updated to show that operator action is required when outside temperature falls to these extremely low values.

Safety Evaluation Summary: The subject of this review does not involve a physical change to the facility. The UFSAR will be modified to reflect procedural changes.

Unreviewed Safety Question Evaluation 99-9656-3

Description: A change to the UFSAR to reflect the method for the automatic steam generator level control test. The controller will be in automatic when the setpoint is changed, and level is changed only above normal program level or below normal program level rather than both above and below normal program level.

Safety Evaluation Summary: The change to the UFSAR reflects the actual method for testing the level control system and does not represent an Unreviewed Safety Question.

Unreviewed Safety Question Evaluation 99-12670-4

Description: Clarification to the Technical Specification Bases concerning leakage detection methods. The clarification is consistent with Regulatory Guide 1.45 and supported by NUREG 1431.

Safety Evaluation Summary: The change does not result in an Unreviewed Safety Question.

Unreviewed Safety Question Evaluation 99-15212-9

Description: Reload Safety Evaluation for Unit 2 Cycle 9, Modes 1, 2, 3, 4 and 5.

Safety Evaluation Summary: Operation of Unit 2 Cycle 9 to a total burn-up (including coastdown) from 558 effective full power days does not involve an unreviewed safety question.

Unreviewed Safety Question Evaluation 99-15212-67

Description: Determine impact of incomplete rod insertion on the safety analysis and if this condition involves an unreviewed safety question for Unit 2 Cycle 9.

Safety Evaluation Summary: The Safety Analysis provides bounding results with respect to the Reload Safety Analysis Checklist. Failure of the rod cluster control assemblies to fully insert to the rod bottom position does not involve an unreviewed safety question.

Unreviewed Safety Question Evaluation 00-1187-1

Description: Change the frequency for inspecting fire hose stations and fire protection valve positions in areas important to safe shutdown from monthly to once every 6 months. Add fire hydrants to Appendix R fire protection test program to protect the Auxiliary Feedwater Storage Tank in each unit.

Safety Evaluation Summary: Changing the frequency for inspecting fire hose stations and fire protection valves positions in power block areas and adding additional equipment to existing tests important to safe shutdown will not adversely affect the ability to achieve and maintain safe shutdown in the event of a fire, therefore no Unreviewed Safety Question exists.

Unreviewed Safety Question Evaluation 00-1417-1

Description: Evaluation to reassess administrative controls and manual actions to restore temporary breaches in the Fuel Handling Building HVAC ventilation envelope and the Fuel Handling Building exhaust air system as a means to maintain the system operable.

Safety Evaluation Summary: The evaluation shows the Fuel Handling Building exhaust air system can remain operable with the system and/or building ventilation boundary breached because administrative controls are imposed which ensure the manual actions restore the integrity of the exhaust air system.

Unreviewed Safety Question Evaluation 00-1966-10

Description: Operations Quality Assurance Plan change to allow temporary storage of records.

Safety Evaluation Summary: This change does not introduce any adverse safety impact.

Unreviewed Safety Question Evaluation 00-3225-4

Description: Control of heavy loads procedure revision to define "safety factor" consistent with NUREG 0612.

Safety Evaluation Summary: Revisions are in accordance with the evaluation guidelines presented in the previously approved submittal to the NRC concerning heavy loads. The proposed changes to the procedure maintain restrictions to protect fuel and safe shutdown equipment from a load drop accident. The changes are acceptable. No Unreviewed Safety Question exists.

Unreviewed Safety Question Evaluation 00-6911-2

Description: Clarification of commitment to Regulatory Guide 1.50. The relaxes the previous exception to position 2 (maintaining preheat) for field erection welding to allow cooling to ambient without a 2 hr/inch soak period.

Safety Evaluation Summary: Omission of the intermediate soak for field erection welding is technically acceptable due to measures taken to ensure slow cooling, and the relatively thin thickness of the welds. This is consistent with the evaluation of this issue by Westinghouse and is consistent with the exception taken by Westinghouse for Reactor Coolant Pressure Boundary Materials, therefore, no Unreviewed Safety Question exists.

Unreviewed Safety Question Evaluation 00-8096-2

Safety Evaluation Summary: Revise UFSAR to allow coordination of pre-hurricane shutdown with the Independent System Operator.

Safety Evaluation Summary: Permitting coordination of the shutdown with the system dispatcher and the Independent System Operator helps assure grid stability during the shutdown and consequently helps reduce the potential for a loss off-offsite power. This change has no bearing on the potential for a hurricane and may reduce the potential for a loss of off-site power during a hurricane. It does not affect the operation of plant systems or plant configurations.

Unreviewed Safety Question Evaluation 00-10065-16

Description: Unit return to service tests have different test methods than similar tests described in the UFSAR Chapter 14.

Safety Evaluation Summary: The changes in the test method for unit return to service tests are within the design of the plant and are bounded by existing UFSAR Chapter 15 safety analysis. Therefore they do not represent an Unreviewed Safety Question.

Unreviewed Safety Question Evaluation 00-10707-2

Description: Revise Technical Specification Bases SR 4.8.1.1.2.e.11 to add the following words, "The sequencer is considered a support system for the associated diesel generator and those components actuated by Mode 1 signal."

Safety Evaluation Summary: Adding the clarifying statement to the Technical Specification Bases does not change the function of the systems or components listed, nor does it affect any parameters of the accident analysis or design bases accident. There is no change to the margin of safety as defined in the Technical Specification and therefore does not represent an Unreviewed Safety Question.

Unreviewed Safety Question Evaluation 00-13351-2

Description: Clarify Technical Specification Bases sections 3.8.1.3, 3.8.3.2, 3.8.3.3 to establish that the design basis for shutdown conditions does not include an accident with concurrent loss of off-site power and single failure.

Safety Evaluation Summary: The change to the Technical Specifications Bases is a clarification that describes what has been the design basis for Modes 5 and 6. Current design basis does not include loss of off-site power concurrent with a single failure. This is an administrative change that clarifies Technical Specification requirements for operability, but imposes no new requirement or restriction.

Unreviewed Safety Question Evaluation 00-13574-1

Description: Replace the Fire Protection Program procedure requirement to “issue a hot work permit” for work involving breaching systems which may contain flammable or combustible gases with “include appropriate precautions in work instructions.”

Safety Evaluation Summary: Changing administrative controls for breaching systems that may contain flammable or combustible gases will not adversely affect the ability to achieve and maintain cold shutdown in the case of a fire.

Unreviewed Safety Question Evaluation 00-13604-6

Description: Temporary modification to jumper out a contact used in the Solid State Protection System Train C master relay test. The contact is used for continuity testing purposes.

Safety Evaluation Summary: This temporary modification allows the Solid State Protection System to perform it’s design function and therefore does not have any affect on the safety of the plant.

Unreviewed Safety Question Evaluation 00-17970-2

Description: Operations Quality Assurance Plan change to reflect change in responsibility for the Nuclear Safety Review Board.

Safety Evaluation Summary: This change does not introduce any adverse safety impact.

Unreviewed Safety Question Evaluation 01-1144-4

Description: Post-maintenance test of pre-heater bypass valve solenoid. This test will stroke the pre-heater bypass valve.

Safety Evaluation Summary: The test does not adversely impact the design basis or result in a significant plant transient. Therefore, the test does is a not an Unreviewed Safety Question.

Unreviewed Safety Question Evaluation 01-2292-2

Description: Operations Quality Assurance Plan change to reflect restructuring of the Quality Organization, and the Comprehensive Risk Management Program Expert Panel charter and composition.

Safety Evaluation Summary: This change does not introduce any adverse safety impact.

Unreviewed Safety Question Evaluation 01-2306-2

Description: The UFSAR is being revised to clearly place control rod withdrawal and lockout (for rapid refueling) ahead of the initiation of Reactor Coolant System coolant draining for reactor disassembly.

Safety Evaluation Summary: There is no Unreviewed Safety Question involved with the UFSAR change.

Unreviewed Safety Question Evaluation 01-3473-2

Description: Change in operability test frequency of the Turbine Overspeed Protection System turbine valves from every 31 days to quarterly for turbine missile probability impact.

Safety Evaluation Summary: Changing the turbine valve test frequency from every 31 days to quarterly maintains the results of the turbine missile analysis within the acceptance criteria which satisfies the regulatory requirements. The probability of turbine missile generation below 1.0E-04 events per year is maintained.

Unreviewed Safety Question Evaluation 01-3810-4

Description: While performing rapid refueling during 2RE08, Rod Cluster Control Assembly (RCCA) K-10 was withdrawn, but would not lock in its full-out position for rapid refueling. The RCCA K-10 is at least 263 steps, which is below the required RCCA step for full-out position.

Safety Evaluation Summary: There were no safety issues identified that prohibited the use of rapid refueling with RCCA K-10 in this condition. The evaluation found that an Unreviewed Safety Question does not exist.

Unreviewed Safety Question Evaluation 01-8768-1

Description: One-time deferral of a surveillance test for molded-case circuit breaker until October 2001.

Safety Evaluation Summary: Postponing the performance of the surveillance test for five months does not affect the safety function of the breaker.