

REGION IV  
DIVISION OF REACTOR PROJECTS  
QUARTERLY PLANT PERFORMANCE REVIEW

(Revised 10/08/93)

SOUTH TEXAS PROJECT  
ELECTRIC GENERATING STATION

DATE: October 19, 1993

QUARTER: Third Quarter (July-September 1993)

SALP PERIOD: August 2, 1992 thru July 2, 1994

PERFORMANCE SUMMARY ATTACHMENTS:

Attachment A - Plant Ops Performance Summaries in Previous QPPR's  
Attachment B - Rad Con Performance Summaries in Previous QPPR's  
Attachment C - M/S Performance Summaries in Previous QPPR's  
Attachment D - EP Performance Summaries in Previous QPPR's  
Attachment E - Security Performance Summaries in Previous QPPR's  
Attachment F - E/TS Performance Summaries in Previous QPPR's  
Attachment G - SA/QV Performance Summaries in Previous QPPR's  
South Texas Project QPPR Input from NRR  
Performance Indicators  
QPPR Executive Summary  
MIP Form #2  
IFS Form #1

1. PERFORMANCE INDICATORS

A. PI SUMMARY (DATA ATTACHED-1st QUARTER 1993 LATEST DATA AVAILABLE)

Unit 1

0 SCRAMs  
0 Safety System Actuations  
1 Significant Event  
3 Safety System Failures

Unit 2

2 SCRAMs  
0 Safety System Actuations  
1 Significant Event  
2 Safety System Failures

B. INSIGHTS FROM PIS

Unit 1 PIs trend with the peer group. Unit 2 SCRAMs, Safety System Actuations, and Significant Events are high when compared to the peer group. Both units have been in forced outages for the entire quarter.

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2. ENFORCEMENT AND REGULATORY ISSUES

A. ESCALATED ENFORCEMENT

None



B. SUMMARY OF NON-ESCALATED ENFORCEMENT SINCE LAST QPPR

Unit 1

Functional Area	Level IV	Level V	NCV's	Dev
Plant Operations	0	0	0	0
Maintenance	0	0	0	0
Engineering	0	0	0	0
Plant Support	2	0	0	0
Total	2	0	0	0

Unit 2

Functional Area	Level IV	Level V	NCV's	Dev
Plant Operations	1	0	0	0
Maintenance	1	0	0	0
Engineering	0	0	0	0
Plant Support	3	0	0	0
Total	5	0	0	0

C. INSIGHTS FROM ENFORCEMENT

The licensee continued to demonstrate weak performance in the areas of plant operations and plant support.

D. LER SUMMARY

3 LERs were issued by the licensee for Unit 1 since the last QPPR. 3 LERs were issued by the licensee for Unit 2 the last QPPR.

E. OTHER REGULATORY ISSUES

The STP Restart Panel has been active in identifying the inspection activities that will be necessary to be performed prior to either unit's restart. A Headquarters lead ORAT Inspection is presently scheduled for November and December, 1993.

## PLANT OPERATIONS

### (1) Performance Summary

#### IR 93-15 Tapia, Evans

Areas Inspected: Routine, unannounced inspection of plant status, operational safety verification, engineered safety features system walkdowns (Units 1 and 2), maintenance and surveillance observations, refueling activities (Unit 2), followup on previously identified violations and open items, and licensee event report (LER) followup.

#### Strengths:

Three systems were walked down during the inspection period. All valves, power supplies, control switches, and dampers were found in the correct positions to support system and plant operation. The correct alignment of the systems indicated that the plant operations department was maintaining good configuration management control of the safety-related systems, even with both units shut down for maintenance.

#### Weaknesses:

Approximately 500 gallons of boric acid was spilled when a pump was started with a drain valve open after an equipment clearance order was partially released. The spill was the result of a human performance error during the review of the boundaries needed to allow for the pump run.

#### IR 93-22 Satorius

Areas Inspected: A special inspection was conducted to determine the circumstances surrounding the loss of spent fuel pool (SFP) cooling on June 13-14, 1993.

#### Strengths:

None

#### Weaknesses:

Two examples of operators failing to follow station procedures were identified:

- ° An oncoming operations shift failed to conduct an adequate review of plant status prior to assuming the shift.
- ° A reactor plant operator failed to note that the noise level in the area of the SFP pumps and heat exchangers was significantly reduced following the isolation of component cooling water to the SFP heat exchanger.

These two examples of failing to follow procedures resulted in the 13-hour duration of a loss of SFP cooling event.

The failure of both the off-going and oncoming shifts to identify the loss of SFP cooling during routine control board walkdowns were considered to be significant operator performance weaknesses.

#### IR 93-24 Loveless, Satorius, Evans, Keeton, Garcia

Areas Inspected: Routine, unannounced inspection of plant status, onsite followup of events, operational safety verification, maintenance and surveillance observations, review of previously identified violations, unresolved, and open items.

Strengths:

In general, licensed operators conducted plant evolutions in a professional manner and plant mode changes were controlled by approved plant procedures.

The reactor plant operator who identified the loss of inventory in the spent fuel pool performed in an excellent manner.

Plant operators continued to monitor spent fuel pool level as efforts were initiated to locate the source of the inventory loss. The reactor plant operators made a reasonable effort to identify and isolate the source of the spent fuel pool inventory loss.

Weaknesses:

The inspectors noted that the automatic start of Essential Chiller 12C because of oil foaming was caused by a previously identified condition that had been corrected on the Unit 2 chillers.

(2) Attachment A & G - Performance Summaries in Previous QPPR's

ENFORCEMENT SINCE LAST QPPR

Unit 1

None

Unit 2

93-022      07/23/93      IV      Two examples of operators failing to follow procedures during the loss of spent fuel pool cooling event.

LERs SINCE LAST QPPR

Unit 1

None

Unit 2

93-012      06-13-93      Loss of Spent Fuel Pool Cooling for Approximately 13 Hours.

(3) DRP Recommendation

(4) Recommended MIP Changes

## MAINTENANCE

### (1) Performance Summary

#### IR 93-15 Tapia, Evans

Areas Inspected: Routine, unannounced inspection of plant status, operational safety verification, engineered safety features system walkdowns (Units 1 and 2), maintenance and surveillance observations, refueling activities (Unit 2), followup on previously identified violations and open items, and licensee event report (LER) followup.

#### Strengths:

None

#### Weaknesses:

A continuing negative trend in maintenance implementation was observed. The failure to correctly reinstall a component and add the correct amount of oil to a motor ultimately resulted in the replacement of the pump motor. This was a Technical Specification violation. In response to this and similar events, the licensee implemented a "Human Performance Improvement Day."

#### IR 93-19 Ellershaw

Areas Inspected: Reactive, announced onsite inspection of events pertaining to the licensee's notification regarding a normally closed main feedwater isolation bypass valve being discovered partially open, and a notification of a failure to maintain the equipment qualification of a residual heat removal motor-operated valve.

#### Strengths:

None

#### Weaknesses:

An unresolved item was identified when an instrumentation and controls technician attempted to perform an independent verification activity that was not specified in the work request.

The lack of procedural requirements during maintenance to document (1) retorquing of stem clamp bolts subsequent to any activity that required their loosening, and (2) occurrences in which local valve position indicator readings were considered to be different from remote valve position indicator readings, were considered to be programmatic weaknesses.

The licensee deactivated preventive maintenance activities on the safety-related main feedwater isolation bypass valves.

Poorly written descriptions of work performance were identified as a generic weakness in the work control process.

#### IR 93-20 Tapia, Evans

Areas Inspected: Routine, unannounced inspection of plant status, onsite followup of events, operational safety verification, monthly maintenance observations, refueling activities (Unit 2), followup on previously identified violations, unresolved and open items, and licensee event reports (LERs).

#### Strengths:

Three corrective maintenance activities were inspected, including component cooling water (CCW) pump seal replacement, residual heat removal mechanical seal replacement, and extended range neutron flux monitor troubleshooting and repair. All three work activities, especially the extended range monitor

repair, were parts and labor intensive jobs. In all three examples, the components were correctly repaired and returned to service.

Weaknesses:

An Unusual Event was declared in Unit 2 when all three emergency diesel generators were found to be inoperable. Two diesel generators were out of service for maintenance while the third was declared inoperable because of a damaged drive coupling in the associated essential cooling water system. The event was caused by a combination of inadequate preventive maintenance work instructions, inappropriate cancellation of the environmental qualification program preventive maintenance work instructions, and a lack of vendor supplied information.

IR 93-24 Loveless, Satorius, Evans, Keeton, Garcia

Areas Inspected: Routine, unannounced inspection of plant status, onsite followup of events, operational safety verification, maintenance and surveillance observations, review of previously identified violations, unresolved, and open items.

Strengths:

Postmaintenance testing of the Unit 1 turbine-driven auxiliary feedwater pump was performed in accordance with the special test procedure. Personnel involved were knowledgeable of the system, anticipated parameter changes, and knew the consequences of their actions.

Craftsmen stopped work during the repair of an essential cooling water system piping weld to ensure that problems were corrected and that a quality repair could be performed.

Weaknesses:

The inspectors expressed concern with the quality of maintenance performed on Standby Diesel Generator 23 during the 5-year inspection. Although the licensee responded to each individual equipment failure, the number of problems identified raised the concerns. Additional inspection of this area will be performed during the next inspection period.

IR 93-27 Ellershaw

Areas Inspected: Routine, announced inspection to determine the effectiveness of the licensee's program for assuring the reliability and operability of safety-related check valves.

Strengths:

None

Weaknesses:

The licensee utilized effective corrective maintenance procedures in response to check valve failures.

The licensee had not developed preventive maintenance procedures for check valves. Instead, the licensee relied on the initiation of service requests to perform disassembly and inspection of check valves.

(2) Attachment C & G - Performance Summaries in Previous QPPR's

ENFORCEMENT SINCE LAST QPPR

Unit 1

None

Unit 2

93-015      07-06-93      IV      Failure of maintenance personnel to follow procedures when adding oil to a HHSI pump.

LERs SINCE LAST QPPR

Unit 1

93-018      07-07-93      Remote position indication verification tests on SI accumulator valves not performed in accordance with the requirements of TS 4.0.5.

93-019      07-09-93      Failure to meet TS surveillance testing requirements of the MSIV.

Unit 2

93-013      07-19-93      Inadvertent ESF actuation due to a CCW pump start during maintenance.

93-014      08-16-93      Failure to meet TS testing requirements of the containment H<sub>2</sub> Monitors

(3)      DRP Recommendation

(4)      Recommended MIP Changes

# ENGINEERING

## (1) Performance Summary

### IR 93-06 Runyan

Areas Inspected: Special, announced inspection of the implementation of the licensee's program to meet commitments to Generic Letter 89-10, "Safety-Related Motor-Operated Valve Testing and Surveillance," and followup.

#### Strengths:

- The licensee's motor-operated valve program was capable of satisfactorily demonstrating the operability of motor-operated valves subject to Generic Letter 89-10 and generally fulfilled the licensee's commitments in this area.
- The licensee's response to the Limitorque 10 CFR Part 21 report on ac motor degradation in a harsh environment was comprehensive and very prompt.
- The licensee's diagnostic testing capabilities were advanced and included the use of stem-mounted thrust and torque strain gages.
- For the motor-operated valves reviewed during this inspection, valve factors were in the range of 0.23 to 0.30 in the opening direction and 0.46 to 0.64 in the closing direction. Observed stem friction coefficients were between 0.074 and 0.190.
- The licensee intended to utilize both dynamic and static testing for the purpose of periodically verifying motor-operated valve capability.
- A revised motor-operated valve trending program was scheduled for full implementation by September 1993.

#### Weaknesses:

- The licensee had not established a margin to account for stem lubrication degradation.
- Stem factors were calculated at control switch trip rather than the points of flow cutoff or seat contact.
- Based on preliminary test results, the licensee's design basis assumptions for valve factor and stem friction coefficient were potentially nonconservative for some motor-operated valves.
- The licensee was not calculating valve factors for tests conducted at less than 80 percent of the maximum expected differential pressure.
- Acceptance criteria were found to be insufficient for the evaluation of torque measured during dynamic diagnostic test.
- A nonconservative error was identified in one of the licensee's evaluations of stem factor, but the valve in question had sufficient margin to account for the corrected evaluation.
- Thrust measurements were being extrapolated by a linear method that had not been validated by analytic means.
- The linear extrapolation of torque measurements had not been validated and was dependent on a potentially nonconservative assumption.
- For tests conducted at below 80 percent of the maximum expected differential pressure, thrust and torque measurements had not been extrapolated, raising the possibility that certain motor-operated valves with demonstrably marginal capability had not been identified.



A significant error was identified in the licensee's analysis of the opening differential pressure trace of Motor-Operated Valve A1SIMOV0008A.

Motor-Operated Valve B2RCMOV0001B (power-operated relief valve block valve) was underthrust at control switch trip and overthrust at total thrust. It had also been assigned a potentially nonconservative valve factor in the design basis calculations. The licensee was requested to provide status on the disposition of this motor-operated valve prior to Unit 2 startup. The concern related to the valve factor assumed in the design basis calculations also needs to be dispositioned prior to Unit 1 startup.

Motor-Operated Valve C1CVMOV8348, a 2-inch globe valve, exhibited an unusually high rate-of-loading effect and an unexpected, very small differential pressure effect.

Two dynamic tests were identified that showed the characteristics of static tests, apparently due to a failure to attain an appreciable percentage of the design-basis flow rate during the test.

The methodology used to zero diagnostic differential pressure traces was inconsistent and not well proceduralized.

The recent failure of an SB-1 actuator worm shaft clutch was attributed to an improper heat treatment and may have generic implications.

The depth of the licensee's analysis of pressure locking and thermal binding was not clear. This area will require additional evaluation by the licensee.

#### IR 93-19 Ellershaw

Areas Inspected: Reactive, announced onsite inspection of events pertaining to the licensee's notification regarding a normally closed main feedwater isolation bypass valve being discovered partially open, and a notification of a failure to maintain the equipment qualification of a residual heat removal motor-operated valve.

#### Strengths:

None

#### Weaknesses:

The licensee did not appear to have fully evaluated the cause for the incorrect location of the local valve position indicator prior to attempting to make corrections.

Licensee investigation determined that the main feedwater isolation bypass valve had not been partially open as originally reported; however, the historical positions of main feedwater isolation bypass valves could not be determined.

An unresolved item was identified with respect to the licensee failing to calibrate valve remote position indicators as required by the inservice test program.

An unresolved item was identified regarding the licensee's reclassification of the main feedwater isolation bypass valve positioners to a nonsafety-related status.

A result of the reclassification was the expiration of the environmental qualification life of the Unit 1 positioners.

An unresolved item was identified regarding the licensee's review of design documents and assumption that the safety-related solenoid valves for the main feedwater isolation bypass valves were normally deenergized. This possibly resulted in a failure to maintain the solenoid valves' environmental qualifications.

An unresolved item was identified regarding the licensee's failure to maintain the motor operator for the Unit 2 Residual Heat Removal B train suction valve in a configuration supported by test results.

A programmatic weakness was identified in that a requirement for the inspection of T-drains and grease reliefs was not specified to be performed during inspections of motor operators.

IR 93-20 Tapia, Evans

Areas Inspected: Routine, unannounced inspection of plant status, onsite followup of events, operational safety verification, monthly maintenance observations, refueling activities (Unit 2), followup on previously identified violations, unresolved and open items, and licensee event reports (LERs).

Strengths:

None

Weaknesses:

A high number of problems were encountered during the licensee's maintenance of their emergency diesel generators. The incidents included equipment failures, multiple EDG failures to start, discovery of missing components following maintenance, one design error, and one operator work-around. The NRC will continue to closely monitor the licensee's activities in this area.

IR 93-24 Loveless, Satorius, Evans, Keeton, Garcia

Areas Inspected: Routine, unannounced inspection of plant status, onsite followup of events, operational safety verification, maintenance and surveillance observations, review of previously identified violations, unresolved, and open items.

Strengths:

The licensee's specific review of the inadequate essential cooling water flows to the standby diesel generators was excellent.

Weaknesses:

Licensee personnel failed to verify the operability of other systems served by essential cooling water within a reasonable time following the discovery of an inadequate flow balance.

IR 93-27 Ellershaw

Areas Inspected: Routine, announced inspection to determine the effectiveness of the licensee's program for assuring the reliability and operability of safety-related check valves.

Strengths:

The check valve design application review was very comprehensive and included consideration of the relevant factors affecting check valve durability.

Industry information regarding check valve problems had been received and appropriately evaluated for impact.

The licensee had provided reasonable assurance of the operability and reliability of check valves in safety-related systems.

Weaknesses:

A formal check valve program document did not exist, but one was being developed.

There was no formal or documented coordination established between the check valve program coordinator and other groups whose activities could affect the check valve program.

The identity of check valve program valves was maintained in a data base that was not named, dated, or approved.

Errors pertaining to inspection frequencies existed between the Unit 1 and Unit 2 check valve data bases.

A check valve monitoring activity (i.e., non-intrusive examination methods) had been established, but not implemented.

Conservatism in engineering judgement and an apparent imprecision in input data may have resulted in an inaccurate determination of those check valves most vulnerable to structural deterioration.

The inspectors identified instances in which check valves failed local leak rate testing and the licensee apparently did not perform any root cause analysis.

Trending procedures, methodology, or criteria had not been established with respect to the check valve program.

(2) Attachment F - Performance Summaries in Previous QPPR's

ENFORCEMENT SINCE LAST QPPR

Unit 1

None

Unit 2

None

LERs SINCE LAST QPPR

Unit 1

93-020	08-13-93	Entry into TS 3.0.3 due to the FWIBVs being determined to be inoperable.
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Unit 2

None

(3) DRP Recommendation

(4) Recommended MIP Changes

# PLANT SUPPORT

## (1) Performance Summary

### IR 93-15 Tapia, Evans

Areas Inspected: Routine, unannounced inspection of plant status, operational safety verification, engineered safety features system walkdowns (Units 1 and 2), maintenance and surveillance observations, refueling activities (Unit 2), followup on previously identified violations and open items, and licensee event report (LER) followup.

#### Strengths:

- A high head safety injection pump surveillance test was performed without incident. Corrective actions committed to in a previous Notice of Violation were noted to be correctly incorporated into the surveillance procedure.
- The development of a Surveillance Procedure Enhancement Program was a proactive initiative by the licensee and was necessary, as demonstrated by the high number of deficient surveillance procedures that were recently identified.

#### Weaknesses:

- During the inspection period, four commitments made to the NRC were not completed within the required intervals and were indicative of a weakness in compliance with NRC commitments. The missed commitments were licensee identified, and appropriate corrective actions were taken or were planned.
- A continuation of a negative trend in personnel performance was noted when a residual heat removal pump was incorrectly returned to service. This was caused by failure to properly implement a filed change into a surveillance procedure and resulted in a Technical Specification violation.
- An emergency diesel generator valid failure occurred and the cause of the failure was not clearly identified by the end of the inspection period. An inspection unresolved item was generated to track the cause of the valid failure.
- The Unit 2 refueling outage scope increased during the inspection period while manpower resources were reduced because of the Unit 1 forced maintenance outage. The work scope and manpower restraints had a negative effect on the outage schedule. Most areas of Unit 2 were noted to be clean, with three exceptions.
- During the closeout of a Violation for inadequate preventive maintenance, a corrective action program weakness was identified. The station problem report which investigated the event failed to consider the generic considerations of this incident with respect to other components.
- An additional weakness in the corrective action program was identified. The corrective actions taken in response to two previous component cooling water pump automatic start events failed to prevent a third unanticipated start.

### IR 93-19 Ellershaw

Areas Inspected: Reactive, announced onsite inspection of events pertaining to the licensee's notification regarding a normally closed main feedwater isolation bypass valve being discovered partially open, and a notification of a failure to maintain the equipment qualification of a residual heat removal motor-operated valve.

#### Strengths:

None

Weaknesses:

An unresolved item was identified with respect to the licensee's implementation of corrective action after they recognized the significance of the positioners' reclassification.

IR 93-20 Tapia, Evans

Areas Inspected: Routine, unannounced inspection of plant status, onsite followup of events, operational safety verification, monthly maintenance observations, refueling activities (Unit 2), followup on previously identified violations, unresolved and open items, and licensee event reports (LERs).

Strengths:

The Material Condition Improvement Plan was developed and implemented to resolve material condition issues that adversely impacted safe and reliable station operations.

Weaknesses:

A continuing negative trend in compliance with NRC commitments was noted. Three additional missed commitments were identified during this inspection period (four were identified last inspection period). Additional oversight by the licensee is required in this area of plant licensing.

Failure to properly revise a test procedure was identified as a violation.

IR 93-22 Satorius

Areas Inspected: A special inspection was conducted to determine the circumstances surrounding the loss of spent fuel pool (SFP) cooling on June 13-14, 1993.

Strengths:

None

Weaknesses:

The failure to initiate a station problem report and to take adequate corrective action following deficiencies identified during a previous safety-related Class 1E distribution panel power supply transfer was a violation of the requirements of 10 CFR Part 50, Appendix B, Criterion XVI.

IR 93-24 Loveless, Satorius, Evans, Keeton, Garcia

Areas Inspected: Routine, unannounced inspection of plant status, onsite followup of events, operational safety verification, maintenance and surveillance observations, review of previously identified violations, unresolved, and open items.

Strengths:

Once identified, the licensee's approaches to resolving the causes of events reviewed were very good.

In general, the surveillance tests observed were performed in a controlled, deliberate manner and were governed by approved procedures. Pretest briefings were conducted and test personnel worked effectively together and followed proper procedures.

Test personnel requested and obtained additional guidance prior to continuing the low head safety injection functional test when the procedure was found to be inadequate.

The licensee's procedures for protecting plant equipment and radioactive materials from hurricane force winds on site, met and exceeded the current regulatory requirements and licensee commitments.

Weaknesses:

None

IR 93-25 Spitzberg, Keeton

Areas Inspected: Routine, announced inspection of the operational status of the emergency preparedness program, including changes to the emergency plan and implementing procedures; emergency facilities, equipment, and supplies; organization and management control; training; and internal reviews and audits.

Strengths:

- Changes to the licensee's Emergency Plan and implementing procedures had been properly reviewed and approved.
- Nearsite emergency response facilities and emergency equipment had been maintained in a state of operational readiness.
- Emergency response duties and responsibilities were clearly defined, and a good number of trained and qualified personnel stood ready to respond to emergencies.
- The emergency planning staff was well qualified and experienced but had recently lost its only staff member with significant operations experience.
- Quality assurance audits and surveillances of the emergency preparedness area met the requirements of 10 CFR 50.54(t) and had been conducted in an excellent manner.

Weaknesses:

- A noncited violation occurred as a result of the failure to submit certain Emergency Plan and implementing procedure changes to the NRC as required.
- Initial emergency preparedness training had been conducted as required. A violation was identified for failure to follow the requalification training requirements identified in the Emergency Plan (Section 5.1.1).
- Drills and exercises were conducted as required. The distribution of drill training opportunities was not equitable, and followup on drill findings was not well documented or tracked.
- An Unresolved Item was identified pending a determination of whether the licensee has corrected past weaknesses in day shift emergency accountability.
- Two weaknesses were identified during walkthroughs with operating crews, one for failure to properly classify conditions corresponding to an Alert, and the second for failure of all crews evaluated to calculate dose projections in an accurate and timely manner.

IR 93-29 Gaines

Areas Inspected: Routine, announced inspection of the solid radioactive waste management and radioactive materials transportation programs.

Strengths:

- Excellent audits and surveillances were performed by qualified individuals.
- There had been no major changes in facilities, equipment, programs, or procedures.

- An appropriate safety review was performed for an interim, low level waste storage building.
- The radioactive waste and transportation programs had a well qualified staff.
- Training for personnel involved in transportation duties was good.
- Good implementing procedures were maintained for the radioactive waste management program.
- Radioactive waste was properly classified, characterized, and prepared for shipment.
- Individuals responsible for transportation of radioactive waste were knowledgeable of the regulatory requirements and burial site license conditions.

Weaknesses:

None

(2) Attachment G - Performance Summaries in Previous QPPR's

ENFORCEMENT SINCE LAST QPPR

Unit 1

93-020	07-30-93	IV	SSPS surveillance procedures used without all revisions being incorporated.
93-025	08-24-93	IV	Failure to adequately requalify emergency preparedness personnel.

Unit 2

93-015	07-06-93	IV	RHR pump returned to service with incorrect IST reference values used for surveillance testing.
93-022	07-23-93	IV	Failure to take adequate corrective action to preclude recurrence of break-before-make safety-related bus transfers.
93-025	08-24-93	IV	Failure to adequately requalify emergency preparedness personnel.

LERs SINCE LAST QPPR

None


(3) DRP Recommendation


(4) Recommended MIP Changes

# SOUTH TEXAS PROJECT ELECTRIC STATION

## OVERVIEW OF PERFORMANCE

- OVERALL PERFORMANCE WAS MIXED
  - OPERATOR PERFORMANCE DECLINED; HOWEVER, STAFFING ENHANCEMENTS SHOULD MAKE SOME IMPROVEMENTS TO CONTROL ROOM OPERATORS ABILITY TO REMAIN FOCUSED ON THE PLANT
    - RECENT WEAKNESSES HAVE BEEN IDENTIFIED IN OPERATOR LICENSE TRAINING
  - WEAKNESSES CONTINUE IN MAINTENANCE
    - WORK PRIORITIZATION AND MAINTENANCE PLANNING REMAIN LICENSEE CHALLENGES
    - SEVERAL SPECIFIC HARDWARE ISSUES REQUIRE RESOLUTION PRIOR TO RESTART
      - STANDBY DIESEL GENERATORS (SDGs)
      - FEEDWATER ISOLATION BYPASS VALVES
    - UNITIZATION EFFORTS VIEWED AS AN ENHANCEMENT
  - ENGINEERING HAS SEVERAL SPECIFIC HARDWARE AND PERSONNEL ISSUES THAT REQUIRE RESOLUTION
    - ESSENTIAL CHILLERS
    - FIRE PROTECTION
    - SYSTEM ENGINEER TRAINING WEAKNESSES
    - BACKLOGS
  - PLANT SUPPORT ISSUES WITH WEAK PERFORMANCE BY EMERGENCY PREPAREDNESS AND SECURITY
- SIGNIFICANT MANAGEMENT AND ORGANIZATIONAL CHANGES HAVE BEEN IMPLEMENTED -- THE ABILITY OF THIS NEW MANAGEMENT TEAM TO BE EFFECTIVE AND REVERSE THE PREVIOUS POOR PERFORMANCE TRENDS REMAINS TO BE DEMONSTRATED
  - CORPORATE OFFICERS
  - UNITIZATION
  - OPERATIONAL READINESS PLAN/BUSINESS PLAN

 - October 12, 1993

  
C/15



# SOUTH TEXAS PROJECT

## PLANT OPERATIONS

- **OPERATOR PERFORMANCE CONTINUES TO BE WEAK**
  - SPENT FUEL POOL COOLING LOSS FOR 13-HOURS
  - OPERATIONS WORK CONTROL GROUP IMPLEMENTED, BUT NOT FULLY EFFECTIVE; OPERATORS STILL APPEAR TO BE DISTRACTED AND LOSING FOCUS ON THE OPERATION OF THE PLANT BY NON-OPERATIONS DUTIES
  - OPERATOR DECORUM AND PROFESSIONALISM IN THE CONTROL ROOM CONSIDERED BELOW AVERAGE
  - RECURRENT EQUIPMENT CLEARANCE ORDER IMPLEMENTATION PROBLEMS RESULTED IN A 3-HOUR SITE STANDDOWN
  - 3 FAILURES OF 15 CANDIDATES ON THE LATEST OPERATOR LICENSING EXAMINATION
  
- **STAFFING ENHANCEMENTS**
  - 20 NEW REACTOR PLANT OPERATORS HIRED AND ARE PRESENTLY IN TRAINING
  - NEW RPOs INTENDED TO RELIEVE SHORTAGES THAT HAVE CONTRIBUTED TO EXCESSIVE OVERTIME, OPERATOR ERRORS DUE TO OVERWORK, AND TIGHT SHIFT SCHEDULING DUE TO LIMITED NUMBERS OF NON-LICENSED OPERATORS
  - SHIFT REALIGNMENT THAT WILL ADD ADDITIONAL RPOs TO EACH OPERATING CREW SHOULD BE A POSITIVE ENHANCEMENT
  - PLANTS NOW HAVE UNITIZED OPERATIONS MANAGEMENT THAT SHOULD ENHANCE MANAGEMENT OVERSIGHT AND COMMUNICATIONS OF EXPECTATIONS

## MAINTENANCE

- **WEAKNESSES CONTINUE IN WORK PRIORITIZATION AND MAINTENANCE PLANNING**
  - MAINTENANCE BACKLOG REMAINS HIGH, BUT REDUCTIONS HAVE BEEN ACHIEVED
  - OPERATIONS WORK CONTROL GROUP WAS RECENTLY ACTIVATED -ITS EFFECT ON MAINTENANCE ACTIVITIES REMAINS TO BE DETERMINED
  - EFFECTIVE WORK COORDINATION STILL REMAINS A CHALLENGE
  
- **MAIN FEEDWATER ISOLATION BYPASS VALVES**
  - SEVERAL ITEMS CONCERNING THE OPERABILITY OF THESE VALVES REMAIN UNRESOLVED PENDING FURTHER INSPECTION
  
- **STANDBY DIESEL GENERATORS**
  - SDG 23 CONFIGURATION CONTROL PROBLEMS ASSOCIATED WITH THE REVERSE POWER RELAYS
  - UNDOCUMENTED MODIFICATIONS ON REVERSE POWER RELAYS
  - LICENSEE HAS NOT COMMITTED TO A COMPREHENSIVE RETEST PROGRAM ON THE SDGs PRIOR TO RESTART IN ORDER TO DEMONSTRATE RELIABILITY
  
- **TURBINE-DRIVEN AUXILIARY FEEDWATER PUMPS (TDAFWPs)**
  - TESTING OF BOTH UNITS TDAFWPs IS INCOMPLETE, PENDING ENTRY INTO MODE 3 TO ESTABLISH CONDITIONS FOR RETEST
  
- **UNITIZATION EFFORTS SHOULD IMPROVE SUPERVISORY AND MANAGEMENT OVERSIGHT OF WORK ACTIVITIES**
  - TWO SUPERVISORS PER CREW

[REDACTED]

[REDACTED] - October 12, 1993

# SOUTH TEXAS PROJECT

## ENGINEERING

- NEW MANAGEMENT - REORGANIZATION IN PROGRESS
- ESSENTIAL CHILLERS
  - ENGINEERING ANALYSIS ON THE ABILITY OF THE CHILLERS TO PERFORM THEIR FUNCTION DURING DESIGN BASED ACCIDENT AT LOW LOAD
  - SEVERAL SIGNIFICANT RELIABILITY ISSUES NEED RESOLUTION PRIOR TO RESTART
- SYSTEM ENGINEERING
  - SYSTEM ENGINEERS ARE STILL OVERBURDENED WITH RESPONSIBILITIES
  - ENGINEER'S SYSTEM KNOWLEDGE REMAINS WEAK
  - AMBITIOUS SYSTEM ENGINEER TRAINING PROGRAM SHOULD IMPROVE OVERALL SYSTEM ENGINEER QUALITY
- SYSTEM CERTIFICATION

## PLANT SUPPORT

- WEAK PERFORMANCE DURING EP EXERCISE AND DRILLS
  - PERSONNEL ACCOUNTABILITY -- OBJECTIVE NOT MET -- UNRESOLVED
- WEAK PERFORMANCE IN SECURITY
  - LOW MORAL WITHIN THE SECURITY FORCE
  - EXCESSIVE OVERTIME HAS CONTRIBUTED TO THE LOW MORAL; THE LICENSEE HAS TAKEN STEPS TO ADD ADDITIONAL OFFICERS TO IMPROVE STAFFING LEVELS
  - POOR SECURITY EQUIPMENT MAINTENANCE HAS RESULTED IN EXCESSIVE NUMBERS OF COMPENSATORY POSTING THAT EXACERBATES OVERTIME ISSUES
- OVERALL STRONG PERFORMANCE IN RP
- FIRE PROTECTION
  - NUMEROUS ISSUES REMAIN PENDING INVOLVING THE RELIABILITY OF THE FIRE PROTECTION SYSTEM
  - SIGNIFICANT EFFORT HAS BEEN INITIATED BY THE LICENSEE TO UPGRADE THE SYSTEM

October 12, 1993

ATTACHED IS THE INFORMATION TO BE USED FOR  
THE SPPR FOR

## **SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION**

THE SPPR DISCUSSION WILL BE HELD IN THE DRP  
CONFERENCE ROOM

**0930 HOURS  
OCTOBER 20, 1993**

B. BEACH  
P. GWYNN  
P. HARRELL  
S. COLLINS  
A. HOWELL  
T. WESTERMAN  
L. CONSTABLE  
D. POWERS  
I. BARNES  
J. PELLET  
J. CALLAN  
D. CHAMBERLAIN  
B. MURRAY  
SRI\*  
PM\*  
\* SENT VIA E-MAIL



**SOUTH TEXAS PROJECT**  
**EXECUTIVE SUMMARY**  
**SEMIANNUAL PLANT PERFORMANCE REVIEW 93-04**  
**OCTOBER 20, 1993**

**SALP CYCLE 010**  
**(AUGUST 2, 1992 THRU JULY 2, 1994)**

**I. OVERVIEW**

Both units have remained shutdown the entire quarter, as a result of turbine-driven auxiliary feedwater pump operability concerns and other issues. Poor performance trends have continued in the areas of plant operations, engineering, maintenance, and plant support. Operator performance inadequacies have been identified in routine and special inspections; the licensee's corrective action program has not exhibited effectiveness; and the maintenance and engineering backlogs remain challenges to the licensee.

**II. PERFORMANCE INDICATORS**

Quarter 93-01

Analysis: The number of automatic scrams recorded by Unit 2 trended higher than the peer group, with significant events, safety system failures, and forced outage rate trending higher than the peer group for both units. These indicators are due the forced outage and the events in February that resulted in both units being required to shutdown.

**III. SUMMARY OF SIGNIFICANT REGULATORY ISSUES**

Violations identified in plant operations demonstrate continued weaknesses in operator performance. A total of five severity Level IV violations identified in plant support indicates problems in emergency preparedness, corrective action, and surveillance support.

**IV. PLANT OPERATIONS**

**PREVIOUS RATINGS**

SALP 91: 2            92: 2

QPPR 93-01: (NC)    QPPR 93-02: (NC)    QPPR 93-03: (-)    SPPR 93-04: (-)

**STRENGTHS:** Staffing enhancements have been made. 20 new reactor plant operators (RPOs) have been hired and are presently in training; these new RPOs are intended to relieve shortages that have contributed to excessive overtime, operator errors due to overwork, and tight shift scheduling due to limited numbers of non-licensed operators. Shift realignment should add additional licensed reactor operators to each operating crew and are viewed as a positive enhancement to plant operations. Both units have unitized operations management which should enhance management oversight and communications of expectations.

**WEAKNESSES:** Weaknesses in operator performance has been noted in numerous instances. Spent fuel pool cooling was lost for 13-hours, with a shift turnover taking place during the time cooling was lost. The licensee's operations work control group has been implemented, but is not considered fully effective; operators still appear to be distracted and losing focus on the operation of the plant by non-operations duties. Operator decorum and professionalism in the control room was considered below average during recent operator licensing examinations. Recurrent equipment clearance order implementation problems resulted in a 3-hour site standdown during this quarter. Marginal operator knowledge exhibited by 3 failures of 15 candidates on the latest operator licensing examination.

**PERFORMANCE ASSESSMENT WITH RECOMMENDATIONS:** (-) Performance trend; restart activities will further assess the licensee's efforts in this area.

#### V. MAINTENANCE

##### PREVIOUS RATINGS

SALP 91: 2            92: 2D

QPPR 93-01: (-)    QPPR 93-02: (-)    QPPR 93-03: (-)    SPPR 93-04: (-)

**STRENGTHS:** Due to extensive outages on both units, backlog numbers have been reduced. Unitization efforts should improve supervisory and management oversight of work activities.

**WEAKNESSES:** Weaknesses continue in work prioritization, maintenance planning, and control of backlog (which remains relatively high). The operations work control group was recently activated; its effect on maintenance activities remains to be determined with effective work coordination still remaining a challenge. Main feedwater isolation bypass valve operability remains unresolved pending further inspection. Standby diesel generator (SDG) 23 configuration control problems associated with the reverse power relays remain to be resolved by the licensee, in addition to undocumented modifications installed on all machines. At present, the licensee has committed to a retest program on the SDGs prior to restart in order to demonstrate reliability; however, the scope and depth of this program remains unknown. Turbine-driven auxiliary feedwater pumps is incomplete, pending entry into Mode 3 to establish conditions for retest.

**PERFORMANCE ASSESSMENT WITH RECOMMENDATIONS:** (-) Performance trend; restart activities will further assess the licensee's efforts in this area.

## VI. ENGINEERING

### PREVIOUS RATINGS

SALP 91: 2I                      92: 2

QPPR 93-01: (NC)    QPPR 93-02: (NC)    QPPR 93-03: (-)    SPPR 93-04: (-)

**STRENGTHS:** New management, although presently untested at STPEGS, is viewed as a positive. An ambitious system engineer training program should improve overall system engineer quality. The licensee has made significant effort upgrade the fire protection system.

**WEAKNESSES:** An engineering analysis on the ability of the chillers to perform their function during design based accident at low load is pending and requires NRC review prior to restart. Several significant reliability issues concerning the SDGs also require resolution prior to restart. System engineers are still overburdened with responsibilities and their knowledge remains weak. A number of fire protection issues remain pending involving the reliability of the fire protection system.

**PERFORMANCE ASSESSMENT WITH RECOMMENDATIONS:** (-) performance trend; restart activities will further assess the licensee's efforts in this area.

## VII. PLANT SUPPORT

### PREVIOUS RATINGS

SALP 94:

SPPR 93-04: (-)

**STRENGTHS:** The licensee has exhibited overall strong performance in radiation protection and has taken steps to improve the morale problems in the security department by adding additional officers to improve staffing levels.

**WEAKNESSES:** The licensee has had weak performance during emergency preparedness exercises and drills. Overall, the performance of the security department has been weak: low moral exists within the security force with excessive overtime contributing to the morale problems and poor security equipment maintenance has resulted in excessive numbers of compensatory posting that exacerbates overtime issues.

**PERFORMANCE ASSESSMENT WITH RECOMMENDATIONS:** (-) performance trend. The weakness identified in emergency preparedness and security tend to shadow the relatively good performance in radiation protection. Restart activities will further assess the licensee's efforts in this area.

## VIII. TIA STATUS

None opened

IX. MAJOR SITE ACTIVITIES

Completed

None

Planned

- SPEAKOUT Inspection - Late October 1993
- Operational Readiness Assessment Team Inspection - November/December 1993
- Several Regional based inspections during the Restart Inspection activities

X. ENCLOSURES

1. Master Inspection Plan Report 2
2. IFS Report 1
3. Performance Indicators

# SOUTH TEXAS PROJECT

SEMIANNUAL PLANT PERFORMANCE REVIEW 93-04  
OCTOBER 20, 1993

## SUMMARY OF MIP CHANGES - UNIT 1

MODULE	TITLE	AREA	ADD/ CHANGE	FM	TO	DELTA
64704	FIRE PROTECTION/PREVENTION PROGRAM	OPS	A	0	60 <sup>1</sup>	+60
92720	CORRECTIVE ACTION	SA/QV	A	0	125 <sup>2</sup>	+125
NET CHANGE						+185

<sup>1</sup>Justification: Restart Issue inspection

<sup>2</sup>Projects Section A support of Restart Issue Inspection effort

GENERAL NOTE: More Modules will be required to be added as the scope of Restart Issue Inspections are determined



# SOUTH TEXAS PROJECT

SEMIANNUAL PLANT PERFORMANCE REVIEW 93-04  
OCTOBER 20, 1993

## SUMMARY OF MIP CHANGES - UNIT 2

MODULE	TITLE	AREA	ADD/ CHANGE	FM	TO	DELTA
64704	FIRE PROTECTION/PREVENTION PROGRAM	OPS	A	0	20 <sup>1</sup>	+60
92720	CORRECTIVE ACTION	SA/QV	A	0	125 <sup>2</sup>	+125
NET CHANGE						+145

<sup>1</sup>Justification: Restart Issue inspection

<sup>2</sup>Projects Section A support of <sup>1</sup> start Issue Inspection effort

GENERAL NOTE: More Modules will be required to be added as the scope of Restart Issue Inspections are determined

REGION: 4

SITE: SOUTH TEXAS PROJECT

050-00498 SOUTH TEXAS 1  
 050-00499 SOUTH TEXAS 2

STATUS OPEN SEVERITY  
 REPORT FROM TO  
 REPORT ON ALL ITEMS

ABBR	OPNG I/R (IFS NBR)	SEQ	TYPE	P21/LER LOG NBR	LATEST REPORT	SEV/ SPL	REPORT TRANSMITL	STS	CLOSEOUT PROJ/ACT*	CLSOUT ORG	TITLE
STP1 STP2	90-002 90-002	4	IFI		00-000 00-000		03/08/1990	0 0	11/25/1991 11/25/1991	4614	COMMERCIAL GRADE PROCUREMENTS
STP1 STP2	91-003 91-003	1	IFI				03/04/1991	0 0		4304	EMERGENCY RESPONS PERSONNEL PERFORMANCE
STP1 STP2	91-014 91-014	1	VIO			4/8	06/12/1991	0 0		4304	FAILURE TO PERFORM STAFF AUGMENTATION
STP1 STP2	91-016 91-016	2	IFI		91-034 91-034		07/15/1991	0 0	11/25/1991 11/25/1991	4202	OPERATOR OVERTIME ISSUES
STP1 STP2	91-017 91-017	1	EEI			7/3	07/31/1991	0 0		4304	INADEQUATE SECURITY SEARCHES
STP1 STP2	91-019 91-019	1	IFI		93-020 93-020		07/29/1991	0 0		4202	REVIEW OF VALVE LABELING PROGRAM
STP1 STP2	91-032 91-032	1	IFI				01/27/1992	0 0		4304	ASSESSMENT AIDS
STP1 STP2	91-032 91-032	2	IFI				01/27/1992	0 0		4304	TESTING AND MAINTENANCE
STP1 STP2	92-006 92-006	3	IFI				04/10/1992	0 0		4611	MOTOR OPERATED VALVES ISSUES
STP1 STP2	92-007 92-007	1	IFI				06/01/1992	0 0		4614	BACKLOG ON PLANT PERFORMANCE
STP2	92-008*		SIM		88-070			0		4202	75 (B080) ITEM 4.1 RX TRIP SYS RELIABILITY-V
STP1 STP2	92-008 92-008	1	IFI				05/22/1992	0 0		4202	RCS OVERCOOLING
STP1 STP2	92-009 92-009	1	IFI				06/08/1992	0 0		4304	TSC NOT CONSISTENT WITH OFFSITE AUTHORITIES
STP1 STP2	92-014 92-014	3	IFI		92-026 92-026		07/08/1992	0 0	01/06/1993 01/06/1993	4202	EDG AVAILABILITY
STP1	92-015*		SIM		92--26			0		4511	MOV'S (GL-89-10/T12515/109)

REGION: 4

SITE: SOUTH TEXAS PROJECT

050-00498 SOUTH TEXAS 1  
050-00499 SOUTH TEXAS 2STATUS OPEN SEVERITY:  
REPORT FROM REPORT ON ALL ITEMS TO

ABBR	OPNG I/R (IFS NBR)	SEQ	TYPE	P21/LER LOG NBR	LATEST REPORT	SEV/ SPL	REPORT TRANSMITL	STS	CLOSEOUT PROJ/ACT*	CLSOUT ORG	TITLE
STP2	92-016*		STM		92--26			0			4611 MOV'S (GL-89-10/TI2515/109)
STP1 STP2	92-021 92-021	3	IFI				08/03/1992	0 0			4202 EDG UNAVAILABILITY FOR UNITS 1 & 2
STP1 STP2	92-024 92-024	1	VIO			4/1	09/10/1992	0 0			4202 INADEQUATE CORRECTIVE ACTIONS
STP1 STP2	92-024 92-024	3	IFI				09/10/1992	0 0	01/06/1993 01/06/1993		4202 ESSENTIAL CHILLER RELIABILITY AND UNAVAILABI
STP1 STP2	92-024 92-024	5	IFI				09/10/1992	0 0			4202 FAILURE OF PUMP TO START BECAUSE OF BREAKER
STP1 STP2	92-026 92-026	1	VIO			4/1	10/16/1992	0 0			4202 FAILURE TO SATISFY REPORTING REQUIREMENTS
STP2	92-026	3	VIO			4/1	10/16/1992	0			4202 FAILURE TO PERFORM AN ADEQUATE POSTMAINTENAN
STP1 STP2	92-030 92-030	1	IFI				12/31/1992	0 0			4611 UNIT 2 ACTION MOV OVERTHRUST
STP1 STP2	92-034 92-034	3	IFI				12/23/1992	0 0			4304 COMPENSATORY POSTINGS WERE REQUIRED
STP1 STP2	92-035 92-035	1	IFI				03/03/1993	0 0			4202 1ST POWER-OPERATED VALVE IN INCREASED TEST F
STP1 STP2	92-035 92-035	2	VIO			4/1	03/03/1993	0 0			4202 FAILURE TO INITIATE AN SPR
STP1 STP2	92-035 92-035	5	VIO			4/1	03/03/1993	0 0			4202 FAILURE OF CRAFT WORKER TO FRISK & ESTABLISH
STP1 STP2	92-035 92-035	6	VIO			4/1	03/03/1993	0 0			4202 FAILURE TO CONTROL COMBUSTIBLE LOADS
STP1 STP2	92-036 92-036	1	VIO			4/1	03/05/1993	0 0			4202 FAILURE TO ADHERE TO TS REQUIREMENTS
STP1	92-036	3	IFI				03/05/1993	0			4202 REPAIR OF CRACKED PIPE WELD

REGION 4

SITE SOUTH TEXAS PROJECT

050-00498 SOUTH TEXAS 1  
050-00499 SOUTH TEXAS 2STATUS: OPEN SEVERITY  
REPORT FROM: TO  
REPORT ON: ALL ITEMS

ABBR	OPNG I/R (IFS NBR)	SEQ	TYPE	P21/LER LOG NBR	LATEST REPORT	SEV/ SPL	REPORT TRANSMIT	STS	CLOSEOUT PROJ/ACT*	CLSOUT ORG	TITLE
STP1 STP2	92-036 92-036	4	IFI				03/05/1993	0 0			4202 INADEQUATE HEAT TRANSFER TESTING PROGRAM D92
STP1 STP2	92-036 92-036	5	VIO			4/1	03/05/1993	0 0			4202 FAILURE TO INCLUDE VALVES IN IST PROGRAM
STP1 STP2	92-036 92-036	6	VIO			4/1	03/05/1993	0 0			4202 FAILURE TO REQUEST RELIEF FROM AMSE CODE REQ
STP2	92-052*		LER	92-001-00			01/22/1992	0			4202 REACTOR TRIP DROPPED CONTROL ROD
STP2	92-077*		LER	92-002-00				0			4202 LER 92-02-2 SAD DUE TO VERITRAK TRANSM UNCER
STP2	92-203*		LER	92-004-00			04/28/1992	0			4202 ENTRY TO TS 3.0.3 DUE TO CIV FAILING TO CLOS
STP1	92-228*		LER	92-004-00			05/19/1992	0			4202 SHUNT TRIP CONTACTS FOR MANUAL REACTOR TRIP
STP1	92-253*		LER	92-007-00			07/10/1992	0			4202 UNPLANNED ESF ACTUATION OF FHB HVAC SYSTEM
STP1	92-279*		LER	92-012-00			09/03/1992	0			4202 ENTRY INTO TS 3.0.3 CHANNELS OF DRPI INOPERA
STP1	92-295*		LER	92-014-00			09/28/1992	0			4202 CVI OCCURRED PRIOR TO EXPECTED ACTUATION DUR
STP2	92-299*		LER	92-008-00			09/15/1992	0			4202 CR VENTILATION ACTUATION TO RECIR MODE DUE
STP1	93-004	1	VIO			4/1	04/16/1993	0			4202 FAILURE TO ADHERE TO TS BECAUSE OF INADEQUAT
STP2	93-004	2	VIO			4/1	04/16/1993	0			4202 FAILURE TO MAINTAIN ADEQUATE MAINTENANCE WOR
STP2	93-004	3	VIO			4/1	04/16/1993	0			4202 FAILURE TO MAINTAIN MINIMUM SHIFT STAFFING
STP1 STP2	93-004 93-004	4	IFI				04/16/1993	0 0			4202 BORATION DILUTION EVENT
STP1 STP2	93-006 93-006	1	IFI				07/20/1993	0 0			4611 REEVALUATE METHODOLOGY FOR CALCULATING STEM
STP1 STP2	93-006 93-006	2	IFI				07/20/1993	0 0			4611 VALVES TESTED BELOW 80% OF DESIGN BASIS
STP1	93-006	3	IFI				07/20/1993	0			4611 DIFFERENTIAL PRESSURE TEST DATA FOR LIMIT-CL

REGION: 4

SITE: SOUTH TEXAS PROJECT

050 00498 SOUTH TEXAS 1  
 050 00499 SOUTH TEXAS 2

STATUS OPEN SEVERITY:  
 REPORT FROM TO:  
 REPORT ON ALL ITEMS

ABBR	OPNG I/R (IFS NBR)	SEQ	TYPE	P21/LER LOG NBR	LATEST REPORT	SEV/ SPL	REPORT TRANSMIT	STS	CLOSEOUT PROJ/ACT*	CLSOUT ORG	TITLE
STP2	93-006							0			
STP1 STP2	93-006 93-006	4	IFI				07/20/1993	0 0			4611 TORQUE EXTRAPOLATION METHOD
STP1 STP2	93-006 93-006	5	IFI				07/20/1993	0 0			4611 DIFFERENTIAL PRESSURE TESTS LESS THAN 80% ME
STP1 STP2	93-006 93-006	6	IFI				07/20/1993	0 0			4611 OPENING DIFFERENTIAL PRESSURE TRACE OF MOV A
STP1 STP2	93-006 93-006	7	IFI				07/20/1993	0 0			4611 VALVE FACTOR MOV B2RCMOV0001B
STP1 STP2	93-006 93-006	8	IFI				07/20/1993	0 0			4611 CAUSES OF BEHAVIOR OF UNIT 1 VALVE
STP1 STP2	93-006 93-006	9	IFI				07/20/1993	0 0			4611 RETESTING OF MOV5
STP1 STP2	93-006 93-006	10	IFI				07/20/1993	0 0			4611 METHOD FOR ZEROING THRUST AND TORQUE TRACES
STP1 STP2	93-006 93-006	11	IFI				07/20/1993	0 0			4611 LIMITORQUE UNDER EVALUATION POTENTIAL 10CFR2
STP1 STP2	93-006 93-006	12	IFI				07/20/1993	0 0			4611 PRESSURE LOCKING AND THERMAL BINDING OF GATE
STP1 STP2	93-008 93-008	3	IFI				03/17/1993	0 0			4611 ADEQUACY OF LICENSEE'S LUBRICATION PROGRAM
STP1 STP2	93-008 93-008	5	IFI				03/17/1993	0 0			4611 OVERTORQUE OF UNIT 1 RHR SUCTION VALVES
STP1	93-009*		LER	92-018-00			10/21/1992	0			4202 VOLUNTARY PRESSURIZER SAFETY VALVE SETPOINTS
STP1 STP2	93-009 93-009	1	V10			4/1	03/31/1993	0 0			4614 PHYSICAL OBSERVATIONS FROM FIRE AREA WALKDOW
STP1	93-010*		LER	92-019-00			12/02/1992	0			4202 CALCULATION ERRORS SETPOINT CURVES COLD OVER
STP1	93-011*		LER	92-021-00			12/15/1992	0			4202 MAIN STEAM ISO. RESP. TIME TESTING PER TS

REGION 4

SITE SOUTH TEXAS PROJECT

050-00498 SOUTH TEXAS 1  
 050-00499 SOUTH TEXAS 2

STATUS: OPEN SEVERITY:  
 REPORT FROM: TO:  
 REPORT ON: ALL ITEMS

ARRR	OPNG I/R (IFS NBR)	SEQ	TYPE	P21/LER LOG NBR	LATEST REPORT	SEV/ SPL	REPORT TRANSMI	STS	CLOSEOUT PROJ/ACT*	CLSOUT ORG	TITLE
STP2	93-011	1	VIO			4/1	05/21/1993	0			4202 FAILURE TO PLACE VENTILATION SYS IN REQ MOD
STP1	93-011	3	VIO			4/1	05/21/1993	0			4202 FAILURE TO FOLLOW PROC. FOR RESTORATION OF E
STP1	93-011	4	VIO			4/1	05/21/1993	0			4202 FAILURE TO MAINT. OPERABLE BORON INJECTION F
STP1	93-011	6	IFI				05/21/1993	0			4202 FAILURE TO POST AN NRC NOTICE OF VIO IN A TI
STP2	93-011							0			
STP1	93-012	1	IFI				04/14/1993	0			4202 CRACKS ON FUSE PERFORMANCE
STP2	93-012							0			
STP2	93-013*		LER	92-007-00			09/12/1992	0			4202 UNPLANNED ESF ACT. OF ISO VALVES FOR ABOVE
STP1	93-014	1	VIO			4/1	04/13/1993	0			4600 FAILURE TO GENERATE FORM(-2)'S LEAKAGE IN UNI
STP2	93-014							0			
STP1	93-014	2	VIO			4/1	04/13/1993	0			4600 FAILURE TO PROMPTLY CORRECT THE IDENTI EVID
STP2	93-015	1	VIO			4/1	07/06/1993	0			4202 RHR PUMP INCORRECTLY RETURNED TO SERVICE
STP1	93-015	2	VIO			4/1	07/06/1993	0			4202 FAILURE TO PROP FILL THE HHSI PUMP IC UPPER
STP2	93-015	3	URI				07/06/1993	0			4202 CAUSE OF HIGH FUEL OIL STRAINER DP UNKNOWN
STP1	93-016	1	IFI				05/07/1993	0			4304 PROBLEM IDENTIFICATION & IMPLEMENTATION OF C
STP2	93-016							0			
STP1	93-017*		LER	92-016-00			09/28/1992	0			4202 UNPLANNED ESF ACTUATION OF A CCW PUMP INAD.
STP1	93-017	1	IFI				06/25/1993	0			4304 FAILURE TO RECOGNIZE GENERAL EMERGENCY CONDI
STP2	93-017							0			
STP1	93-017	2	IFI				06/25/1993	0			4304 LICENSEE PERFORMANCE IN PROVIDING TECH ASSES
STP2	93-017							0			
STP1	93-017	3	IFI				06/25/1993	0			4304 INSUFFICIENT STAFFING OF THE TSC
STP2	93-017							0			
STP1	93-017	4	IFI				06/25/1993	0			4304 UNNECESSARY DELAYS PROVIDING PROPER TREATMEN
STP2	93-017							0			

REGION: 4

SITE: SOUTH TEXAS PROJECT

050-00498 SOUTH TEXAS 1  
050-00499 SOUTH TEXAS 2STATUS OPEN  
REPORT FROM  
REPORT ON ALL ITEMSSEVERITY:  
TO:

ABBR	OPNG I/R (IFS NBR)	SEQ	TYPE	P21/LER LOG NBR	LATEST REPORT	SEV/ SPL	REPORT TRANSMITL	STS	CLOSEOUT PROJ/ACT*	CLSOUT ORG	TITLE
STP1 STP2	93-017 93-017	5	IFI				06/25/1993	0 0		4304	ISSUANCE OF COMPLETE & ACCURATE NOTIFICATION
STP1 STP2	93-017 93-017	6	IFI				06/25/1993	0 0		4304	LICENSEE'S SELF-CRITIQUE PROCESS
STP1	93-019*		LER	92-020-00			12/08/1992	0		4202	TOXIC GAS MONITOR CHANNEL NON-TRIPPED CONDT.
STP1 STP2	93-019 93-019	1	URI				07/23/1993	0 0		4612	VALVE MANIPULATION BEING PERFORMED W/O AUTHO
STP1 STP2	93-019 93-019	2	URI				07/23/1993	0 0		4612	1ST PROG. REGARDING CALIB. OF REMOTE POSITIO
STP1 STP2	93-019 93-019	3	URI				07/23/1993	0 0		4612	RECLASSIFICATION OF POSITIONERS
STP1 STP2	93-019 93-019	4	URI				07/23/1993	0 0		4612	PROMPTLY CORRECT IDENTIFIED CONDITIONS ADVER
STP1 STP2	93-019 93-019	5	IFI				07/23/1993	0 0		4612	LACK OF SUFFICIENT BASES FOR DEACTIVATING PM
STP1 STP2	93-019 93-019	6	URI				07/23/1993	0 0		4612	FAILURE TO MAINTAIN ENVIRON. QUALIF. OF ELEC
STP2	93-019	7	URI				07/23/1993	0		4612	FAILURE TO INSTALL T-DRAINS ON MOVES IN HARSH
STP2	93-020	1	IFI				07/30/1993	0		4202	FAILURE ANALYSIS & LICENSEE'S REV. OF POTEN.
STP1	92-020	2	VIO			4/1	07/30/1993	0		4202	FAILURE TO PROPERLY REVISE TEST PROCE. VIO 0
STP1	93-021	1	VIO			4/1	06/30/1993	0		4202	PROMPT CORRECTIVE ACTIONS NOT INITIA. TO COR
STP2	93-022	1	VIO			4/1	07/23/1993	0		4202	INADEQUATE OPERATOR WATCHSTANDING
STP2	93-022	2	VIO			4/1	07/23/1993	0		4202	INADEQUATE CORRECTIVE ACTION
STP1 STP2	93-023 93-023	1	IFI				08/05/1993	0 0		4304	IMPLEMENTATION OF COMP. MEASURES FOR DEGRADE
STP1	93-024*		LER	93-001-00			01/05/1993	0		4202	TS 3.0 3 RCS DELTA-T CHANNELS BEING INOP. SA

REGION 4

SITE SOUTH TEXAS PROJECT

050-00498  
 050-00499

SOUTH TEXAS 1  
 SOUTH TEXAS 2

STATUS: OPEN  
 REPORT FROM:  
 REPORT ON: ALL ITEMS

SEVERITY TO

ABBR	OPNG I/R (IFS NBR)	SEQ	TYPE	P21/LER LOG NBR	LATEST REPORT	SEV/ SPL	REPORT TRANSMITL	STS	CLOSEOUT PROJ/ACT*	CLSOUT ORG	TITLE
STP1 STP2	93-024 93-024	1	IFI				09/13/1993	0 0			4202 FWIBV PREMATURE COOLDOWN
STP1 STP2	93-025 93-025	1	VIO			4/B	08/24/1993	0 0			4304 FAILURE TO FOLLOW EMERGENCY PLAN
STP1 STP2	93-025 93-025	2	URI				08/24/1993	0 0			4304 WEEKNESSES IDENTIFIED WITH LICENSEE'S EMGER
STP1 STP2	93-025 93-025	3	IFI				08/24/1993	0 0			4304 FAILURE TO PROPERLY CLASSIFY COND. CORRES TO
STP1 STP2	93-025 93-025	4	IFI				08/24/1993	0 0			4304 FAILURE OF THE CREWS CALCULATE DOSE PROJECTI
STP1	93-029*		LER	93-002-00			01/09/1993	0			4202 TS 3.0.3 TWO CHANNELS OF POWER RANGE NUCLEAR
STP1	93-031*		LER	93-004-00			01/12/1993	0			4202 TS VIO FAILURE SURVEL. REQ. BY ASME SECTION
STP2	93-035*		LER	93-001-00			01/23/1993	0			4202 REACTOR TRIP DUE TO FAILUR OF A MAIN TURBINE
STP1	93-036*		LER	93-005-00			01/20/1993	0			4202 STANDBY DIESEL GENERATOR 13 FAILURE TO START
STP2	93-039*		LER	93-002-00			01/29/1993	0			4202 UNPLANNED ESF ACTUA. OF AN ECW SCREEN WASH B
STP2	93-044*		LER	92-010-00			12/27/1992	0			4202 RX TRIP DUE TO FWRV CLOSURE
STP2	93-046*		LER	93-004-00			02/03/1993	0			4202 REACTOR TRIP DUE TO LOW STEAM GENERATOR WATE
STP2	93-049*		LER	93-003-00				0			4202 TS 3.0.3 INOPER. DRPI SYSTEM
STP2	93-050*		LER	93-005-00			02/14/1993	0			4202 CR UNMANNED BY SLO DURING MODE 4 OPERATIONS
STP1	93-051*		LER	93-007-00			02/04/1993	0			4202 TS REQUIRED SHUTDOWN INOPER. AFW PUMP
STP1	93-056*		LER	93-009-00			02/17/1993	0			4202 UNANALYZED CONDITION UNDERSIZED FUSES SSPS
STP1	93-069*		LER	93-010-00			02/23/1993	0			4202 UNPLANNED ACTUATION OF AN ESF DAMPER DUE TO
STP2	93-070*		LER	93-007-00			03/10/1993	0			4202 TS VIO CR ENVELOPE HVAC NOT IN REQ. MODE OF
STP1	93-085*		LER	93-014-00			04/23/1993	0			4202 TS VIO CR ENVELOPE HVAC SYS. NOT OPERATED IN



REGION: 4

SITE: SOUTH TEXAS PROJECT

050-00498 SOUTH TEXAS 1  
050-00499 SOUTH TEXAS 2STATUS: OPEN SEVERITY:  
REPORT FROM: TO:  
REPORT ON: ALL ITEMS

ABBR	OPNG I/R (IFS NBR)	SEQ	TYPE	P21/LER LOG NBR	LATEST REPORT	SEV/ SPL	REPORT TRANSMITL	STS	CLOSEOUT PROJ/ACT*	CLSOUT ORG	TITLE
STP1	93-086*		LER	93-015-00				0			4202 TS VIO DUE TO NONCONSERVATIVE DETER. OF EQUI
STP2	93-105*		LER	93-008-00			05/05/1993	0			4202 TS VIO FAILURE TO MAINT ENVIR QUAL RHR MOV
STP2	93-106*		LER	93-009-00			04/26/1993	0			4202 TS VIO DUE TO USE OF INAPPR REF VALUE DATA R
STP1	93-107*		LER	93-016-00			05/03/1993	0			4202 TS VIO CIRCUITRY FOR SG PORV RCS SUBCOOLING
STP1	93-109*		LER	93-012-00			04/05/1993	0			4202 TS VIO INCORRECT SETTINGS MOLDED CASE CIRCUIT
STP1	93-110*		LER	93-013-00			04/08/1993	0			4202 TS VIO PERFORMING POSITIVE REACTIVITY CHANGE
STP1	93-111*		LER	93-017-00			05/27/1993	0			4202 EXTENSION OF FW ISO BYPASS POSITIONER & SOLE
STP2	93-112*		LER	93-010-00			05/26/1993	0			4202 FAILURE OF AN ECW TRAVELING SCREEN DRIVE COU
STP2	93-115*		LER	93-006-00			02/17/1993	0			4202 TS VIO DUE TO TRAIN A LHSI
STP2	93-116*		LER	93-011-00			04/01/1993	0			4202 VOL PRESS SAFETY VALVE SETPOINTS OUTSIDE REQ
STP2	93-141*		LER	93-012-00			06/14/1993	0			4202 LOSS OF SPENT FUEL POOL COOLING APPRX. 13 HO
STP1	93-142*		LER	93-018-00			07/07/1993	0			4202 SI SYS ACCM VALVES NOT PERFORMED WITH TS
STP2	93-146*		LER	93-013-00			07/19/1993	0			4202 INADVERTENT ESF ACTU. CCW PUMP START
STP1	93-162*		LER	93-019-00			07/09/1993	0			4202 FAILURE TO MEET TS SURV TESTING MAIN STEAML I
STP1	93-164*		LER	93-020-00			08/13/1993	0			4202 TS DUE TO FWIBV BEING DETERMINED TO BE INOPE

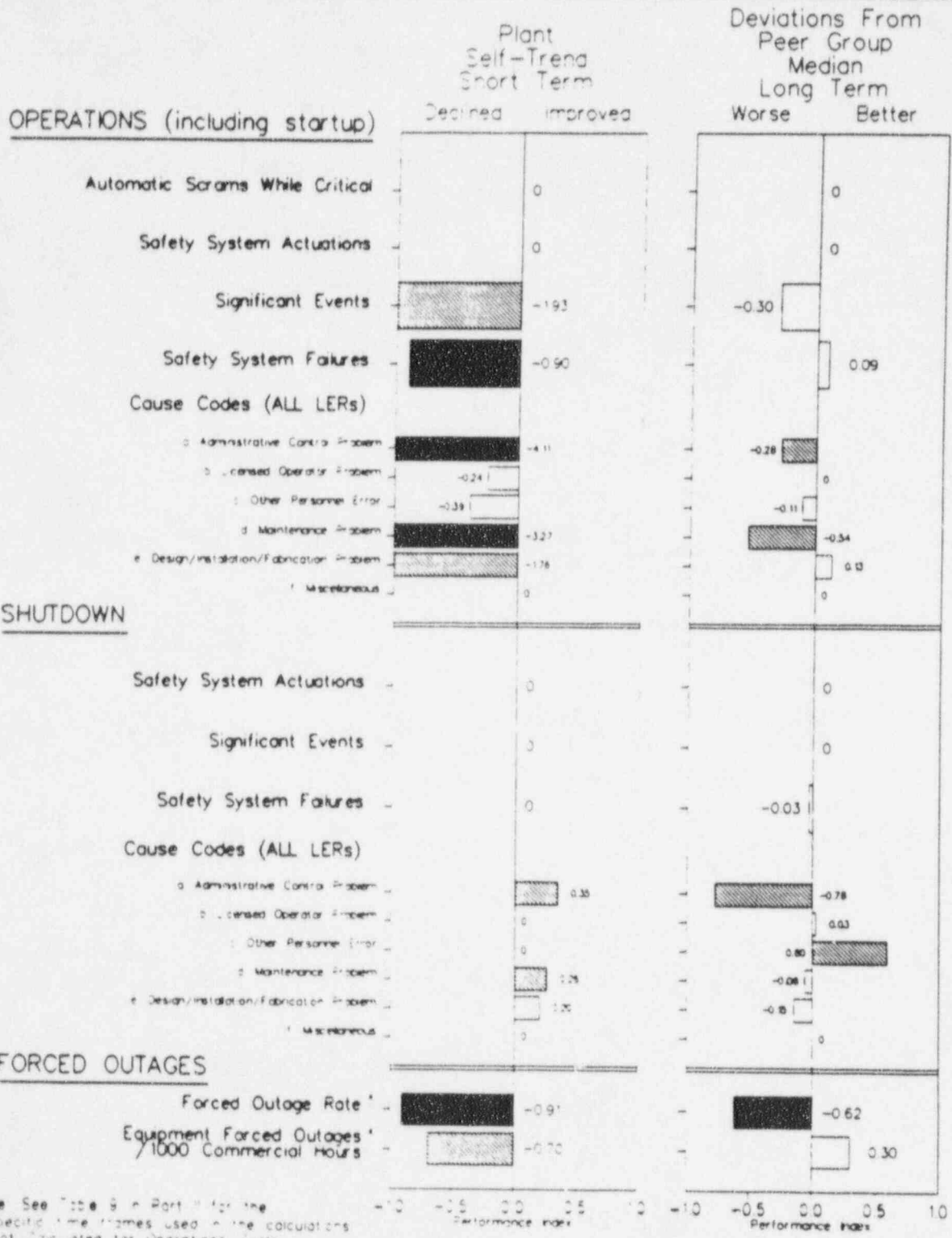
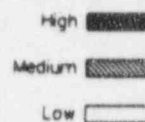
TOTAL OPEN ITEMS 197  
TOTAL OPEN SEQUENCES 131\*IF ITEM IS OPEN, THE PROJECTED CLOSEOUT DATE IS SHOWN  
IF ITEM IS CLOSED, THE ACTUAL CLOSEOUT DATE IS SHOWN

FIGURE 7.89b

# SOUTH TEXAS 1

Peer Group Westinghouse New 3 and 4-Loop  
90-2 to 93-1 Trends and Deviations

Legend Statistical Significance



Note: See Table 8 in Part II for the specific time frames used in the calculations.  
\* Not Calculated for Operations Cycle

FIGURE 7.89a

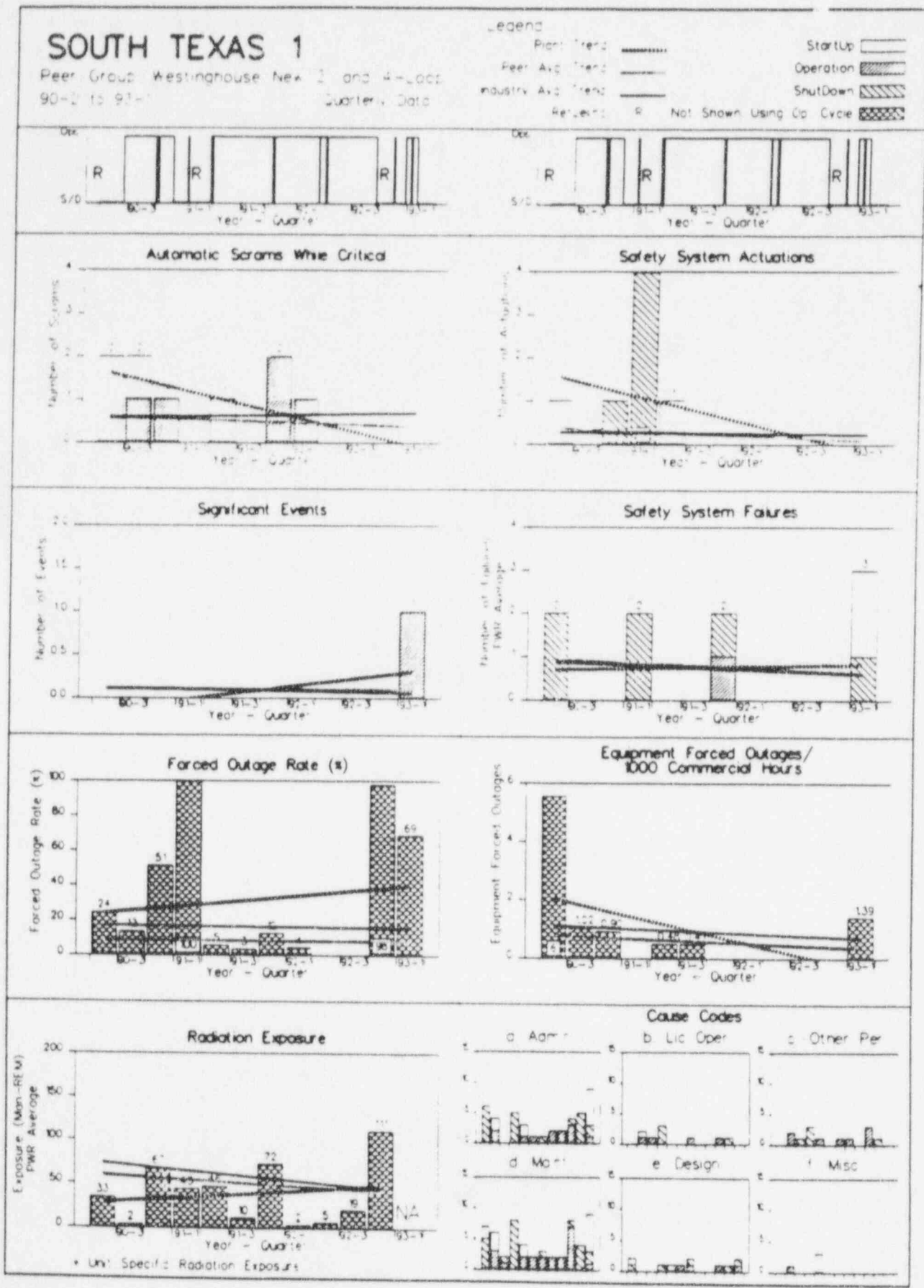


FIGURE 7.90b

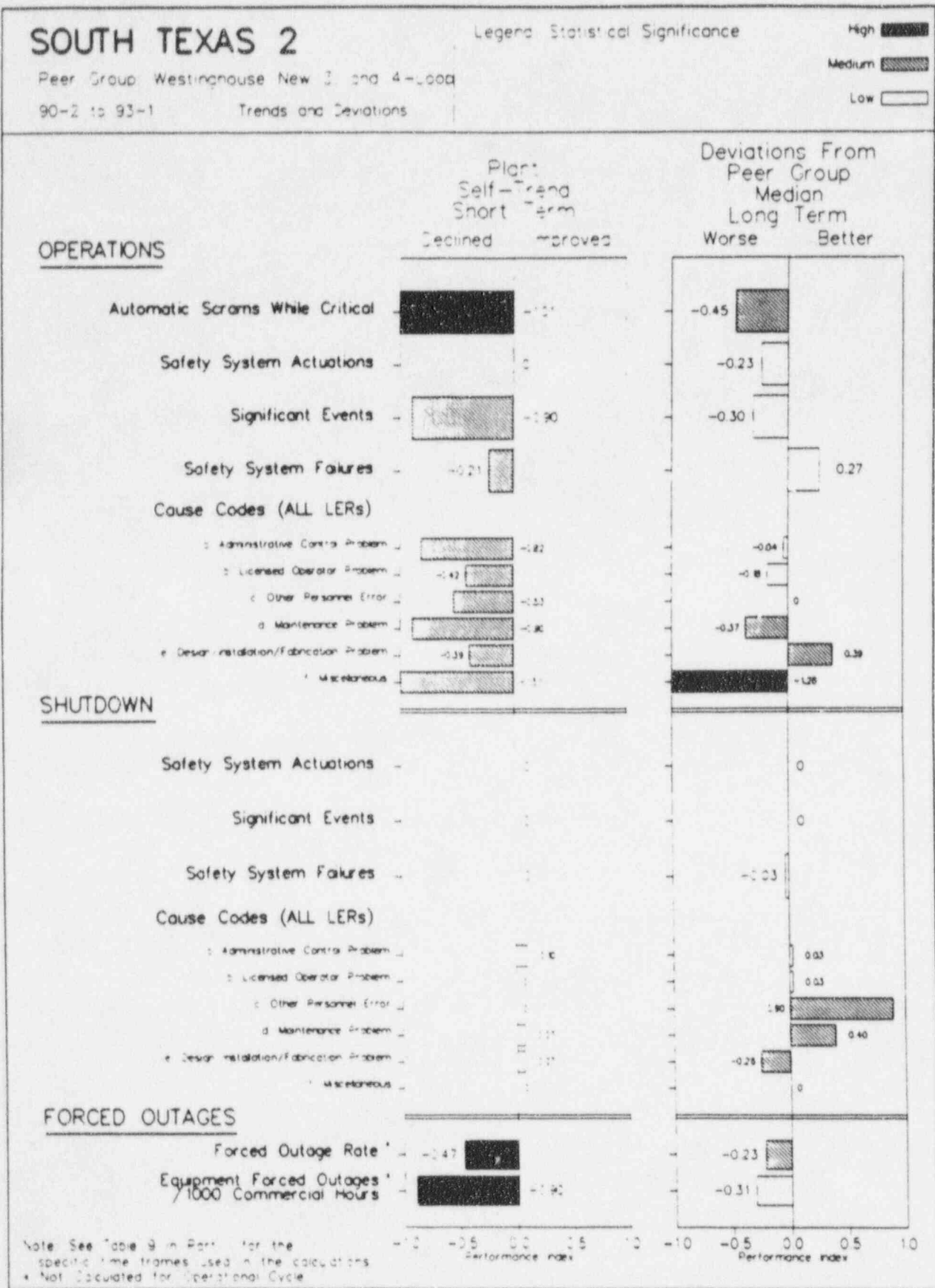
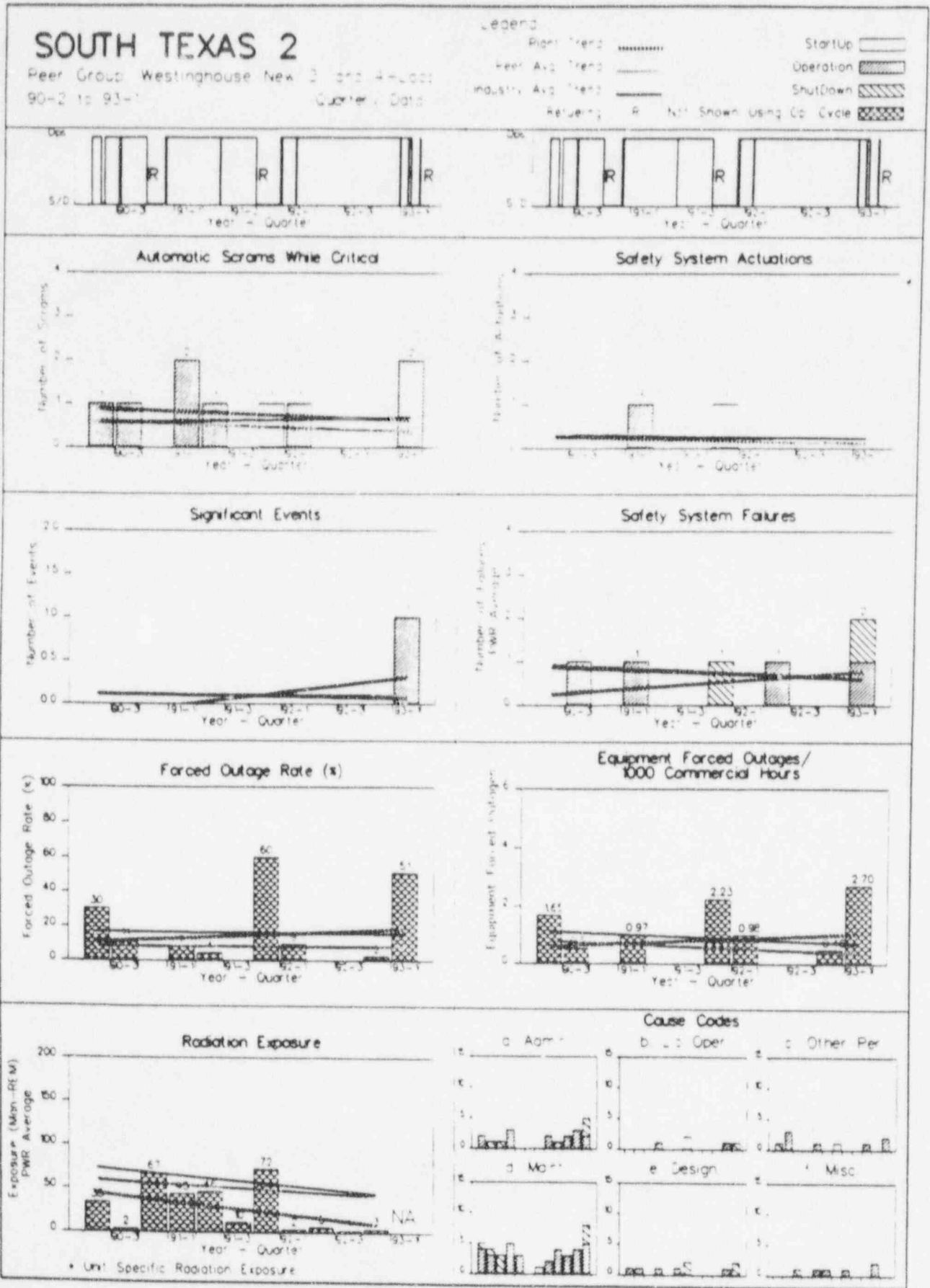


FIGURE 7.90a



BACKGROUND INFORMATION  
ON  
SOUTH TEXAS PROJECT

Utility: Houston Lighting & Power Company  
Location: Bay City, Texas  
County: Matagorda

	<u>Unit 1</u>	<u>Unit 2</u>
Docket Nos.	50-498	50-499
CP Issued:	December 22, 1975	Same
Low Power License:	August 21, 1987	December 16, 1988
Full Power License:	NPF-76, 03/22/88	NPF-80, 03/28/89
Initial Criticality:	March 8, 1988	March 12, 1989
Elec. Ener. 1st Gener:	March 30, 1988	April 11, 1989
Commercial Operation:	August 25, 1988	June 19, 1989
Reactor Type:	Four-loop PWR(RESAR-41)	Same
Containment Type:	Dry atmospheric post-tensioned concrete with a steel liner	
Power Level:	3800 MWT	Same
Architect/Engineer:	Bechtel	Same
NSSS Vendor:	Westinghouse	Same
Constructor:	Ebasco	Same
Turbine Supplier:	Westinghouse	Same
Condenser Cooling Method:	Three-shell once-through	Same
Condenser Cooling Water:	Cooling Lake	Same
Senior Project Manager:	Lawrence Kokajko, NRR, PD IV-2, Division of Reactor Projects III, IV, V (301) 504-1309	
AEOD Contact:	Chuck Hsu (301) 492-4443	
NRC Responsible Region:	Region IV, Arlington, Texas James L. Milhoan, Regional Administrator (817) 860-8225 John N. Montgomery, Deputy Regional Administrator (817) 860-8226	
Div. of Reactor Projects:	A. Bill Beach, Director (817) 860-8223 J. Pat Gwynn, Deputy Director (817) 860-8248 William D. Johnson, Chief, Project Section A (817) 860-8148 Mark A. Satorius, Project Engineer (817) 860-8141	
Sr. Resident Inspector:	David Loveless (512) 972-2507	
Resident Inspectors:	Jack Keeton (512) 972-2507 Denise Garcia (512) 972-2507	
Report Coordinated by:	Mark A. Satorius (817) 860-8141	

South Texas Project

Corporate Management Personnel:

W. T. Cottle, Group Vice President, Nuclear  
J. F. Groth, Vice President, Nuclear Generation  
T. H. Cloninger, Vice President, Nuclear Engineering  
W. H. Kinsey, Jr., Vice President, Nuclear Plant Support  
S. L. Rosen, Vice President, Industry Relations

Site Management Personnel:

L. Myers, Plant Manager, Unit 1  
G. Parkey, Plant Manager, Unit 2  
L. Martin, General Manager, Nuclear Assurance  
J. Sheppard, General Manager, Licensing  
T. Jordan, General Manager, Nuclear Engineering  
F. Mangan, General Manager, Plant Services  
M. McBurnett, Manager, Integrated Planning and Scheduling  
K. Christian, Manager, Operations, Unit 1  
W. Dowdy, Manager, Operations, Unit 2  
J. Fast, Manager, Maintenance, Unit 1  
K. Coates, Manager, Maintenance, Unit 2  
H. Bergendahl, Manager, Technical Services  
T. Underwood, Manager, Maintenance Support  
W. Waddell, Manager, Operations Support  
M. Pacy, Manager, Design Engineering  
F. Mallen, Manager, Planning and Assessments  
D. Leazar, Manager, Plant Engineering  
R. Balcom, Manager, Nuclear Security  
M. Ludwig, Manager, Nuclear Training  
J. Soward, Manager, Nuclear Quality Control and Material Testing  
R. Rehkugler, Manager, Quality Assurance  
R. Garris, Manager, Human Resources

Workforce:

HL&P	1818
Contractors	1692 (including 708 outage contractors)
Total	3510

South Texas Project

Reactor Operators:

Total Licensed Operators: 84  
Total Number of SROs: 46  
Total Number of Ros: 38  
SROs in Ops Staff - 38  
SROs in other Depts - 8\*  
ROs in Ops Staff - 29  
ROs in SRO Training - 6  
ROs in Training Department - 3

\*includes:

5 SROs in training staff  
1 SRO in Corrective Action Group  
1 SRO in Integrated Planning and Scheduling  
1 SRO in Nuclear Licensing

Workshifts:

Number of Operating Shifts: 5  
Number of Personnel on Each Shift:

	<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>	<u>OPERATIONS WORK CONTROL*</u>
UNIT ONE						
Shift Supervisor (SRO)	1	1	1	1	1	1
Unit Supervisor (SRO)	1	1	1	1	1	1
Reactor Operators (RO or SRO)	3	3	3	3	3	1
Reactor Plant Operators (Nonlicensed)	4	4	4	4	4	1
UNIT TWO						
Shift Supervisor (SRO)	1	1	1	1	1	
Unit Supervisor (SRO)	1	1	1	1	1	
Reactor Operators (RO or SRO)	3	3	3	3	3	
Reactor Plant Operators (Nonlicensed)	4	4	4	4	4	

\*Acts as fill-in for Shift Supervisor, Surveillance Coordinator, and additional surveillance support

Total persons in training for reactor plant operators (nonlicensed) and licensed operators: 50



South Texas Project

Operator Exams Administered by the Region:

Date of Exam	Number of Applicants	Passed/Percentage
9/92	9 SROs	9 SROs/100
	6 ROs	6 ROs/100
9/91	1 SRO	1 SRO/100
	11 ROs	11 ROs/100
9/90	11 SROs	11 SROs/100
	4 ROs	4 ROs/100
4/89	5 ROs	5 ROs/100
11/88	2 SROs	2 SROs/100
	12 ROs	7 ROs/58
5/88	17 ROs	16 ROs/94

Date of next scheduled exam: 9/93  
Number of Applicants: 9 SROs/6 ROs

Requalification Exams Administered by the Region

Date of Exam	Number of Applicants	Passed/Percentage
4/90	2 SROs	2 SROs/100
	2 ROs	2 ROs/100
3/90	14 SROs	12 SROs/86
	14 ROs	12 ROs/86
2/92	12 SROs	12 SROs/100
	16 ROs	16 ROs/100

Requalification examination scheduled: 2/94

Plant Simulator

The plant simulator is located in the training center building approximately 0.5 miles east of the power block. It is fully operational and necessary modifications to make it a plant duplicate were completed in May 1987. The plant simulator was certified on March 1, 1991. The licensee has contracted a major simulator software upgrade to be completed in 1995.

Systematic Assessment of Licensee Performance (SALP)

<u>Functional Areas</u>	<u>Rating Period</u>	<u>Rating Period</u>	<u>Trend</u>
	2/1/90	6/1/91	
	to	to	
	5/31/91	8/1/92	

## South Texas Project

Plant Operations	2	2	
Radiological Controls	1	1	
Maintenance/Surveillance	2	2	Declining
Emergency Preparedness	2	2	
Security	1	2	
Engineering/Technical Support	2	2	
Safety Assessment/Quality	1	2	

The Regional Administrator and the Director of the Office of Nuclear Reactor Regulation have agreed to extend the South Texas Project SALP period until 6-9 months following a unit startup. This was based on both units being in extended forced outages because of material and programmatic problems. The recent Diagnostic Evaluation Report discussed many weaknesses in the areas of operations, maintenance, engineering, and management. Root causes included failure of management to provide adequate support; ineffective management direction and oversight; ineffective utilization of the self-assessment and quality oversight functions; and ineffective root cause and corrective action processes. Licensee performance during the extended outage is being monitored by the South Texas Project Oversight Panel under Manual Chapter 0350. Startup of the first unit is not expected before December 1993.

## Escalated Enforcement Actions

A summary of recent escalated enforcement actions and regulatory concerns include the following:

- A Severity Level III violation with a civil penalty of \$75,000 was issued concerning licensee management's failure to inform licensed operators of a manual reactor trip surveillance deficiency and the failure to follow procedural requirements for issuing clarification of interpretation of plant Technical Specifications.
- A Severity Level III violation with a civil penalty of \$25,000 was issued concerning eight examples of failures to adhere to procedural requirements regarding self-verification. These eight examples primarily involved the failure to verify the correct unit, correct train, or correct component before conducting testing or maintenance activities.
- A Severity Level III violation with a civil penalty of \$75,000 was issued concerning the failure to take corrective actions for a failed motor on a motor-operated valve in the Unit 2 low head safety injection system (LHSI). The affected valve rendered one train of LHSI inoperable for approximately 18 months.
- Two Severity Level III violations with a combined civil penalty of \$325,000 were issued concerning problems identified during a special followup inspection stemming, in part, from an Augmented Inspection Team. This special inspection identified eight apparent violations,

## South Texas Project

including one in which the inappropriate voiding of a postmaintenance test on a Unit 1 emergency diesel generator resulted in its inoperability for 24 days and a second concerning an inadequate turbine-driven auxiliary feedwater pump (TDAFWP) surveillance test program that resulted in the Unit 1 TDAFWP being inoperable for 33 days.

### Investigation/Allegation Status

There are a total of 15 allegations open for the licensee. Several of these allegations have been referred to the Office of Investigation for further investigation and resolution. The open investigations/allegations include:

- RIV-92-A-0047, received on May 6, 1992. The Region IV allegations coordinator was contacted by an individual with a concern that the recent reorganization in the security program may have placed plant security in question by placing unqualified personnel in security positions. A separate concern was identified by the individual in that adequate compensatory measures were not available for identified weaknesses in surveillance systems. The alleger was interviewed during the week of May 18, 1992, by the Regional Allegations Coordinator; no immediate safety concerns were identified. An inspection effort by Region IV Division of Radiation Safety and Safeguards inspectors during the week of June 15, 1992, determined that a violation of NRC requirements had occurred, and the licensee was subsequently cited. Other alleger concerns were investigated and determined not to constitute violation of the regulations. In addition, the inspection acknowledged changes in the security organization but could not substantiate the allegers concerns as to whether the changes would hamper the reorganization efforts. Other concerns by the allegers were investigated by the Inspector General. All technical concerns have been resolved. A hearing before an Administrative Law Judge was conducted on August 26, 1993; the DOL hearing was suspended until November 1, 1993.
- RIV-92-A-0128, received November 17, 1992. Region IV was contacted by a former chemical operations operator (nonlicensed) with concerns about the manner that operators were maintaining station logs in that two standards exist for licensed operators and other licensee staff. Additional concerns include allegations that all night orders have been removed from operator logs and the licensee is attempting to coverup weaknesses in the maintenance of station logs. The technical issues have been resolved, with the issues not considered safety related. The Office of Investigation is reviewing an allegation of clearance order falsification.
- RIV-92-A-0142, received December 18, 1992, concerning plant security issues. An individual expressed concerns that compensatory measures were not being taken for surveillance cameras that were not operating correctly and that compensatory measures that were posted during an NRC inspection were removed following completion of the inspection. A

## South Texas Project

security inspection has reviewed the concerns and resolved the technical issues. The Office of Investigation is continuing the review.

- RIV-93-A-0036, received March 30, 1993, concerned licensee certification classes associated with the maintenance training program. Region IV has received no response other than the initial letter from the allegor. The allegor was asked for additional information and advised of their DOL rights via a letter, but no DOL complaint or response to the letter has been received. Region IV intends to close this item, and will re-open it if a DOL complaint or additional information is received.
- RIV-93-A-0038, concerned alleged threats by a licensee quality control (QC) inspector to a contract welder where the QC inspector would not pass welds performed by the contractor unless the welder performed personal work for the QC inspector. Other concerns included thefts of HL&P property by the QC inspector and the failure to document recent contamination events by the radiation protection department. The alleged failure to document recent contamination events was reviewed by Region IV and was not substantiated. The other issues have been referred to the Office of Investigation, which has determined that no further action is warranted. The Allegation Coordinator anticipated that this issue will be closed at the next available Allegation Review Panel Meeting.
- RIV-93-A-0040, concerned work issues, fitness-for-duty program violations, access to the protected area by illegal aliens, Labor Department violations, and OSHA violations. These issues have been referred to OSHA and the Office of Investigation, with the Office of Investigation planning no further action.
- RIV-93-A-0041, received on April 8, 1993, concerned 10 CFR Part 50, Appendix R, train separation issues. The allegor believed that separation criteria is not being provided sufficient consideration by the licensee. A recent inspection by the Division of Reactor Safety found that the licensee uses Thermo-Lag to maintain the train separation required by Regulatory Guide 1.75. A task interface agreement has been forwarded to the Office of Nuclear Reactor Regulation to obtain a staff position on the acceptability of this usage.
- RIV-93-A-0054, concerned a letter received by Region IV that expressed several concerns about the security organization and program. The letter also identified a potential scenario of events that depicted a potential threat. The issue was referred to the licensee for resolution.
- RIV-93-A-0063, received on May 20, 1993, addresses an allegor's concerns about the licensee's respiratory protection program and a separate allegation that the individual was not selected for a job because he had identified concerns about the respiratory protection program. A recent

## South Texas Project

Region IV inspection determined that the licensee's respiratory protection program was satisfactory, with the allegor's concerns being specifically addressed in the inspection. The allegation coordinator responded to the allegor in writing advising him of his DOL rights and requesting additional information. No response has been received from the allegor.

- RIV-93-A-0072, concerned alleged comments made by the Deputy Plant Manager that had the potential of creating a chilling effect on other employees. This issue was referred to the licensee (Group Vice President, Nuclear). The Deputy Plant Manager subsequently resigned. The licensee provided a written response dated September 8, 1993.
- RIV-93-A-0082, received on July 6, 1993, that concerned the Region III Allegation Coordinator being contacted by an individual that alleged that his termination from employment was related to having identified issues that the licensee did not want identified. No specific issues were provided to Region III. The Region IV Allegation Coordinator contacted the individual on August 2, 1993, for further details. The concerns were focused on the licensee's lubrication program. The senior resident inspector obtained station problem reports issued in June 1993 dealing with lubrication issues. The Office of Investigation will contact the allegor on the 10 CFR 50.7 aspects of the allegation.
- RIV-93-A-0087, received on July 20, 1993, concerned an allegation that, after a contamination incident that occurred 3-4 months ago during a night shift, the day shift was subsequently sent into the same area to work and they were also contaminated. In addition, no first aid was available on the evening shift where many hazardous activities occur. This issue will be reviewed by routine inspection by DRSS.
- An allegor contacted the Senior Resident Inspector with concerns that the South Texas Project Security Manager provided safeguards information to the labor board. The safeguards information related to the response times for security officers. The allegor is concerned that he would be laid off if the matter was discussed with security management. The information was reviewed by a Region IV security inspector on September 9, 1993, and it was determined that no safeguards information was contained in the transcript. The Allegations Coordinator will contact the allegor to determine if there are further issues or concerns.

## Emergency Preparedness

The licensee's implementation of the emergency preparedness program has demonstrated their ability to protect the health and safety of the public; however, several weaknesses were identified during the last emergency preparedness exercise. The weaknesses related to the failure to recognize plant conditions corresponding to a General Emergency; poor performance in

## South Texas Project

providing technical assessment, diagnosis, and mitigative activities; and for insufficient administrative staffing in the Technical Support Center and the failure to obtain additional staffing or to reassign the missing staffs' responsibilities. Another exercise weakness was identified for several problems associated with the issuance of complete and accurate notification messages. This was a repeat weakness from the previous exercise conducted in 1992.

The recent operational status inspection identified a violation involving failure to meet the requalification program requirements and an unresolved item involving continued failure to complete day shift accountability within the required time. In addition, two weaknesses were identified: failure to properly classify conditions corresponding to an Alert and failure to accurately calculate dose projections.

## Significant Licensee Accomplishments

The licensee has instituted a Shutdown Risk Assessment Group and has adopted industry recommendations for outage activities. The licensee improved their INPO maintenance training program and was removed from probationary status.

The licensee has announced a significant reorganization which became effective on August 31, 1993. The reorganization is intended to focus on operations and maintenance activities and to improve communications and individual ownership of the plant. Each unit will have a plant manager, an operations manager, a maintenance manager, and a work control manager. Craft employees will be assigned to a particular unit, with each craft crew having two supervisors. The two supervisors will alternate weeks between work preparation and field supervision.

## Plant Status

### Plant Operations:

Unit 1 restarted from its fifth refueling outage on December 28, 1992. The unit was shut down once for steam line pressure detector repairs in January 1993. On February 4, 1993, Unit 1 was shut down to resolve turbine-driven auxiliary feedwater pump problems. These problems, also common to Unit 2, in addition to other hardware and program implementation problems, have kept Unit 1 shut down to the present.

Unit 2 completed its second refueling outage on December 18, 1991. During the third fuel cycle, six reactor trips occurred (three were automatic and three were manual) because of nonsafety-related equipment problems. Recent trips were on December 27, 1992, when a steam generator feedwater regulating valve failed shut (operators inserted a manual trip prior to the automatic reactor trip setpoint); January 23, 1993, when a reactor trip occurred following a turbine trip when a common main turbine and steam generator feedwater pump turbine electrohydraulic control system pipe failed; and February 3, 1993, when a steam generator feedwater pump tripped which resulted in a manual

## South Texas Project

reactor trip due to low steam generator levels. During this February 3 trip, the turbine-driven auxiliary feedwater pump failed to operate properly. On February 27, 1993, Unit 2 entered its third refueling outage and is currently shut down.

### Recent Planned or Unplanned Nonrefueling Outages:

Unit 1 was shutdown (and remains shutdown) on February 4, 1993, following a number of problems encountered with turbine-driven auxiliary feedwater pump overspeed trips that occurred when the pump was required to start. Additional problems were encountered with motor-operated valves (MOVs) in the residual heat removal and low-head safety injection systems, reactor coolant system leakage from three steam generator manways, and other maintenance backlog problems. In addition, the licensee has decided to conduct eddy current testing on all of the unit's steam generator tubes. Presently the licensee is projecting restart in December 1993.

Unit 2 tripped on February 3, 1993, 24 days prior to a scheduled refueling outage. Because of difficulties resolving turbine-driven auxiliary feedwater pump overspeed trip problems, the unit did not restart but conducted extensive troubleshooting and corrective actions to return the pump to an operable status. On March 1, 1993, this testing was completed. The licensee is projecting restart of Unit 2 in April 1994.

### Refueling Outages:

Unit 1 entered its fourth refueling outage on September 19, 1992. The outage was planned for 62 days; however, it required 103 days to complete because of emergent emergency diesel generator maintenance problems, extensive MOV testing in response to operability concerns identified by the NRC, and a problem on restart with a leaking conoseal on a control rod drive mechanism. Activities completed during the refueling outage included:

- integrated leak rate testing,
- emergency diesel generator maintenance,
- essential cooling water system repairs,
- core offload,
- high pressure turbine gland modification,
- main condenser tube cleaning,
- sequential train outages, and
- MOV testing.

Unit 2 entered its third refueling outage on February 27, 1993. The outage was planned for 78 days; however, the outage will be extended for a significant period. Activities planned for completion during the outage included:

- 18-month reactor coolant pump motor inspections,
- sludge lancing of all steam generators,

## South Texas Project

- steam generator eddy current testing,
- main turbine low pressure gland repair,
- MOV testing,
- Low Pressure Turbine 21 rotor replacement,
- Emergency Diesel Generator 21 5-year maintenance,
- Emergency Diesel Generators 22 and 23 18-month inspection,
- implementation of 53 major modifications, and
- replacement of the main feedwater control system with solid-state equipment.

## Recent Plant Issues:

- Numerous violations of requirements and weaknesses in the licensee's corrective action program have been identified in routine resident inspector inspection reports, an Operational Safety Team Inspection completed on January 12, 1993, and a special inspection involving MOVs completed February 26, 1993.
- An AIT was dispatched to the site on February 5, 1993, to investigate the recurrent start failures of the turbine-driven auxiliary feedwater pumps due to overspeed trips. The AIT completed its inspection and held a public exit on February 24.
- The Office for Analysis and Evaluation of Operational Data conducted a diagnostic evaluation over a 3-week period in March and April 1993. This evaluation identified problems in the area of plant operations, maintenance and testing, and engineering support and found that weaknesses in management had contributed to these deficiencies.
- A recent issue regarding the loss of spent fuel cooling for 13 hours and operator performance issues associated with this event was the topic of a management meeting on July 30, 1993. Plant events caused by personnel errors have not been fully resolved by the licensee.
- The licensee has experienced many recent problems with emergency diesel generators. These problems stemmed from poor work practices, weak procedures, unexplained component failures, and failure to effectively use vendor information.
- There have been several problems and events that have resulted from various maintenance implementation weaknesses. In addition, weaknesses in the control and implementation of work activities has resulted in increased safety-related equipment unavailabilities.
- During several security inspections, a decline in performance in the security functional area was noted. Timely and long-term corrective actions in response to the violations were not always effective to correct the root cause of the problem.



## South Texas Project

### South Texas Project Significant Design Information

#### Reactor Integrity:

- Reactor pressure vessel: low alloy steel manufactured to ASME Section III, 1971 Ed. requirements
- Reactor Coolant Pressure boundary: bounded by the reactor vessel, pressurizer, steam generators (four), reactor coolant pumps (four), second isolation valve on safety injection, charging, and residual heat removal systems.

#### Reactor Shutdown:

- Reactor Protection System: solid state protection system powered by 120 VAC vital power
- Anticipated Transient Without Scram (ATWS) Protection: The ATWS Mitigation System Actuation Circuitry (AMSAC) automatically initiates auxiliary feedwater flow, initiates a turbine trip, and isolates the steam generator blowdown and sampling lines. The AMSAC initiates when three of four steam generators experience low feedwater flow and turbine impulse pressure signals are above 40 percent reactor power.
- Remote Shutdown Facilities: An auxiliary shutdown panel is located in each unit's mechanical electrical auxiliary building. The panel is separated by a 3-hour fire rated wall.

#### Core Cooling:

- Feedwater System: three turbine-driven, 40 percent capacity, pumps and one motor-driven startup feedwater pump
- Turbine bypass capacity: 42 percent of rated steam flow
- Auxiliary Feedwater System:  
Three motor-driven, 50 percent capacity, pumps  
One turbine-driven, 50 percent capacity, pump
- ECCS: Three high head safety injection pumps  
Three low head safety injection pumps  
Three containment spray pumps  
Three safety injection accumulators
- Decay Heat Removal: three loops of residual heat removal

## South Texas Project

### Containment:

- Pressure control/heat removal: the containment consists of a prestressed reinforced concrete, cylindrical structure with a hemispherical dome. The structure is lined with carbon steel plates and is designed to 56.5 psig. Three containment spray pumps and six safety-related air coolers control temperature and pressure following a loss of coolant accident.
- Hydrogen Control: controlled by recombiners

### Electrical Power:

- Offsite AC: eight 345 kV sources
- Onsite AC: three Cooper-Bessemer emergency diesel generators for each unit supply power to Trains A, B, and C safety-related components. Each diesel is rated for 5500 kW.
- DC Power: four sets of batteries powering four independent Class 1E 125-VDC subsystems
- Station Blackout resolution status: South Texas Project meets the guidance of NUMARC 87-00 (Reg Guide 1.155) as an alternate AC plant. They are classified as an 8-hour coping plant.

### Safety-Related Cooling Water Systems:

- Service water: three loops of essential service water. Each loop takes suction from the common ultimate heat sink in the essential cooling pond. The essential service water cools safety-related loads during normal plant operations. An open service water system cools nonsafety-related equipment, including turbine building components. The service water system takes suction from the cooling lake and returns to the lake.
- Closed cooling water: there are three 100 percent capacity operating loops of component cooling water.
- Spent Fuel Storage: spent fuel capacity will not be reached until 2031.

### Status of Physical Plant

#### A. Major Aging Issues

Unit 1 began commercial operation on August 25, 1988, and Unit 2 began commercial operation on June 19, 1989; however, because of the long construction time, these plants are not considered to be plants with new

## South Texas Project

equipment. Some control equipment is outdated and some spare parts are difficult or impossible to obtain.

### B. Issues of Interest

The major issues of interest are the recurring problems with the emergency diesel generators, dealloying of the essential cooling water system, large maintenance and engineering backlogs, and plant events and transients caused by balance-of-plant equipment failures and personnel errors.

### AEOD Analysis of Operational Data

None for this application

### NRR Operating Reactor Assessment

#### **CURRENT AS OF SEPTEMBER 1, 1993**

A request by Mr. T. Saporito in accordance with 10 CFR 2.206 to shut down the facility has been acknowledged and denied. The final Director's Decision is still under review.

The following items reflect the status of significant licensing actions related to the South Texas Project. Note: this list does not represent all the licensing actions currently under review but only those that could arise during the Chairman's visit.

- Review of Summary Report (52 months)

Estimated licensing action complete date: August 30, 1993  
Status: under final review

The licensee requested approval of its Probabilistic Safety Assessment for use of risk analysis techniques in regulatory and licensing decisions. Portions of this were previously approved on January 21, 1992. The Office of Nuclear Regulatory Research's Probabilistic Risk Analysis Branch and the Office of Nuclear Reactor Regulation's Probabilistic Safety Assessment Branch have recently completed its review of the final portion of the South Texas Project Probabilistic Safety Assessment for External Events. The Projects organization is preparing the safety evaluation for transmittal to the licensee. Note: this does not substitute for an IPEEE review, although this will help establish a basis for that review.

- AOT/STI TS Changes Based on PRA Analysis (42 months)

Estimated licensing action complete date: December 1, 1993

## South Texas Project

Status: awaiting licensee's responses to request for additional information and subsequent review of responses by ENL/RES

Originally, this one submittal from the licensee contained 22 individual changes regarding extending the allowed outage time and surveillance test intervals for various Technical Specifications based on the three train systems at the South Texas Project. The licensee reduced the number to 16, of which 11 are PRA-based and 5 are qualitative in nature (although these 5 deal with the same type of subject matter). The reduction to 16 changes was the result of the staff's review, which determined that the increase in the core damage frequency was unacceptably high. (Refer to attached Table F.1)

The request for additional information was dated May 19, 1993, and the response is expected in August. RES and its contractor, Brookhaven National Laboratory, are working with representatives of NRR (Technical Specifications Branch and Project Directorate IV-2). On August 3, 1993, the staff met with the contractor to go over tentative results and the draft report, although it is recognized that the material may change as a result of the licensee's responses.

- Bulletin 88-08, Thermal Stresses in Pipe Connected to RCS (59 months)

Estimated licensing action complete date: TBD

Status: licensee reviewing temporary instrumentation installation

This is a staff initiative. Currently, the licensee is not in compliance with the bulletin as a result of removing temporary instrumentation. This action by the licensee was based on analytical studies, which was not reviewed and approved by staff. A meeting has been proposed to review this information. Staff would like to see the instrumentation reinstalled prior to startup. Licensee has yet to make a decision on its approach to this.

- Generic Letter 90-06 (GI-70): PORV & Block Valve Reliability (32 months)
- Generic Letter 90-06 (GI-94): LTOP (32 months)

Estimated licensing action complete date: October 31, 1993

Status: awaiting licensee response

This is a staff initiative to resolve two generic issues. The licensee's response to the generic letter regarding PORV and block valve reliability and low temperature over-pressure protection did not conform to the NRC guidelines in the area of PORV testing. After discussions with the staff, the licensee agreed to revise their submittal to conform to the generic letter but subsequently decided to stay with their original argument that this requirement should not apply to South Texas.

## South Texas Project

The technical reviewers did not agree with this argument and the licensee finally agreed to revise the test procedures to the staff's satisfaction. The staff is currently waiting for a commitment letter (with TS modification). This is the final issue that must be resolved before these amendments can be issued. The licensee's response is expected in September. NRR's work has been essentially completed, except for this open item.

- Generic Letter 88-20, IPE (12 months)

Estimated licensing action complete date: August 28, 1994  
Status: under staff review

This is a staff initiative. The results of the Individual Plant Examination show a core damage frequency of  $4.4E-5$ . No single accident sequence was found to dominate the core damage frequency. The top ranking sequence, a loss of electrical auxiliary building HVAC resulting in an internally induced station blackout and failure of the positive displacement pumps, contributes approximately 8.6 percent to the total core damage frequency. In considering the contribution of specific initiating events to the core damage frequency, the largest contributor is the loss of offsite power (35 percent) followed by the loss of HVAC in the electrical-auxiliary building (20 percent).

- Generic Letter 88-20, Supplement 4, IPEEE (20 months)

Estimated licensing action complete date: January 30, 1996  
Status: under staff review

This is a staff initiative. External events contribute about 3 percent to the core damage frequency. The licensee submitted an IPEEE-type approach as noted previously, which essentially counted as its IPEEE submittal. Since this arrived well in advance of the requested date, this item is "artificially" aged, which reflects an early application date.

## Public Issues

The South Texas Project Oversight Panel has been conducting monthly public meetings with the licensee at the site. Following these meetings, the Regional Administrator has responded to press inquiries. On September 9 the Deputy Regional Administrator briefed the Texas Public Utilities Commission and the City Council of the City of Austin. The NRC Whistleblower Task Team conducted public meetings in Bay City on September 21-22.

SITE NAME: SOUTH TEXAS PROJECT

UNIT NAME: SOUTH TEXAS I  
SALP CYCLE ID

DOCKET NUMBER: 050-00498  
SALP START DATE: / /  
SALP END DATE: / /

REPORT FROM DATE:  
PROCEDURE STS: ALL

REPORT TO DATE:  
ORG CD: ALL

SALP FUNCTIONAL AREA: OPS NAME: OPERATIONS

SALP RATING :

PROC ID	PERIOD	TITLE/COMMENTS	IPE	PRI	ORG	EMP	STS	TARGET DT	FRQ	PLND HRS	ACTL HRS	IR #	COMPLTN DT	
64704	-01	010	FIRE PROTECTION	CO		4614	ASI	C 03/08/1993	O	12.50	19.00	93009	03/13/1993	
71707	-01	010	MONTHLY RESIDENT	CO		4205	JJT	C 08/02/1992	M	59.00	67.50	92026	09/12/1992	
71707	-02	010	MONTHLY RESIDENT	CO		4205	JJT	C 09/13/1992	M	59.00	61.20	92029	10/24/1992	
71707	-03	010	MONTHLY RESIDENT	CO		4205	JJT	C 10/25/1992	M	59.00	59.00	92032		
71707	-04	010	MONTHLY RESIDENT	CO		4205	JJT	C 12/06/1992	M	59.00	121.80	93011	04/10/1993	
71707	-05	010	MONTHLY RESIDENT	CO		4205	JJT	C 01/17/1993	M	59.00	48.00	93004		
71707	-06	010	MONTHLY RESIDENT	CO		4205	JJT	C 02/28/1993	M	59.00	70.00	93015	04/17/1993	
71707	-07	010	MONTHLY RESIDENT	CO		4205	JJT	C 04/11/1993	M	59.00	30.00	93015	05/22/1993	
71707	-08	010	MONTHLY RESIDENT	CO		4205	JJT	C 05/23/1993	M	59.00	70.00	93020	07/03/1993	
71707	-09	010	MONTHLY RESIDENT	CO		4202	DOL	C 07/04/1993	M	59.00	70.50	93024	08/14/1993	
71707	-10	010	MONTHLY RESIDENT	CO		4202	DOL	C 08/15/1993	M	59.00	57.50	93030	09/25/1993	
71707	-11	010	MONTHLY RESIDENT	CO		4202	DOL	M 09/26/1993	M	59.00	14.50	93036		
71707	-13	010	MONTHLY RESIDENT	CO		4202	DOL	N 11/07/1993	M	59.00	.00			
71707	-14	010	MONTHLY RESIDENT	CO		4202	DOL	N 12/19/1993	M	59.00	.00			
71707	-15	010	MONTHLY RESIDENT	CO		4202	DOL	N 01/30/1994	M	59.00	.00			
71707	-16	010	MONTHLY RESIDENT	CO		4202	DOL	N 03/13/1994	M	59.00	.00			
71707	-17	010	MONTHLY RESIDENT	CO		4202	DOL	N 04/24/1994	M	49.00	.00			
71707	-18	010	MONTHLY RESIDENT	CO		4202	DOL	N 05/29/1994	M	49.00	.00			
71710	-01	010	ESF SYSTEM WALKDOWN	CO		4205	JJT	C 12/01/1992	S	10.00	10.00	92032	12/05/1992	
71710	-02	010	ESF SYSTEM WALKDOWN	CO		4202	DOL	M 07/01/1993	S	10.00	8.00	93015		
71710	-03	010	ESF SYSTEM WALKDOWN	CO		4202	DOL	N 12/19/1993	S	10.00	.00			
71710	-04	010	ESF SYSTEM WALKDOWN	CO		4202	DOL	N 04/24/1994	S	10.00	.00			
93702	-01	010	ONSITE RSPNSE TO EVNT	CO		4202	DOL	M 07/02/1994	M	39.00	24.00	92026	09/12/1992	
60705	-01	010	PREPARATION FOR REFUELING	RI		4205	JJT	C 09/01/1992	*	12.00	4.00	92036	01/16/1993	
60710	-01	010	REFUELING ACTIVITIES	RI		4205	JJT	C 09/30/1992	*	12.00	28.00	92032	12/05/1992	
64704	-02	010	FIRE PROTECTION	RI		4613		R 07/02/1994	O	.00	.00			
71500	-01	010	BALANCE OF PLANT	RI		4614		R 07/02/1994	*	.00	.00			
71707	-12	010	MONTHLY RESIDENT	RI		4202	DOL	M 07/02/1994	M	250.00	162.00	93030		
71710	-05	010	ESF SYSTEM WALKDOWN	RI		4202	DOL	R 07/02/1994	S	.00	.00			
71715	-01	010	SUSTAINED OPS OBSERVATION	RI		4202	DOL	R 07/02/1994	*	.00	.00			
93702	-03	010	PROMPT ONSITE REPNSE EVNT	RI		4202	DOL	R 07/02/1994	M	.00	.00			
93702	-02	010	ONSITE RSPNSE TO EVNT	RR		4202	DOL	M 07/02/1994	M	.00	15.00	93024		
93802	-02	010	OSTI	RT		4205	M3S	C 11/30/1992	*	250.00	272.70	92035	01/16/1993	
2515/117-01	010		LINCESD OP REQUAL PROG EVALUAT	SI		4613	JPQ	C 01/11/1993	*	96.00	51.00	93001	01/16/1993	
TOTAL:											1,694.50	1,263.70		

\* - DENOTES UNPLANNED PROCEDURE

+ - DENOTES GREATER THAN 45 DAYS BEYOND LAST TARGET DATE

SITE NAME: SOUTH TEXAS PROJECT

UNIT NAME: SOUTH TEXAS 1

DOCKET NUMBER: 050-00498

REPORT FROM DATE:

REPORT TO DATE:

SALP CYCLE ID:

SALP START DATE: / /

SALP END DATE: / /

PROCEDURE STS: ALL

ORG CD: ALL

SALP FUNCTIONAL AREA: RADCON

NAME: RADIOLOGICAL CONTROLS

SALP RATING:

PROC ID	PERIOD	TITLE/COMMENTS	IPE	PRI	ORG	EMP	STS	TARGET DT	FRQ	PLND HRS	ACTL HRS	IR #	COMPLTN DT
83750	-01 010	OCCUPATIONAL EXPOSURE	CO		4304	BOM	C	10/26/1992	C	52 50	48 00	93018	05/22/1993
84750	-01 010	EFFLUENTS, WATER CHEMB CM	CO		4304	BOM	C	07/02/1994	C	52 50	21 50	93026	09/04/1993
86750	-01 010	SOLID RADWASTE& TRANSPORT	CO		4304	BOM	C	07/02/1994	C	14 00	20 00	93029	09/04/1993

TOTAL: 119 00 89 50

\* - DENOTES UNPLANNED PROCEDURE

\* - DENOTES GREATER THAN 45 DAYS BEYOND LAST TARGET DATE

SITE NAME: SOUTH TEXAS PROJECT

UNIT NAME: SOUTH TEXAS 1  
SALP CYCLE ID:DOCKET NUMBER: 050-00498  
SALP START DATE: / /  
SALP END DATE: / /REPORT FROM DATE:  
PROCEDURE STS: ALLREPORT TO DATE:  
ORG CD: ALL

SALP FUNCTIONAL AREA: MS

NAME: MAINTENANCE/SURVEILLANCE

SALP RATING:

PROC ID	PERIOD	TITLE/COMMENTS	IPE	PRI	ORG	EMP	STS	TARGET DT	FRQ	PLND HRS	ACTL HRS	IR #	COMPLTN DT
61726	-01	010	SURVEILLANCE	OBSERVATION	CO	4205	JJT	C	08/02/1992	B	7.50	7.00	92026
61726	-02	010	SURVEILLANCE	OBSERVATION	CO	4205	JJT	C	09/13/1992	B	7.50	4.00	92029
61726	-03	010	SURVEILLANCE	OBSERVATION	CO	4205	JJT	C	10/25/1992	B	7.50	8.00	92032
61726	-04	010	SURVEILLANCE	OBSERVATION	CO	4202	DOL	M	12/06/1992	B	7.50	3.00	92036
61726	-05	010	SURVEILLANCE	OBSERVATION	CO	4202	DOL	N	01/17/1993	B	7.50	.00	
61726	-06	010	SURVEILLANCE	OBSERVATION	CO	4205	JJT	C	02/28/1993	B	7.50	.10	93015 04/17/1993
61726	-07	010	SURVEILLANCE	OBSERVATION	CO	4205	JJT	C	04/11/1993	B	7.50	3.90	93015 05/22/1993
61726	-08	010	SURVEILLANCE	OBSERVATION	CO	4205	JJT	C	05/23/1993	B	7.50	3.10	93020 07/03/1993
61726	-09	010	SURVEILLANCE	OBSERVATION	CO	4202	DOL	C	07/04/1993	B	7.50	.50	93024 08/14/1993
61726	-10	010	SURVEILLANCE	OBSERVATION	CO	4202	DOL	C	08/15/1993	B	7.50	18.00	93030 09/25/1993
61726	-11	010	SURVEILLANCE	OBSERVATION	CO	4202	DOL	N	09/26/1993	B	7.50	.00	
61726	-12	010	SURVEILLANCE	OBSERVATION	CO	4202	DOL	N	11/07/1993	B	7.50	.00	
61726	-13	010	SURVEILLANCE	OBSERVATION	CO	4202	DOL	N	12/19/1993	B	7.50	.00	
61726	-14	010	SURVEILLANCE	OBSERVATION	CO	4202	DOL	N	01/30/1994	B	7.50	.00	
61726	-15	010	SURVEILLANCE	OBSERVATION	CO	4202	DOL	N	03/13/1994	B	7.50	.00	
61726	-16	010	SURVEILLANCE	OBSERVATION	CO	4202	DOL	N	04/24/1994	B	6.50	.00	
61726	-17	010	SURVEILLANCE	OBSERVATION	CO	4202	DOL	N	05/29/1994	B	6.50	.00	
62703	-01	010	MAINTENANCE	OBSERVATION	CO	4205	JJT	C	08/02/1992	M	11.25	12.00	92026 09/12/1992
62703	-02	010	MAINTENANCE	OBSERVATION	CO	4205	JJT	C	09/13/1992	M	11.25	10.00	92029
62703	-03	010	MAINTENANCE	OBSERVATION	CO	4205	JJT	C	10/25/1992	M	11.25	11.00	92032
62703	-04	010	MAINTENANCE	OBSERVATION	CO	4205	JJT	C	12/06/1992	M	11.25	20.50	92036
62703	-05	010	MAINTENANCE	OBSERVATION	CO	4205	JJT	C	01/17/1993	M	11.25	8.00	93004
62703	-06	010	MAINTENANCE	OBSERVATION	CO	4205	JJT	C	02/28/1993	M	11.25	25.60	93011 04/10/1993
62703	-07	010	MAINTENANCE	OBSERVATION	CO	4205	JJT	C	04/11/1993	M	11.25	10.00	93015 05/22/1993
62703	-08	010	MAINTENANCE	OBSERVATION	CO	4205	JJT	C	05/23/1993	M	11.25	23.50	93020 07/03/1993
62703	-09	010	MAINTENANCE	OBSERVATION	CO	4202	DOL	C	07/04/1993	M	11.25	3.00	93024 08/14/1993
62703	-10	010	MAINTENANCE	OBSERVATION	CO	4202	DOL	C	08/15/1993	M	11.25	31.00	93030 09/25/1993
62703	-11	010	MAINTENANCE	OBSERVATION	CO	4202	DOL	M	09/26/1993	M	11.25	5.00	93036
62703	-12	010	MAINTENANCE	OBSERVATION	CO	4202	DOL	N	11/07/1993	M	11.25	.00	
62703	-13	010	MAINTENANCE	OBSERVATION	CO	4202	DOL	N	12/19/1993	M	11.25	.00	
62703	-15	010	MAINTENANCE	OBSERVATION	CO	4202	DOL	N	01/30/1994	M	11.25	.00	
62703	-16	010	MAINTENANCE	OBSERVATION	CO	4202	DOL	N	03/13/1994	M	11.25	.00	
62703	-17	010	MAINTENANCE	OBSERVATION	CO	4202	DOL	N	04/24/1994	M	9.50	.00	
62703	-18	010	MAINTENANCE	OBSERVATION	CO	4202	DOL	N	05/29/1994	M	9.50	.00	
62703	-19	010	MAINTENANCE	OBSERVATION	CO	4202	DOL	N	09/28/1992	C	16.00	19.00	92028 10/03/1992
73753	-01	010	ISI - OBSERVATIONS		CO	4612	TXS	C					
61701	-02	010	COMPLEX SURVEILLANCE		0A	4612	DLK	C	07/02/1994	*	.00	9.00	92036 01/09/1993
49001	-01	010	EROSION/CORROSION PRGMS		RI	4612	LKG	C	12/14/1992	*	35.00	34.00	92033 12/19/1992
61700	-01	010	SURVEILLANCE PROCEDURES		RI	4202	DOL	R	07/02/1994	*	.00	.00	

\* - DENOTES UNPLANNED PROCEDURE

+ - DENOTES GREATER THAN 45 DAYS BEYOND LAST TARGET DATE



SITE NAME: SOUTH TEXAS PROJECT

UNIT NAME: SOUTH TEXAS 1  
SALP CYCLE ID:DOCKET NUMBER: 050-00498  
SALP START DATE: / /  
SALP END DATE: / /REPORT FROM DATE:  
PROCEDURE STS: ALLREPORT TO DATE  
ORG CD: ALL

SALP FUNCTIONAL AREA: MS

NAME: MAINTENANCE/SURVEILLANCE

SALP RATING

PROC ID	PERIOD	TITLE/COMMENTS	IPE	PRI	ORG	EMP	STS	TARGET DT	FRQ	PLND HRS	ACTL HRS	IR #	COMPLTN DT	
61701	-01	010	COMPLEX SURVEILLANCE	RI		4205	JJT	C 08/02/1992	*	20.00	7.00	92032		
61701	-03	010	COMPLEX SURVEILLANCE	RI		4202	DOL	R 07/02/1994	*	.00	.00			
61726	-18	010	SURVEILLANCE OBSERVATION	RI		4202	DOL	R 07/02/1994	B	.00	.00			
62700	-01	010	MAINTENANCE PRACTICES	RI		4612	TXS	C 08/31/1992	*	15.00	15.00	92027	09/05/1992	
62700	-02	010	MAINTENANCE PRACTICES	RI		4205	M3S	R 06/21/1993	*	50.00	9.00	93008		
62700	-03	010	MAINTENANCE PRACTICES	RI		4205	M3S	R 03/08/1993	*	50.00	50.50	93005		
62700	-04	010	MAINTENANCE PRACTICES	RI		4205	M3S	R 01/18/1993	*	15.00	12.00	93003		
62703	-12	010	MAINTENANCE OBSERVATION	RI		4202	DOL	M 07/02/1994	M	30.00	21.00	92032		
62703	-20	010	MAINTENANCE OBSERVATION	RI		4202	DOL	R 07/02/1994	M	.00	.00			
62704	-01	010	INSTRUMENT MAINTENANCE	RI		4611		R 07/02/1994	*	.00	.00			
62705	-01	010	ELECTRICAL MAINTENANCE	RI		4611		R 07/02/1994	*	.00	.00			
73753	-02	010	ISI - OBSERVATIONS	RI		4612	TXS	C 09/28/1992	C	16.00	20.00	92028	10/03/1992	
73755	-01	010	ISI - DATA REVIEW	RI		4600	IAB	C 08/10/1993	*	37.00	50.50	93028		
73756	-01	010	IST OF PUMPS & VALVES	RI		4612	DIP	R 07/02/1994	*	.00	.00			
79501	-01	010	RX WATER CHEM CONTROL	RI		4600	IAB	P 08/10/1993	*	9.00	4.50	93028	08/28/1993	
79502	-01	010	PLANT SYSTEMS - CHEMISTRY	RI		4600	IAB	P 08/10/1993	*	9.00	4.50	93028	08/28/1993	
62700	-05	010	MAINTENANCE PRACTICES	RR		4611	CZP	M 07/02/1994	*	.00	40.00	93013		
62703	-14	010	MAINTENANCE OBSERVATION	RR		4202	DOL	M 07/02/1994	M	15.00	1.50	93002		
2515/110-01		010	PRFMNCE OF S/R CV	SI		4612	LEE	C 08/23/1993	*	54.00	53.00	93027	08/28/1993	
TOTAL:											684.25	557.70		

\* - DENOTES UNPLANNED PROCEDURE

+ - DENOTES GREATER THAN 45 DAYS BEYOND LAST TARGET DATE

SITE NAME: SOUTH TEXAS PROJECT

UNIT NAME: SOUTH TEXAS I  
SALP CYCLE ID:

DOCKET NUMBER: 050-00498

REPORT FROM DATE:

REPORT TO DATE:

SALP START DATE: / /

SALP END DATE: / /

PROCEDURE STS: ALL

ORG CD: ALL

SALP FUNCTIONAL AREA: EP

NAME: EMERGENCY PREPAREDNESS

SALP RATING:

PROC ID	PERIOD	TITLE/COMMENTS	IPE	PRI	ORG	EMP	STS	TARGET DT	FRQ	PLND HRS	ACTL HRS	IR #	COMPLTN DT
82301	-01	010	EP EXERCISE	CO	4304	DSE	C	06/07/1993	Y	27.00	34.20	93017	06/12/1993
82302	-01	010	EP SCENARIO	CO	4304	BOM	C	09/11/1993	Y	6.00	10.00	93017	05/29/1993
82701	-01	010	EP PROGRAM	CO	4304	BOM	C	09/11/1993	C	17.50	20.50	93025	08/07/1993
82205	-01	010	STAFFING & AUGMENTATION	RI	4304	BOM	R	07/02/1994	*	8.00	.00		
82301	-02	010	EP EXERCISE	RI	4304	DSE	N	06/07/1993	Y	28.00	.00		
82701	-02	010	EP PROGRAM	RI	4613	BOM	C	07/02/1994	C	14.00	6.50	93025	08/07/1993
TOTAL										100.50	71.20		

\* - DENOTES UNPLANNED PROCEDURE

+ - DENOTES GREATER THAN 45 DAYS BEYOND LAST TARGET DATE

SITE NAME: SOUTH TEXAS PROJECT

UNIT NAME: SOUTH TEXAS I

DOCKET NUMBER: 050-00498

REPORT FROM DATE:

REPORT TO DATE:

SALP CYCLE ID:

SALP START DATE: / /

SALP END DATE: / /

PROCEDURE STS: ALL

ORG CD: ALL

SALP FUNCTIONAL AREA: SEC

NAME: SECURITY

SALP RATING

PRG ID	PERIOD	TITLE/COMMENTS	IPE	PRI	ORG	EMP	STS	TARGET DT	FRQ	PLND HRS	ACTL HRS	IR #	COMPLTN DT
81700	-01	010	PHYSICAL SECURITY PROGRAM	CO		4304	BOM	M 11/16/1992	C	56.00	29.00	93023	
81018	-01	010	SECURITY PLAN & PROCEDURES	RI		4304	TKD	M 12/06/1993		.00	2.00	93023	
81018	-02	010	SECURITY PLAN & PROCEDURES	RI		4304	TKD	M 12/06/1993	*	8.00	1.00	92034	
81042	-01	010	TESTING AND MAINTENANCE	RI		4304	TKD	R 07/12/1993		.00	1.50	93016	
81042	-02	010	TESTING AND MAINTENANCE	RI		4304	TKD	R 07/12/1993	*	5.00	2.50	92034	
81058	-01	010	SECURITY POWER SUPPLY	RI		4304	TKD	C 07/02/1994		.00	.50	93016	04/17/1993
81058	-02	010	SECURITY POWER SUPPLY	RI		4304	TKD	M 12/06/1993	*	2.00	2.00	93023	
81064	-01*	010	COMPENSATORY MEASURES	RI		4304	TKD	C		.00	1.50	93002	01/30/1993
81064	-02	010	COMPENSATORY MEASURES	RI		4304	TKD	M 12/06/1993	*	8.00	4.00	93023	
81066	-01	010	ASSESSMENT AIDS	RI		4304	TKD	C 07/02/1994		.00	2.00	93002	01/30/1993
81066	-02	010	ASSESSMENT AIDS	RI		4304	TKD	M 12/06/1993	*	8.00	4.00	93023	
TOTAL:										87.00	49.00		

\* - DENOTES UNPLANNED PROCEDURE

+ - DENOTES GREATER THAN 45 DAYS BEYOND LAST TARGET DATE

SITE NAME: SOUTH TEXAS PROJECT

UNIT NAME: SOUTH TEXAS 1  
SALP CYCLE ID:

SALP START DATE / /

DOCKET NUMBER: 050-00498

SALP END DATE: / /

REPORT FROM DATE

PROCEDURE STS ALL

REPORT TO DATE:

ORG CD: ALL

SALP FUNCTIONAL AREA: ETS-0 NAME ENGINEERING/TECHNICAL SUPPORT - OPERATIONAL

SALP RATING :

PROC ID	PERIOD	TITLE/COMMENTS	IPE	PRI	ORG	EMP	STS	TARGET DT	FRQ	PLND	HRS	ACTL HRS	IR #	COMPLTN DT
41500	-01*	010	NON-OPERATOR TRAINING	AF	4612	RSU	C				00	23.00	92033	11/21/1992
37700	-01	010	DESIGN CHANGES & MODS	CO	4611	TEW	R	07/02/1994	C	30	00	.00		
37700	-02	010	DESIGN CHANGES & MODS	RI	4611	TEW	N	07/02/1994	C	18	00	.00		
37701	-01	010	MODS NEEDING NRC APPROVAL	RI	4611		R	07/02/1994	*		00	.00		
37828	-01	010	INSTAL & TEST MODS	RI	4613		R	07/02/1994	*		00	.00		
72701	-01	010	MODIFICATION TESTING	RI	4613		R	07/02/1994	*		00	.00		
2515/109-01	010	MOV TESTING - GL 89-10	SI	4611	MUR	M	07/02/1994	*		195	00	130.00	93006	
TOTAL :											243.00	153.00		

\* - DENOTES UNPLANNED PROCEDURE

+ - DENOTES GREATER THAN 45 DAYS BEYOND LAST TARGET DATE

SITE NAME SOUTH TEXAS PROJECT

UNIT NAME SOUTH TEXAS 1 DOCKET NUMBER: 050-00498 REPORT FROM DATE: REPORT TO DATE:  
SALP CYCLE ID SALP START DATE: / / SALP END DATE: / / PROCEDURE STS: ALL ORG CD: ALL

SALP FUNCTIONAL AREA: SAQV-0 NAME: SAFETY ASSESSMENT/QUALITY VERIFICATION - OPERATIONAL SALP RATING:

PROC ID	PERIOD	TITLE/COMMENTS	IPE	PRI	ORG	EMP	STS	TARGET DT	FRQ	PLND HRS	ACTL HRS	IR #	COMPLTN DT
92702	02	010	CORCTVE ACTNS VIOL & DEV	AF	4000	WDJ	M	07/02/1994	*	.00	8.00	93016	
40500	01	010	SAFETY ASSESSMENT	CD	4614		R	09/11/1993	C	20.00	.00		
35702	01	010	QC/QUALITY VERIFICATION	RI	4602		R	07/02/1994	*	.00	.00		
38701	01	010	PROCUREMENT PROGRAM	RI	4612		R	07/02/1994	*	.00	.00		
38702	01	010	RECEIPT & STORAGE	RI	4612		R	07/02/1994	*	.00	.00		
39702	01	010	DOCUMENT CONTROL PROGRAM	RI	4612		R	07/02/1994	*	.00	.00		
40704	01	010	AUDIT IMPLEMENTATION	RI	4612		R	07/02/1994	*	.00	.00		
90700	01	010	FDBK OP EXP INFO OP PWR R	RI	4202		R	07/02/1994	*	.00	.00		
92700	01	010	ONSITE LER REVIEW	RI	4202	DOL	M	07/02/1994	*	100.00	63.50	93020	
92701	01	010	OPEN ITEM FOLLOWUP	RI	4000	WDJ	M	07/02/1994	*	100.00	130.30	92030	11/21/1992
92701	02	010	OPEN ITEM FOLLOWUP	RI	4000	WDJ	M	07/02/1994	*	35.00	51.50	93014	
92701	03	010	OPEN ITEM FOLLOWUP	RI	4614	MMN	N	02/01/1994	*	35.00	.00		
			COMMERCIAL GRADE FOLLOWUP										
92702	01	010	CORCTVE ACTNS VIOL & DEV	RI	4000	WDJ	M	07/02/1994	*	50.00	29.50	93020	
92720	01	010	CORRECTIVE ACTION PROGRAM	RI	4614		R	07/02/1994	*	.00	.00		
93804	01	010	PRA TEAM	RI	4614		R	07/02/1994	*	.00	.00		
94702	01	010	LICENSEE/NRR MEETINGS	RI	4202	WDJ	N	07/02/1994	*	25.00	.00		
52700	02	010	ONSITE LER REVIEW	RR	4202	DOL	M	07/02/1994	*	.00	13.50	93020	
92702	03	010	CORCTVE ACTNS VIOL & DEV	RR	4000	WDJ	M	07/02/1994	*	.00	4.00	93020	
2515/113-01	010		RELIABLE DHR DURING OUTGS	SI	4205	JIT	C	10/01/1992	*	24.00	6.00	92029	10/24/1992
TOTAL:										389.00	306.30		

\* - DENOTES UNPLANNED PROCEDURE

+ - DENOTES GREATER THAN 45 DAYS BEYOND LAST TARGET DATE

MASTER INSPECTION PLAN  
BY SALP FUNCTIONAL AREA  
SORTED BY FNCTL AREA/TYPE CD/PROC

MIPC0002  
SITE NAME: SOUTH TEXAS PROJECT  
UNIT NAME: SOUTH TEXAS 1  
SALP CYCLE ID:

DOCKET NUMBER: 050-00498  
SALP END DATE: / /  
REPORT FROM DATE: / /  
PROCEDURE STS: ALL

PROC ID	PERIOD	TITLE/COMMENTS	OTHER SPECIAL AREA FOR OPERATIONS/STARTUP TESTING	NAME	OTHER SPECIAL AREA FOR OPERATIONS/STARTUP TESTING	EMP STS	TARGET DT	FRQ	PLND HRS	ALL	REPORT TO DATE:				
											ORG CD: ALL				
											SALP RATING:				
											ACTL HRS	IR #	COMPLTN DT		
30702	-01	010	MANAGEMENT MEETINGS			M3S	C	07/02/1994	*	10	00	4	50	92036	
93800	-01	010	AIT			1RL	C			00		151	00	93007	
93801	-01	010	SSFI			4514	R	07/02/1994	*	00		00		00	
2500/028-01	010		EMPLOYEE CONCERNS PROGRAMS			4202	DOL	C	07/02/1994	*	12	00	2	00	93030
											TOTAL:	22	00	157	50

\* - DENOTES UNPLANNED PROCEDURE \* - DENOTES GREATER THAN 45 DAYS BEYOND LAST TARGET DATE

SITE NAME SOUTH TEXAS PROJECT

UNIT NAME SOUTH TEXAS 1  
SALP CYCLE ID

SALP START DATE: / /

DOCKET NUMBER: 050-00498

REPORT FROM DATE:

SALP END DATE: / /

PROCEDURE STS: ALL

REPORT TO DATE:

ORG CD: ALL

SALP FUNCTIONAL AREA FLEC

NAME: ELECTRICAL EQUIPMENT AND CABLES

SALP RATING :

PROC ID	PERIOD	TITLE/COMMENTS	IPE	PRI	ORG	EMP	STS	TARGET DT	FRQ	PLND HRS	ACTL HRS	IR #	COMPLTN DT
51065	01* 010	ELECTRIC CABLE - RECORD REVIEW	AF		4612	DLK	C			.00	3.50	S010	08/14/1993
TOTAL:										.00	3.50		

\* - DENOTES UNPLANNED PROCEDURE

+ - DENOTES GREATER THAN 45 DAYS BEYOND LAST TARGET DATE

SITE NAME: SOUTH TEXAS PROJECT

UNIT NAME: SOUTH TEXAS 1  
 SALP CYCLE ID: SALP START DATE: / / DOCKET NUMBER: 050-00498 REPORT FROM DATE: / /  
 SALP END DATE: / / PROCEDURE STS: ALL REPORT TO DATE: ORG CD ALL

SALP FUNCTIONAL AREA: ETS-C NAME: ENGINEERING/TECHNICAL SUPPORT - CONSTRUCTION SALP RATING:

PROC ID	PERIOD	TITLE/COMMENTS	IPE	PRI	ORG	EMP	STS	TARGET DT	FRQ	PLND HRS	ACTL HRS	IR #	COMPLTN DT
37051	-01*	010 VERIFICATION OF AS-BUILTS	AF		4612	DLK	C			.00	2.50	5010	08/14/1993
TOTAL:										.00	2.50		

\* - DENOTES UNPLANNED PROCEDURE

+ - DENOTES GREATER THAN 45 DAYS BEYOND LAST TARGET DATE



SITE NAME: SOUTH TEXAS PROJECT

MASTER INSPECTION PLAN  
BY SALP FUNCTIONAL AREA  
SORTED BY FNCTL AREA/IPE CD/PROC

UNIT NAME: SOUTH TEXAS 2  
SALP CYCLE ID:

SALP START DATE: / /

DOCKET NUMBER: 050-00499  
SALP END DATE: / /

REPORT FROM DATE

PROCEDURE STS: ALL

REPORT TO DATE

ORG CD: ALL

SALP FUNCTIONAL AREA OPS NAME: OPERATIONS

SALP RATING:

PROC ID	PERIOD	TITLE/COMMENTS	IPE	PRI	ORG	EMP	STS	TARGET DT	FRQ	PLND	HRS	ACTL HRS	IR #	COMPLTN DT	
64704	01	010	FIRE PROTECTION	CO		4614	ASI	C	03/08/1993	O	12.50	18.50	93009	03/13/1993	
71707	-01	010	MONTHLY RESIDENT	CO		4205	JJT	C	09/02/1992	M	59.00	60.00	92026	09/12/1992	
71707	-02	010	MONTHLY RESIDENT	CO		4205	JJT	C	09/13/1992	M	59.00	61.60	92029	10/24/1992	
71707	-03	010	MONTHLY RESIDENT	CO		4205	JJT	C	10/25/1992	M	59.00	59.00	92032		
71707	-04	010	MONTHLY RESIDENT	CO		4205	JJT	C	12/06/1992	M	59.00	119.50	93011	04/10/1993	
71707	-05	010	MONTHLY RESIDENT	CO		4205	JJT	C	01/17/1993	M	59.00	55.50	93004		
71707	-06	010	MONTHLY RESIDENT	CO		4205	JJT	C	02/28/1993	M	59.00	71.00	93015	04/17/1993	
71707	-07	010	MONTHLY RESIDENT	CO		4205	JJT	C	04/11/1993	M	59.00	26.00	93015	05/22/1993	
71707	-08	010	MONTHLY RESIDENT	CO		4205	JJT	C	05/23/1993	M	59.00	73.00	93020	07/03/1993	
71707	-09	010	MONTHLY RESIDENT	CO		4202	DOL	C	07/04/1993	M	59.00	56.00	93024	08/14/1993	
71707	-10	010	MONTHLY RESIDENT	CO		4202	DOL	C	08/15/1993	M	59.00	47.50	93030	09/25/1993	
71707	-11	010	MONTHLY RESIDENT	CO		4202	DOL	M	09/26/1993	M	59.00	21.00	93036		
71707	-12	010	MONTHLY RESIDENT	CO		4202	DOL	N	11/07/1993	M	59.00	.00			
71707	-13	010	MONTHLY RESIDENT	CO		4202	DOL	N	12/19/1993	M	59.00	.00			
71707	-14	010	MONTHLY RESIDENT	CO		4202	DOL	N	01/30/1994	M	59.00	.00			
71707	-15	010	MONTHLY RESIDENT	CO		4202	DOL	N	03/13/1994	M	59.00	.00			
71707	-16	010	MONTHLY RESIDENT	CO		4202	DOL	N	04/24/1994	M	49.00	.00			
71707	-17	010	MONTHLY RESIDENT	CO		4202	DOL	N	05/29/1994	M	49.00	.00			
71707	-18	010	MONTHLY RESIDENT	CO		4202	DOL	N	07/01/1993	S	10.00	8.00	92029	10/17/1992	
71710	-01	010	ESF SYSTEM WALKDOWN	CO		4205	JJT	C	12/01/1992	S	10.00	8.00	93015	05/01/1993	
71710	-02	010	ESF SYSTEM WALKDOWN	CO		4202	DOL	N	12/19/1993	S	10.00	.00			
71710	-03	010	ESF SYSTEM WALKDOWN	CO		4202	DOL	N	04/24/1994	S	10.00	.00			
71710	-04	010	ESF SYSTEM WALKDOWN	CO		4205	DOL	C	07/02/1994	M	39.00	21.00	93020		
93702	-01	010	ONSITE RSPNSE TO EVNT	CO		4202	M3S	M			.00	1.00	93024		
93702	-03*	010	PROMPT ONSITE REPNSE EVNT	CO		4202	M3S	M			.00				
60710	-01	010	REFUELING ACTIVITIES	RI		4202	DOL	M	09/11/1993	*	42.00	38.80	93020		
64704	-02	010	FIRE PROTECTION	RI		4613	R	R	07/02/1994	O	.00	.00			
71500	-01	010	BALANCE OF PLANT	RI		4614	R	R	07/02/1994	*	.00	.00			
71707	-12	010	MONTHLY RESIDENT	RI		4202	DOL	M	07/02/1994	M	150.00	132.00	93030		
71710	-05	010	ESF SYSTEM WALKDOWN	RI		4202	DOL	R	07/02/1994	S	.00	.00			
71715	-01	010	SUSTAINED OPS OBSERVATION	RI		4202	DOL	R	07/02/1994	*	.00	.00			
93702	-02	010	PROMPT ONSITE REPNSE EVNT	RI		4202	DOL	M	07/02/1994	M	.00	1.50	93024		
93802	-02	010	OSTI	RT		4205	M3S	C	11/30/1992	*	250.00	253.30	92035	01/16/1993	
2515/117-01	010	LINCESED OP REQUAL PROG EVALUAT	SI			4613	JPQ	C	01/11/1993	*	96.00	51.00	93001	01/16/1993	
TOTAL:												1,612.50	1,183.20		

\* - DENOTES UNPLANNED PROCEDURE

+ - DENOTES GREATER THAN 45 DAYS BEYOND LAST TARGET DATE

SITE NAME: SOUTH TEXAS PROJECT

UNIT NAME: SOUTH TEXAS 2

DOCKET NUMBER: 050-00499

REPORT FROM DATE:

REPORT TO DATE:

SALP CYCLE ID:

SALP START DATE: / /

SALP END DATE: / /

PROCEDURE STS: ALL

ORG CD: ALL

SALP FUNCTIONAL AREA: RADCON NAME: RADIOLOGICAL CONTROLS

SALP RATING

PROC ID	PERIOD	TITLE/COMMENTS	IPE	PRI	ORG	EMP	STS	TARGET DT	FRQ	PLND HRS	ACTL HRS	IR #	COMPLTN DT
83750	-01 010	OCCUPATIONAL EXPOSURE	CO		4304	BOM	C	09/11/1993	C	52.50	39.00	93018	05/29/1993
84750	-01 010	EFFLUENTS, WATER CHEM& CM	CO		4304	BOM	C	09/11/1993	C	52.50	21.00	93026	09/04/1993
86750	-01 010	SOLID RADWASTE& TRANSPORT	CO		4304	BOM	C	09/11/1993	C	14.00	20.00	93029	09/04/1993
83729	-01 010	OCPTNL EXP CTRL EXT OUTGS	RI		4304	LTR	C	05/17/1993	*	20.00	20.00	93018	05/22/1993
TOTAL:											139.00	100.00	

\* - DENOTES UNPLANNED PROCEDURE

+ - DENOTES GREATER THAN 45 DAYS BEYOND LAST TARGET DATE

SITE NAME: SOUTH TEXAS PROJECT

UNIT NAME: SOUTH TEXAS 2  
SALP CYCLE ID:

SALP START DATE: / /

DOCKET NUMBER: 050-00499  
SALP END DATE: / /REPORT FROM DATE: / /  
PROCEDURE STS ALLREPORT TO DATE: / /  
ORG CD: ALL

SALP FUNCTIONAL AREA: MS

NAME: MAINTENANCE/SURVEILLANCE

SALP RATING:

PROC ID	PERIOD	TITLE/COMMENTS	IPE	PRI	ORG	EMP	STS	TARGET DT	FRQ	PLND HRS	ACTL HRS	TR #	COMPLTN DT
61726	-01	010	SURVEILLANCE	OBSERVATION	CO	4205	JJT	C	08/02/1992	B	7.50	8.00	92026
61726	-02	010	SURVEILLANCE	OBSERVATION	CO	4205	JJT	C	09/13/1992	B	7.50	.00	
61726	-03	010	SURVEILLANCE	OBSERVATION	CO	4205	JJT	C	10/25/1992	B	7.50	14.00	92032
61726	-04	010	SURVEILLANCE	OBSERVATION	CO	4205	JJT	C	12/06/1992	B	7.50	9.00	92036
61726	-05	010	SURVEILLANCE	OBSERVATION	CO	4205	JJT	C	01/17/1993	B	7.50	3.00	93004
61726	-06	010	SURVEILLANCE	OBSERVATION	CO	4205	JJT	C	02/28/1993	B	7.50	10.10	93015 04/17/1993
61726	-07	010	SURVEILLANCE	OBSERVATION	CO	4205	JJT	C	04/11/1993	B	7.50	.10	93015 05/22/1993
61726	-08	010	SURVEILLANCE	OBSERVATION	CO	4205	JJT	C	05/23/1993	B	7.50	3.10	93020 07/03/1993
61726	-09	010	SURVEILLANCE	OBSERVATION	CO	4202	DOL	M	07/04/1993	B	7.50	2.00	93024
61726	-10	010	SURVEILLANCE	OBSERVATION	CO	4202	DOL	C	08/15/1993	B	7.50	.00	93030 09/25/1993
61726	-11	010	SURVEILLANCE	OBSERVATION	CO	4202	DOL	M	09/26/1993	B	7.50	2.00	93036
61726	-12	010	SURVEILLANCE	OBSERVATION	CO	4202	DOL	N	11/07/1993	B	7.50	.00	
61726	-13	010	SURVEILLANCE	OBSERVATION	CO	4202	DOL	N	12/19/1993	B	7.50	.00	
61726	-14	010	SURVEILLANCE	OBSERVATION	CO	4202	DOL	N	01/30/1994	B	7.50	.00	
61726	-15	010	SURVEILLANCE	OBSERVATION	CO	4202	DOL	N	03/13/1994	B	7.50	.00	
61726	-16	010	SURVEILLANCE	OBSERVATION	CO	4202	DOL	N	04/24/1994	B	6.50	.00	
61726	-17	010	SURVEILLANCE	OBSERVATION	CO	4202	DOL	N	05/29/1994	B	6.50	.00	
62703	-01	010	MAINTENANCE	OBSERVATION	CO	4205	JJT	C	08/02/1992	M	11.25	12.00	92026 09/05/1992
62703	-02	010	MAINTENANCE	OBSERVATION	CO	4205	JJT	C	09/13/1992	M	11.25	6.00	92029
62703	-03	010	MAINTENANCE	OBSERVATION	CO	4205	JJT	C	10/25/1992	M	11.25	18.00	92032
62703	-04	010	MAINTENANCE	OBSERVATION	CO	4205	JJT	C	12/06/1992	M	11.25	14.50	93011
62703	-05	010	MAINTENANCE	OBSERVATION	CO	4205	JJT	C	01/17/1993	M	11.25	22.00	93004
62703	-06	010	MAINTENANCE	OBSERVATION	CO	4205	JJT	C	02/28/1993	M	11.25	16.10	93015 04/17/1993
62703	-07	010	MAINTENANCE	OBSERVATION	CO	4205	JJT	C	04/11/1993	M	11.25	10.00	93015 05/22/1993
62703	-08	010	MAINTENANCE	OBSERVATION	CO	4205	JJT	C	05/23/1993	M	11.25	18.50	93020 07/03/1993
62703	-09	010	MAINTENANCE	OBSERVATION	CO	4202	DOL	M	07/04/1993	M	11.25	4.50	93024
62703	-10	010	MAINTENANCE	OBSERVATION	CO	4202	DOL	C	08/15/1993	M	11.25	3.50	93030 09/25/1993
62703	-11	010	MAINTENANCE	OBSERVATION	CO	4202	DOL	M	09/26/1993	M	11.25	3.50	93036
62703	-13	010	MAINTENANCE	OBSERVATION	CO	4202	DOL	N	11/07/1993	M	11.25	.00	
62703	-15	010	MAINTENANCE	OBSERVATION	CO	4202	DOL	N	11/07/1993	M	11.25	.00	
62703	-16	010	MAINTENANCE	OBSERVATION	CO	4202	DOL	N	12/19/1993	M	11.25	.00	
62703	-17	010	MAINTENANCE	OBSERVATION	CO	4202	DOL	N	01/30/1994	M	11.25	.00	
62703	-18	010	MAINTENANCE	OBSERVATION	CO	4202	DOL	N	03/13/1994	M	11.25	.00	
62703	-19	010	MAINTENANCE	OBSERVATION	CO	4202	DOL	N	04/24/1994	M	9.50	.00	
73753	-01	010	ISI - OBSERVATIONS		CO	4612	CKJ	C	03/08/1993	C	32.00	36.50	93010 03/13/1993
49001	-01	010	EROSTION/CORROSION PRGMS		RI	4612	LKG	C	12/14/1992	*	35.00	33.50	92033 12/19/1992
61700	-01	010	SURVEILLANCE PROCEDURES		RI	4612		R	07/02/1994	*	.00	.00	
61701	-01	010	COMPLEX SURVEILLANCE		RI	4613		R	07/02/1994	*	.00	.00	
61726	-18	010	SURVEILLANCE OBSERVATION		RI	4202	DOL	R	07/02/1994	B	.00	.00	

\* - DENOTES UNPLANNED PROCEDURE

+ - DENOTES GREATER THAN 45 DAYS BEYOND LAST TARGET DATE

SITE NAME SOUTH TEXAS PROJECT

UNIT NAME SOUTH TEXAS 2

DOCKET NUMBER: 050-00499

REPORT FROM DATE:

REPORT TO DATE:

SALP CYCLE ID:

SALP START DATE: / /

SALP END DATE: / /

PROCEDURE STS: ALL

ORG CD: ALL

SALP FUNCTIONAL AREA: MS

NAME: MAINTENANCE/SURVEILLANCE

SALP RATING

PROC ID	PERIOD	TITLE/COMMENTS	IPE	PRI	ORG	EMP	STS	TARGET DT	FRQ	PLND HRS	ACTL HRS	IR #	COMPLTN DT	
62700	-01	010	MAINTENANCE PRACTICES	RI	4612	TMG	C	08/31/1992	*	20.00	20.00	92027	09/05/1992	
62700	-02	010	MAINTENANCE PRACTICES	RI	4205	M3S	R	06/21/1993	*	50.00	8.50	93008		
62700	-03	010	MAINTENANCE PRACTICES	RI	4205	M3S	R	03/08/1993	*	50.00	50.00	93005		
62700	-04	010	MAINTENANCE PRACTICES	RI	4205	JJT	R	01/18/1993	*	15.00	15.00	93003		
62703	-12	010	MAINTENANCE OBSERVATION	RI	4202	DOL	M	07/02/1994	M	30.00	7.00	92026		
62703	-20	010	MAINTENANCE OBSERVATION	RI	4202	DOL	R	07/02/1994	M	.00	.00			
62704	-01	010	INSTRUMENT MAINTENANCE	RI	4611		R	07/02/1994	*	.00	.00			
62705	-01	010	ELECTRICAL MAINTENANCE	RI	4611		R	07/02/1994	*	.00	.00			
73755	-01	010	ISI - DATA REVIEW	RI	4600	IAB	C	07/02/1994	*	37.00	47.50	93028		
73756	-01	010	IST OF PUMPS & VALVES	RI	4612		R	07/02/1994	*	.00	.00			
79501	-01	010	RX WATER CHEM CONTROL	RI	4600	IAB	P	07/02/1994	*	9.00	4.50	93028	08/28/1993	
79502	-01	010	PLANT SYSTEMS - CHEMISTRY	RI	4600	IAB	P	07/02/1994	*	9.00	4.50	93028	08/28/1993	
62700	-05	010	MAINTENANCE PRACTICES	RR	4200	CZP	M		*	.00	40.00	93013		
62703	-14	010	MAINTENANCE OBSERVATION	RR	4202	DOL	M	07/02/1994	M	15.00	1.50	93002		
2515/110-01	010	PRFMNCE OF S/R CV	SI		4612	LEE	C	08/23/1993	*	54.00	52.00	93027	08/28/1993	
TOTAL:											671.00	500.40		

\* - DENOTES UNPLANNED PROCEDURE

+ - DENOTES GREATER THAN 45 DAYS BEYOND LAST TARGET DATE

SITE NAME: SOUTH TEXAS PROJECT

UNIT NAME: SOUTH TEXAS 2

SALP CYCLE ID:

SALP START DATE: / /

DOCKET NUMBER: 050-00499

SALP END DATE: / /

REPORT FROM DATE:

PROCEDURE STS ALL

REPORT TO DATE:

ORG CD: ALL

SALP FUNCTIONAL AREA: EP

NAME: EMERGENCY PREPAREDNESS

SALP RATING:

PROC ID	PERIOD	TITLE/COMMENTS	IPE	PRI	ORG	EMP	STS	TARGET DT	FRQ	PLND HRS	ACTL HRS	IR #	COMPLTN DT	
82301	-01 010	EP EXERCISE	CO		4304	DSE	C	06/07/1993	Y	27 00	32 50	93017	06/12/1993	
82302	-01 010	EP SCENARIO	CO		4304	BOM	C	09/11/1993	Y	6 00	7 00	93017	05/29/1993	
82701	-01 010	EP PROGRAM	CO		4304	BOM	C	09/11/1993	C	17 50	20 00	93025	08/07/1993	
82205	-01 010	STAFFING & AUGMENTATION	RI		4304	BOM	R	08/02/1992	*	8 00				
82301	-02 010	EP EXERCISE	RI		4304	DSE	N	06/07/1993	Y	28 00				
82701	-02 010	EP PROGRAM	RI		4613	JPO	C	08/02/1992	C	14 00	7 00	93025	08/07/1993*	
TOTAL:											100 50	66 50		

\* - DENOTES UNPLANNED PROCEDURE

\* - DENOTES GREATER THAN 45 DAYS BEYOND LAST TARGET DATE

SITE NAME SOUTH TEXAS PROJECT

UNIT NAME SOUTH TEXAS 2  
SALP CYCLE ID

SALP START DATE: / /

DOCKET NUMBER: 050-00499

REPORT FROM DATE:

SALP END DATE: / /

PROCEDURE STS: ALL

REPORT TO DATE:  
ORG CD: ALL

SALP FUNCTIONAL AREA: SEC

NAME: SECURITY

SALP RATING :

PROC ID	PERIOD	TITLE/COMMENTS	IPE	PR	ORG	EMP	STS	TARGET DT	FRQ	PLND HRS	ACTL HRS	IR #	COMPLTN DT	
81700	-01	010	PHYSICAL SECURITY PROGRAM	CD		4304	BOM	M 11/16/1992	C	56.00	28.00	93023		
81018	-01	010	SECURITY PLAN & PROCEDURES	RI		4304	TKD	M 11/15/1993		.00	2.00	93023		
81018	-02	010	SECURITY PLAN & PROCEDURES	RI		4304	TKD	M 11/15/1993	*	6.00	1.00	92034		
81042	-01	010	TESTING AND MAINTENANCE	RI		4304	TKD	R 07/12/1993		.00	.50	93016		
81042	-02	010	TESTING AND MAINTENANCE	RI		4304	TKD	R 07/12/1993	*	5.00	2.50	92034		
81058	-01*	010	SECURITY POWER SUPPLY	RI		4304	TKD	C		.00	.50	93016	04/17/1993	
81058	-02	010	SECURITY POWER SUPPLY	RI		4304	TKD	M 11/15/1993	*	2.00	2.00	93023		
81064	-01*	010	COMPENSATORY MEASURES	RI		4304	TKD	C		.00	1.50	93002	01/30/1993	
81064	-02	010	COMPENSATORY MEASURES	RI		4304	TKD	M 11/15/1993	*	6.00	4.00	93023		
81066	-01*	010	ASSESSMENT AIDS	RI		4304	TKD	C		.00	2.00	93002	01/30/1993	
81066	-02	010	ASSESSMENT AIDS	RI		4304	TKD	M 11/15/1993	*	6.00	4.00	93023		
TOTAL :											81.00	48.00		

\* - DENOTES UNPLANNED PROCEDURE

\* - DENOTES GREATER THAN 45 DAYS BEYOND LAST TARGET DATE

SITE NAME: SOUTH TEXAS PROJECT

UNIT NAME: SOUTH TEXAS 2

SALP CYCLE ID:

SALP START DATE

DOCKET NUMBER:

050-00499

REPORT FROM DATE:

PROCEDURE STS: ALL

REPORT TO DATE:

ORG CD ALL

SALP FUNCTIONAL AREA: ETS-0

NAME: ENGINEERING/TECHNICAL SUPPORT - OPERATIONAL

SALP RATING:

PROC ID	PERIOD	TITLE/COMMENTS	IPE	PRI	ORG	EMP	STS	TARGET DT	FRQ	PLND	HRS	ACTL	HRS	IR #	COMPLTN DT	
37700	-01	010	DESIGN CHANGES & MODS	CO		4611	TEW	R	09/11/1993	C	30	00		00		
37700	-02	010	DESIGN CHANGES & MODS	RI		4611	TEW	N	07/02/1994	C	17	00		00		
37701	-01	010	MODS NEEDING NRC APPROVAL	RI		4611		R	07/02/1994	*	00	00		00		
37828	-01	010	INSTAL & TEST MODS	RI		4613		R	07/02/1994	*	00	00		00		
72701	-01	010	MODIFICATION TESTING	RI		4613		R	07/02/1994	*	00	00		00		
2515/109-01		010	MOV TESTING - GL 89-10	SI		4611	TEW	M	09/11/1993	*	195	00	117	50	93006	
											TOTAL:	242	00	117	50	

\* - DENOTES UNPLANNED PROCEDURE

\* - DENOTES GREATER THAN 45 DAYS BEYOND LAST TARGET DATE

SITE NAME: SOUTH TEXAS PROJECT

UNIT NAME: SOUTH TEXAS 2  
SALP CYCLE IDDOCKET NUMBER: 050-00499  
SALP START DATE: / /  
SALP END DATE: / /REPORT FROM DATE:  
PROCEDURE STS: ALLREPORT TO DATE:  
ORG CD: ALL

SALP FUNCTIONAL AREA SAQV-0 NAME: SAFETY ASSESSMENT/QUALITY VERIFICATION - OPERATIONAL

SALP RATING :

PROC ID	PERIOD	TITLE/COMMENTS	IPE	PRI	ORG	EMP	STS	TARGET DT	FRQ	PLND	HRS	ACTL HRS	IR #	COMPLTN DT
92702	-02	010	CORCTVE ACTNS VIOL & DEV	AF	4304	TKD	C	07/02/1994	*	.00		8.00	93016	04/17/1993
40500	-01	010	SAFETY ASSESSMENT	CO	4614		R	09/11/1993	C	20.00		00		
35702	-01	010	QC/QUALITY VERIFICATION	RI	4612		R	07/02/1994	*	.00		00		
38701	-01	010	PROCUREMENT PROGRAM	RI	4612		R	07/02/1994	*	.00		00		
38702	-01	010	RECEIPT & STORAGE	RI	4612		R	07/02/1994	*	.00		00		
39702	-01	010	DOCUMENT CONTROL PROGRAM	RI	4612		R	07/02/1994	*	.00		00		
40704	-01	010	AUDIT IMPLEMENTATION	RI	4612		R	07/02/1994	*	.00		00		
90700	-01	010	FDBK OP EXP INFO OP PWR R	RI	4202		R	07/02/1994	*	.00		00		
92700	-01	010	ONSITE LER REVIEW	RI	4000	WDJ	M	07/02/1994	*	175.00		141.00	93019	
92701	-01	010	OPEN ITEM FOLLOWUP	RI	4000	WDJ	M	07/02/1994	*	100.00		103.80	92030	11/21/1992
92701	-02	010	OPEN ITEM FOLLOWUP	RI	4000	WDJ	M	07/02/1994	*	35.00		16.00	93008	
92702	-01	010	CORCTVE ACTNS VIOL & DEV	RI	4000	WDJ	M	07/02/1994	*	45.00		16.50	93020	
92720	-01	010	CORRECTIVE ACTION PROGRAM	RI	4614		R	07/02/1994	*	.00		00		
93804	-01	010	PRA TEAM	RI	4614		R	07/02/1994	*	.00		00		
94702	-01	010	LICENSEE/NRR MEETINGS	RI	4000	WDJ	N	07/02/1994	*	20.00		00		
2700	-02	010	ONSITE LER REVIEW	RR	4000	WDJ	M	07/02/1994	*	.00		13.50	93020	
92702	-03	010	CORCTVE ACTNS VIOL & DEV	RR	4611	TEW	M	07/02/1994	*	.00		4.00	93020	
2515/113-01	010	010	RELIABLE DHR DURING OUTGS	SI	4205	JJT	C	08/02/1992		24.00		6.00	92029	10/24/1992
TOTAL:											419.00	308.80		

\* - DENOTES UNPLANNED PROCEDURE

+ - DENOTES GREATER THAN 45 DAYS BEYOND LAST TARGET DATE



SITE NAME: SOUTH TEXAS PROJECT

UNIT NAME: SOUTH TEXAS 2

SALP CYCLE ID:

DOCKET NUMBER: 050-00499

REPORT FROM DATE:

REPORT TO DATE

SALP START DATE: / /

SALP END DATE: / /

PROCEDURE STS: ALL

ORG CD: ALL

SALP FUNCTIONAL AREA: OTHR-0 NAME: OTHER SPECIAL AREA FOR OPERATIONS/STARTUP TESTING

SALP RATING

PROC ID	PERIOD	TITLE/COMMENTS	IPE	PRI	ORG	EMP	STS	TARGET DT	FRQ	PLND HRS	ACTL HRS	IR #	COMPLTN DT
30702	-01 010	MANAGEMENT MEETINGS	RI		4205	M3S	C	07/02/1994 *		10.00	4.50	92036	
93801	-01 010	SSFI	RI		4614		R	07/02/1994 *		.00	00		
93800	-01* 010	AIT	RT		4203	IRL	C			.00	157.00	93007	02/13/1993
2500/02B-01	010	EMPLOYEE CONCERNS PROGRAMS	SI		4202	DOL	C	07/02/1994 *		12.00	2.00	93030	09/11/1993
										TOTAL:	22.00	163.50	

\* - DENOTES UNPLANNED PROCEDURE

+ - DENOTES GREATER THAN 45 DAYS BEYOND LAST TARGET DATE

SITE NAME: SOUTH TEXAS PROJECT

UNIT NAME: SOUTH TEXAS 2  
SALP CYCLE ID:

SALP START DATE: / /

DOCKET NUMBER: 050-00499

REPORT FROM DATE: / /

SALP END DATE: / /

PROCEDURE STS: ALL

REPORT TO DATE:  
ORG CD: ALL

SALP FUNCTIONAL AREA: ELEC

NAME: ELECTRICAL EQUIPMENT AND CABLES

SALP RATING :

PROC ID	PERIOD	TITLE/COMMENTS	IPE	PRI	ORG	EMP	STS	TARGET DT	FRQ	PLND	HRS	ACTL	HRS	IR #	COMPLTN	DT
51065	-01*	010	ELECTRIC CABLE - RECORD REVIEW	AF	4612	DLK	C				.00	3.50	5010	08/14/1993		
TOTAL											.00	3.50				

\* - DENOTES UNPLANNED PROCEDURE

+ - DENOTES GREATER THAN 45 DAYS BEYOND LAST TARGET DATE

SITE NAME: SOUTH TEXAS PROJECT

UNIT NAME: SOUTH TEXAS 2 DOCKET NUMBER 050-00499 REPORT FROM DATE: REPORT TO DATE  
 SALP CYCLE ID: SALP START DATE: / / SALP END DATE: / / PROCEDURE STS: ALL ORG CD ALL

SALP FUNCTIONAL AREA: ETS-C NAME: ENGINEERING/TECHNICAL SUPPORT - CONSTRUCTION SALP RATING

PROC ID	PERIOD	TITLE/COMMENTS	IPE	PRI	ORG	EMP	STS	TARGET DT	FRQ	PLND HRS	ACTL HRS	IR #	COMPLIN DT
37051	-01*	010 VERIFICATION OF AS-BUILTS	AF		4612	DLK	C			.00	2.50	5010	08/14/1993
TOTAL:										.00	2.50		

\* - DENOTES UNPLANNED PROCEDURE

+ - DENOTES GREATER THAN 45 DAYS BEYOND LAST TARGET DATE

ATTACHED IS THE INFORMATION TO BE USED FOR  
THE SPPR FOR

**SOUTH TEXAS PROJECT ELECTRIC  
GENERATING STATION**

THE SPPR DISCUSSION WILL BE HELD IN THE DRP  
CONFERENCE ROOM

**0930 HOURS  
OCTOBER 20, 1993**

B. BEACH  
P. GWYNN  
P. HARRELL  
S. COLLINS  
A. HOWELL  
T. WESTERMAN  
L. CONSTABLE  
D. POWERS  
I. BARNES  
J. PELLET  
J. CALLAN  
D. CHAMBERLAIN  
B. MURRAY  
SRI\*  
PM\*  
\* SENT VIA E-MAIL

C/14

**SOUTH TEXAS PROJECT**  
**EXECUTIVE SUMMARY**  
**SEMIANNUAL PLANT PERFORMANCE REVIEW 93-04**  
**OCTOBER 20, 1993**

**SALP CYCLE 010**  
**(AUGUST 2, 1992 THRU JULY 2, 1994)**

**I. OVERVIEW**

Both units have remained shutdown the entire quarter, as a result of turbine-driven auxiliary feedwater pump operability concerns and other issues. Poor performance trends have continued in the areas of plant operations, maintenance, and plant support. Operator performance inadequacies have been identified in routine and special inspections; the licensee's corrective action program has not exhibited effectiveness; and the maintenance and engineering backlogs remain challenges to the licensee.

**II. PERFORMANCE INDICATORS**

Quarter 93-01

Analysis: The number of automatic scrams recorded by Unit 2 trended higher than the peer group, with significant events, safety system failures, and forced outage rate trending higher than the peer group for both units. These indicators are due the forced outage and the events in February that resulted in both units being required to shutdown.

**III. SUMMARY OF SIGNIFICANT REGULATORY ISSUES**

Violations identified in plant operations demonstrate continued weaknesses in operator performance. A total of five severity Level IV violations identified in plant support indicates problems in emergency preparedness, corrective action, and surveillance support.

**IV. PLANT OPERATIONS**

**PREVIOUS RATINGS**

SALP 91: 2            92: 2

QPPR 93-01: (NC)    QPPR 93-02: (NC)    QPPR 93-03: (-)    SPPR 93-04: (-)

**STRENGTHS:** Staffing enhancements have been made. 20 new reactor plant operators (RPOs) have been hired and are presently in training; these new RPOs are intended to relieve shortages that have contributed to excessive overtime, operator errors due to overwork, and tight shift scheduling due to limited numbers of non-licensed operators. Shift realignment should add additional licensed reactor operators to each operating crew and are viewed as a positive enhancement to plant operations. Both units have unitized operations management which should enhance management oversight and communications of expectations.

**WEAKNESSES:** Weaknesses in operator performance has been noted in numerous instances. Spent fuel pool cooling was lost for 13-hours, with a shift turnover taking place during the time cooling was lost. The licensee's operations work control group has been implemented, but is not considered fully effective; operators still appear to be distracted and losing focus on the operation of the plant by non-operations duties. Operator decorum and professionalism in the control room was considered below average during recent operator licensing examinations. Recurrent equipment clearance order implementation problems resulted in a 3-hour site standown during this quarter. Marginal operator knowledge exhibited by 3 failures of 15 candidates on the latest operator licensing examination.

**PERFORMANCE ASSESSMENT WITH RECOMMENDATIONS:** (-) Performance trend; restart activities will further assess the licensee's efforts in this area.

#### V. MAINTENANCE

##### PREVIOUS RATINGS

SALP 91: 2            92: 2D

QPPR 93-01: (-)    QPPR 93-02: (-)    QPPR 93-03: (-)    SPPR 93-04: (-)

**STRENGTHS:** Due to extensive outages on both units, backlog numbers have been reduced. Unitization efforts should improve supervisory and management oversight of work activities.

**WEAKNESSES:** Weaknesses continue in work prioritization, maintenance planning, and control of backlog (which remains relatively high). The operations work control group was recently activated; its effect on maintenance activities remains to be determined with effective work coordination still remaining a challenge. Main feedwater isolation bypass valve operability remains unresolved pending further inspection. Standby diesel generator (SDG) 23 configuration control problems associated with the reverse power relays remain to be resolved by the licensee, in addition to undocumented modifications installed on all machines. At present, the licensee has committed to a retest program on the SDGs prior to restart in order to demonstrate reliability; however, the scope and depth of this program remains unknown. Turbine-driven auxiliary feedwater pump testing is incomplete, pending entry into Mode 3 to establish conditions for retest.

**PERFORMANCE ASSESSMENT WITH RECOMMENDATIONS:** (-) Performance trend; restart activities will further assess the licensee's efforts in this area.

## VI. ENGINEERING

### PREVIOUS RATINGS

SALP 91: 2I                      92: 2

QPPR 93-01: (NC)    QPPR 93-02: (NC)    QPPR 93-03: (-)    SPPR 93-04: (NC)

**STRENGTHS:** New management, although presently untested at STPEGS, is viewed as a positive. An ambitious system engineer training program should improve overall system engineer quality. The licensee has made significant effort upgrade the fire protection system.

**WEAKNESSES:** An engineering analysis on the ability of the chillers to perform their function during design based accident at low load is pending and requires NRC review prior to restart. Several significant reliability issues concerning the SDGs also require resolution prior to restart. System engineers are still overburdened with responsibilities and their knowledge remains weak. A number of fire protection issues remain pending involving the reliability of the fire protection system.

**PERFORMANCE ASSESSMENT WITH RECOMMENDATIONS:** (NC) performance trend; restart activities will further assess the licensee's efforts in this area.

## VII. PLANT SUPPORT

### PREVIOUS RATINGS

SALP 94:

SPPR 93-04: (-)

**STRENGTHS:** The licensee has exhibited overall strong performance in radiation protection and has taken steps to improve the morale problems in the security department by adding additional officers to improve staffing levels.

**WEAKNESSES:** The licensee has had weak performance during emergency preparedness exercises and drills. Overall, the performance of the security department has been weak: low moral exists within the security force with excessive overtime contributing to the morale problems and poor security equipment maintenance has resulted in excessive numbers of compensatory posting that exacerbates overtime issues.

**PERFORMANCE ASSESSMENT WITH RECOMMENDATIONS:** (-) performance trend. The weakness identified in emergency preparedness and security tend to shadow the relatively good performance in radiation protection. Restart activities will further assess the licensee's efforts in this area.

## VIII. TIA STATUS

- 1). DRS TIA on Thermolag usage for RG 1.75 purposes has been recently submitted; no status.

- 2). DRS TIA concerning the reportability of pressurizer safety valve serpoint drift has been submitted and is pending.

IX. MAJOR SITE ACTIVITIES

COMPLETED

- 9230 - MOVATS Inspection
- 9235 - OSTI
- 9327 - Check Valve TI 2515/110
- STIR
- DET

PLANNED

- SPEAKOUT Inspection - Late October 1993
- Operational Readiness Assessment Team Inspection - December 1993/January 1994
- Several Regional based inspections during the Restart Inspection activities

X. ENCLOSURES

1. Master Inspection Plan Report 2
2. IFS Report 1
3. Performance Indicators



# SOUTH TEXAS PROJECT

SEMIANNUAL PLANT PERFORMANCE REVIEW 93-04  
OCTOBER 20, 1993

## SUMMARY OF MIP CHANGES - UNIT 1

MODULE	TITLE	AREA	ADD/ CHANGE	FM	TO	DELTA
64704	FIRE PROTECTION/PREVENTION PROGRAM	OPS	A	0	60 <sup>1</sup>	+60
82205	STAFFING & AUGMENTATION	EP	A	0	16 <sup>2</sup>	+16
92701	OPEN ITEM FOLLOWUP	SA/QV	A	0	125 <sup>3</sup>	+125
NET CHANGE						+201

<sup>1</sup>Justification: Restart Issue Inspection

<sup>2</sup>Additional Hours to Support Inspection of Restart Issue

<sup>3</sup>DRS Inspection of the Licensee's SPEAKOUT Program

GENERAL NOTE: More Modules will be required to be added as the scope of Restart Issue Inspections are determined

# SOUTH TEXAS PROJECT

SEMIANNUAL PLANT PERFORMANCE REVIEW 93-04  
OCTOBER 20, 1993

## SUMMARY OF MIP CHANGES - UNIT 2

MODULE	TITLE	AREA	ADD/ CHANGE	FM	TO	DELTA
64704	FIRE PROTECTION/PREVENTION PROGRAM	OPS	A	0	20 <sup>1</sup>	+60
71707-12	OPERATIONAL SAFETY VERIFICATION	OPS	C	150	200 <sup>2</sup>	+50
82205	STAFFING & AUGMENTATION	EP	A	0	16 <sup>3</sup>	+16
92701	OPEN ITEM FOLLOWUP	SA/QV	A	0	125 <sup>4</sup>	+125
NET CHANGE						+251

<sup>1</sup>Justification: Restart Issue Inspection

<sup>2</sup>Additional Hours for Resident Inspector Regional Initiative

<sup>3</sup>Additional Hours to Support Inspection of Restart Issue

<sup>4</sup>DRS Inspection of the Licensee's SPEAKOUT Program

GENERAL NOTE: More Modules will be required to be added as the scope of Restart Issue Inspections are determined

ATTACHED IS THE INFORMATION TO BE USED FOR  
THE QPPR FOR

## **SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION**

THE QPPR DISCUSSION WILL BE HELD IN THE DRP  
CONFERENCE ROOM

**0930 HOURS  
JULY 14, 1993**

B. BEACH  
P. GWYNN  
P. HARRELL  
S. COLLINS  
A. HOWELL  
T. WESTERMAN  
L. CONSTABLE  
D. POWERS  
I. BARNES  
J. PELLET  
J. CALLAN  
D. CHAMBERLAIN  
B. MURRAY  
SRI\*  
PM\*  
\* SENT VIA E-MAIL

# SOUTH TEXAS PROJECT

## EXECUTIVE SUMMARY

SALP CYCLE 010

(AUGUST 2, 1992 THRU SEPTEMBER 11, 1993)

FINAL

JULY 14, 1993

### I. OVERVIEW

Both units have remained shutdown the entire quarter, as a result of turbine-driven auxiliary feedwater pump operability concerns and other issues. Declining performance trends have continued in the areas of plant operations, maintenance/surveillance, emergency preparedness, engineering/technical support, and safety assessment/quality verification. Numerous operator performance inadequacies have been identified in routine and special inspections; the licensee's corrective action program still has not been effective in recognizing, documenting, and correcting problems; and the maintenance and engineering backlogs have increased, with no visible indications that licensee management is able to reduce these backlogs. The DET identified performance deficiencies in the areas of operations, maintenance and testing, and engineering support as well as weaknesses in management that contributed to these deficiencies.

### II. PERFORMANCE INDICATORS

Quarter 92-04

Analysis: Review of the performance indicators did not reveal that any MIP changes were required.

### III. SUMMARY OF SIGNIFICANT REGULATORY ISSUES

A summary of significant regulatory issues include the following:

- Severity Level III w/ a civil penalty of \$75,000 issued concerning the failure of licensee management to inform licensed operators of potentially significant conditions that could have affected the operation of the plant.
- Severity Level III w/ a civil penalty of \$25,000 issued concerning eight examples of failures to adhere to procedural requirements regarding self-verification that primarily involved the failure to verify the correct unit, correct train, or correct device before conducting testing or maintenance activities.
- Severity Level III w/ a civil penalty of \$75,000 issued concerning the failure to take corrective actions for a failed motor on a motor operated valve in the Unit 2 Low Head Safety Injection System.
- Severity Level III w/ a civil penalty of \$325,000 issued concerning a followup inspection to the AIT which identified eight apparent

violations; including one where the inappropriate voiding of a post maintenance test on a Unit 1 EDG resulted in its inoperability for 24 days and a second concerning an inadequate TDAFWP surveillance test program that resulted in the Unit 1 TDAFWP being inoperable for 33 days.

- A special inspection identified a condition that had existed since initial startup where under a steam line break accident scenario, the SSPS might not have been capable of initiating an ESF signal necessary to mitigate the consequence of the accident. An enforcement conference was conducted May 6, 1993. The SSPS was determined to be operable and one severity Level IV violation involving design control was not cited.
- Two special inspections are pending, each is being considered for escalated enforcement. The first inspection concerns several environmental qualification, adequacy of design, and corrective action issues with both unit's feedwater isolation bypass valves. The second inspection concerns licensed and non-licensed operator performance issues that resulted in spent fuel pool cooling being lost for approximately 17 hours.
- STP was placed on the list of plants that are considered poor performers, based on the June 1993, Senior Managers' Meeting.

#### IV. PLANT OPERATIONS

##### PREVIOUS RATINGS

SALP 91: 2          92: 2          QPPR 01-93: (NC) 02-93: (NC) 03-93: (-)

**PERFORMANCE ASSESSMENT:** (-) performance trend. Weaknesses in operator performance has been noted in numerous instances. Maintaining minimum shift crew composition during Mode 4 operation was identified as a violation of TS requirements. A reactivity management issue was identified when plant operators accidentally diluted the reactor coolant system while they were attempting to add boron to the reactor coolant system. The cause of these events were human error. A failure to follow procedures resulted in the loss of a nonclass electrical buss, which led to an unplanned reactor coolant system cooldown. Multiple violations of TS occurred when the plant operators failed to maintain an operable boron injection flow path and centrifugal charging pump during control rod testing. A violation of TS occurred when the plant operators failed to place two ventilation trains in the mode required by an action statement within the required time interval. The causes of these events were inadequate operability tracking log review and postmaintenance testing.

A special inspection report, presently in draft, identified two examples of operator inadequacies in not conducting adequate shift turnovers and not performing thorough tours of the fuel handling building.

V. RADIOLOGICAL CONTROLS

PREVIOUS RATINGS

SALP 91: 1            92: 1            QPPR 01-93: (-) 02-93: (-) 03-93: (NC)

**PERFORMANCE ASSESSMENT:** No change performance trend. Excellent external radiation exposure controls were maintained. The content of pre-job briefings and job coverage by radiation protection personnel were excellent and excellent performance in the control of radioactive materials and contamination with a low number of personnel contaminations occurring. Total radiation exposures for the last refueling outage and for 1992 exceeded the licensee's goals; however, this was the result of the outage duration being extended. All the elements of a superior internal exposure control program were implemented. Radiological housekeeping within the radiological controlled area was good. Management's commitment to maintaining radiation exposures ALARA was strong.

VI. MAINTENANCE/SURVEILLANCE

PREVIOUS RATINGS

SALP 91: 2            92: 2D            QPPR 01-93: (-) 02-93: (-) 03-93: (-)

**PERFORMANCE ASSESSMENT:** (-) performance trend. Significant escalated and non-escalated enforcement actions have been taken by the Region as a result of continued poor licensee performance. In addition, the DET identified significant weaknesses in the area of maintenance.

VII. EMERGENCY PREPAREDNESS

PREVIOUS RATINGS

SALP 91: 2            92: 2            QPPR 01-93: (NC) 02-93: (NC) 03-93: (-)

**PERFORMANCE ASSESSMENT:** (-) performance trend. Six exercise weaknesses were identified during the annual exercise that was conducted in this quarter; several of the weaknesses were similar to weaknesses identified in the previous year's exercise which indicates a lack of focus by the licensee to correct previously identified problems. In addition, a marginally acceptable exercise scenario was originally submitted by the licensee early in the quarter and prior to the exercise. This scenario required revision by the licensee prior to meeting the standards required to permit adequate NRC assessment of licensee emergency preparedness performance.

## VIII. SECURITY

### PREVIOUS RATINGS

SALP 91: 1      92: 2      QPPR 01-93: (NC) 02-93: (NC) 03-93: (-)

**PERFORMANCE ASSESSMENT:** (-) performance trend. A significant number of allegations and licensee sponsored Speakout concerns are indicative of an excessive use of overtime due to excessive compensatory postings which has negatively impacted employee morale. A vulnerability was discovered in the security system by instrumentation and controls technicians; it did not appear that the root cause of the problem was pursued in a timely manner by security management. This also affected the timely implementation of compensatory measures and the licensee was slow at times to implement compensatory measures. The licensee continued to experience assessment aids problems.

## IX. ENGINEERING/TECHNICAL SUPPORT

### PREVIOUS RATINGS

SALP 91: 2I      92: 2      QPPR 01-93: (NC) 02-93: (NC) 03-93: (-)

**PERFORMANCE ASSESSMENT:** (-) performance trend. Several weaknesses, many significant, have been identified during this quarter. The licensee's vendor information program was weak; emergency diesel generators lack adequate vendor support and several control rods remain stuck in Unit 1 as a result of inadequate utilization of vendor information. Several engineering weaknesses were identified in a special inspection concerning the operability of MOVs. The licensee identified that five Unit 1 residual heat removal suction isolation valves had been torqued to levels exceeding 110 percent of the nominal actuator rating for approximately 50 cycles; the unacceptable operability determination of the overtorque condition was similar to a previous violation issued for unacceptable determinations of operability for valves that were subject to excessive thrust. An apparent inadequate engineering evaluation of the incorrect overcurrent setpoint in several molded case circuit breakers that rendered containment isolation valves inoperable remains unresolved pending further NRC review. Weakness were identified in the licensee's boric acid corrosion prevention program. In addition, the DET identified significant weaknesses in the quality of engineering support and the size of the engineering backlog.

## X. SAFETY ASSESSMENT/QUALITY VERIFICATION

### PREVIOUS RATINGS

SALP 90: 1D      91: 2      QPPR 01-93: (-) 02-93: (-) 03-93: (-)

**PERFORMANCE ASSESSMENT:** (-) performance trend. Significant escalated and non-escalated enforcement actions have been taken by the Region as a result of continued poor licensee performance. In addition, the DET identified significant weaknesses in the licensee's corrective action program.

XI. OFFICE OF NUCLEAR REACTOR REGULATION (NRR) ACTIVITIES

No input from NRR during this period.

XII. ATTACHMENTS

1. MIPS 2 Report
2. IFS 1 Report



**SUMMARY OF MIP CHANGES  
STP-UNIT 1 QPPR MEETING  
JULY 14, 1993**

MODULE	TITLE	AREA	ADD/ CHANGE	FM	TO	DELTA
71707	MONTHLY RESIDENT - ADD AN ADDITIONAL 6 OCCURRENCES	OPS	A	0	354 <sup>1</sup>	+354
64704	FIRE PROTECTION/PREVENTION PROGRAM	OPS	A&C	0	R <sup>2</sup>	NA
71500	BALANCE OF PLANT	OPS	A&C	0	R <sup>2</sup>	NA
71710	ESF SYSTEM WALKDOWN	OPS	A&C	0	R <sup>2</sup>	NA
71715	SUSTAINED CONTROL ROOM & PLANT OBSERVATION	OPS	A&C	0	R <sup>2</sup>	NA
93702-03	PROMPT ONSITE RESPONSE TO EVENTS	OPS	A&C	0	R <sup>2</sup>	NA
61700	SURV PROCEDURES & RECORDS	MS	A&C	0	R <sup>2</sup>	NA
61701-03	COMPLEX SURV	MS	A&C	0	R <sup>4</sup>	NA
61726-18	SURV OBSERVATION	MS	A&C	0	R <sup>2</sup>	NA
62703-20	MAINT OBSERVATION	MS	A&C	0	R <sup>2</sup>	NA
62704	INSTRUMENTATION MAINT	MS	A&C	0	R <sup>4</sup>	NA
62705	ELECTRICAL MAINT	MS	A&C	0	R <sup>4</sup>	NA
73756	IST OF PUMPS & VALVES	MS	A&C	0	R <sup>2</sup>	NA
61726	SURV OBSERVATION - ADD AN ADDITIONAL 6 OCCURRENCES	MS	A	0	45 <sup>1</sup>	+45
62703	MAINT OBSERVATION - ADD AN ADDITIONAL 6 OCCURRENCES	MS	A	0	67 ½ <sup>1</sup>	+67 ½
62700-02	MAINT PRACTICES	MS	C	M	R <sup>2</sup>	-41
62700-03	MAINT PRACTICES	MS	C	M	R <sup>2</sup>	+½
62700-04	MAINT PRACTICES	MS	C	M	R <sup>2</sup>	-3
82205	STAFFING & AUGMENTATION	EP	C	N	R <sup>3</sup>	00
81042-01	TESTING AND MAINT	SEC	C	M	R <sup>3</sup>	+½
81042-02	TESTING AND MAINT	SEC	C	M	R <sup>3</sup>	-2 ½
37700	DESIGN CHANGE AND MODS	ETS	C	N	R <sup>2</sup>	-30

37700	DESIGN, DESIGN CHANGES, & MODS	ETS	A	0	18 <sup>5</sup>	+18
37701	FACILITY MODIFICATIONS	ETS	A&C	0	R <sup>2</sup>	NA
37828	INSTALLATION AND TESTING OF MODS	ETS	A&C	0	R <sup>2</sup>	NA
72701	MODIFICATION TESTING	ETS	A&C	0	R <sup>2</sup>	NA
93801	SAFETY SYSTEM FUNCTIONAL INSPECTION	ETS	A&C	0	R <sup>4</sup>	NA
35702	INSPECTION OF QUALITY VERIFICATION FUNCTION	SA/QV	A&C	0	R <sup>2</sup>	NA
38701	PROCUREMENT PROGRAM	SA/QV	A&C	0	R <sup>4</sup>	NA
38702	RECEIPT STORAGE & HANDLING PROGRAM	SA/QV	A&C	0	R <sup>4</sup>	NA
39702	DOCUMENT CONTROL PROGRAM	SA/QV	A&C	0	R <sup>4</sup>	NA
40500	SAFETY ASSESSMENT	SA/QV	C	N	R <sup>2</sup>	-20
40704	IMPLEMENTATION & AUDIT PROGRAM	SA/QV	A&C	0	R <sup>2</sup>	NA
54834	HOUSEKEEPING CONTROL	SA/QV	A&C	0	R <sup>2</sup>	NA
90700	FEEDBACK OF OPERATIONAL EXPERIENCE	SA/QV	A&C	0	R <sup>2</sup>	NA
92720	CORRECTIVE ACTION	SA/QV	A&C	0	R <sup>2</sup>	NA
92700	ONSITE LER REVIEW	SA/QV	C	75	100 <sup>1</sup>	+25
92701	OPEN ITEM FOLLOWUP	SA/QV	C	60	100 <sup>1</sup>	+40
92702	CORRECTIVE ACTION - VIOLATIONS AND DEVIATIONS	SA/QV	C	30	50 <sup>1</sup>	+20
93804	RISK-BASED OPERATIONAL SAFETY & PERFORMANCE INSPECTION	SA/QV	A&C	0	R <sup>3</sup>	NA
<b>NET CHANGE</b>						<b>+474</b>

<sup>1</sup>Justification: SALP end date has been deferred due to the DET

<sup>2</sup>DET has completed 100% of this module; annotate on MIP by R (Reference)

<sup>3</sup>DET has completed 25% of this module; annotate on MIP by R (Reference)

<sup>4</sup>DET has completed 50% of this module; annotate on MIP by R (Reference)

<sup>5</sup>Review Toxic Gas Monitor Modifications

**SUMMARY OF MIP CHANGES  
STP-UNIT 2 QPPR MEETING  
JULY 14, 1993**

MODULE	TITLE	AREA	ADD/ CHANGE	FM	TO	DELTA
71707	MONTHLY RESIDENT - ADD AN ADDITIONAL 6 OCCURRENCES	OPS	A	0	354 <sup>1</sup>	+354
60710	REFUELING ACTIVITIES	OPS	C	22	42 <sup>5</sup>	+20
64704	FIRE PROTECTION/PREVENTION PROGRAM	OPS	A&C	0	R <sup>2</sup>	NA
71500	BALANCE OF PLANT	OPS	A&C	0	R <sup>2</sup>	NA
71710	ESF SYSTEM WALKDOWN	OPS	A&C	0	R <sup>2</sup>	NA
71715	SUSTAINED CONTROL ROOM & PLANT OBSERVATION	OPS	A&C	0	R <sup>2</sup>	NA
93702-02	PROMPT ONSITE RESPONSE TO EVENTS	OPS	A&C	0	R <sup>2</sup>	NA
61700	SURV PROCEDURES & RECORDS	MS	A&C	0	R <sup>2</sup>	NA
61701-01	COMPLEX SURV	MS	A&C	0	R <sup>4</sup>	NA
61726-18	SURV OBSERVATION	MS	A&C	0	R <sup>2</sup>	NA
62703-20	MAINT OBSERVATION	MS	A&C	0	R <sup>2</sup>	NA
62704	INSTRUMENTATION MAINT	MS	A&C	0	R <sup>4</sup>	NA
62705	ELECTRICAL MAINT	MS	A&C	0	R <sup>4</sup>	NA
73753-02	ISI	MS	C	16	0	-16
73756	IST OF PUMPS & VALVES	MS	C	0	R <sup>4</sup>	NA
61726	SURV OBSERVATION - ADD AN ADDITIONAL 6 OCCURRENCES	MS	A	0	45 <sup>1</sup>	+45
62703	MAINT OBSERVATION - ADD AN ADDITIONAL 6 OCCURRENCES	MS	A	0	67 1/2 <sup>1</sup>	+67 1/2
62700-02	MAINT PRACTICES	MS	C	M	R <sup>2</sup>	-41 1/2
62700-03	MAINT PRACTICES	MS	C	M	R <sup>2</sup>	00
62700-04	MAINT PRACTICES	MS	C	M	R <sup>2</sup>	00
82205	STAFFING & AUGMENTATION	EP	C	N	R <sup>3</sup>	00
81042-01	TESTING AND MAINT	SEC	C	M	R <sup>3</sup>	+ 1/2

81042-02	TESTING AND MAINT	SEC	C	M	R <sup>3</sup>	-2½
37700	DESIGN CHANGE AND MODS	ETS	C	N	R <sup>2</sup>	-30
37700-02	DESIGN, DESIGN CHANGES, & MODS	ETS	A	0	17 <sup>6</sup>	+17
37701	FACILITY MODIFICATIONS	ETS	A&C	0	R <sup>2</sup>	NA
37828	INSTALLATION AND TESTING OF MODS	ETS	A&C	0	R <sup>2</sup>	NA
72701	MODIFICATION TESTING	ETS	A&C	0	R <sup>2</sup>	NA
93801	SAFETY SYSTEM FUNCTIONAL INSPECTION	ETS	A&C	0	R <sup>4</sup>	NA
35702	INSPECTION OF QUALITY VERIFICATION FUNCTION	SA/QV	A&C	0	R <sup>2</sup>	NA
38701	PROCUREMENT PROGRAM	SA/QV	A&C	0	R <sup>4</sup>	NA
38702	RECEIPT STORAGE & HANDLING PROGRAM	SA/QV	A&C	0	R <sup>4</sup>	NA
39702	DOCUMENT CONTROL PROGRAM	SA/QV	A&C	0	R <sup>4</sup>	NA
40500	SAFETY ASSESSMENT	SA/QV	C	N	R <sup>2</sup>	-20
40704	IMPLEMENTATION & AUDIT PROGRAM	SA/QV	A&C	0	R <sup>2</sup>	NA
54834	HOUSEKEEPING CONTROL	SA/QV	A&C	0	R <sup>2</sup>	NA
90700	FEEDBACK OF OPERATIONAL EXPERIENCE	SA/QV	A&C	0	R <sup>2</sup>	NA
92720	CORRECTIVE ACTION	SA/QV	A&C	0	R <sup>2</sup>	NA
92700	ONSITE LER REVIEW	SA/QV	C	75	175 <sup>1</sup>	+100
92701	OPEN ITEM FOLLOWUP	SA/QV	C	60	100 <sup>1</sup>	+40
92702	CORRECTIVE ACTION - VIOLATIONS AND DEVIATIONS	SA/QV	C	30	45 <sup>1</sup>	+15
93804	RISK-BASED OPERATIONAL SAFETY & PERFORMANCE INSPECTION	SA/QV	A&C	0	R <sup>3</sup>	NA
<b>NET CHANGE</b>						<b>+549</b>

<sup>1</sup>Justification: SALP end date has been deferred due to the DET

<sup>2</sup>DET has completed 100% of this module; annotate on MIP by R (Reference)

<sup>3</sup>DET has completed 25% of this module; annotate on MIP by R (Reference)

<sup>4</sup>DET has completed 50% of this module; annotate on MIP by R (Reference)

<sup>5</sup>Extended refueling outage in unit 2

<sup>6</sup>Review Toxic Gas Monitor Modifications

ATTACHED IS THE INFORMATION TO BE USED FOR  
THE QPPR FOR

## **SOUTH TEXAS PROJECT**

THE QPPR DISCUSSION WILL BE HELD IN THE DRP  
CONFERENCE ROOM

**0930 HOURS**  
**MARCH 24, 1993**

B. BEACH  
P. GWYNN  
T. STETKA  
M. SATORIUS  
P. HARRELL  
S. COLLINS  
A. HOWELL  
T. WESTERMAN  
L. CONSTABLE  
D. POWERS  
I. BARNES  
J. PELLET  
J. CALLAN  
D. CHAMBERLAIN  
B. MURRAY  
SRI\*  
PM\*  
\* SENT VIA E-MAIL

## EXECUTIVE SUMMARY

SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION  
SALP CYCLE 010  
(AUGUST 2, 1992, THRU SEPTEMBER 11, 1993)

### I. OVERVIEW

Both units have remained shutdown since February 3, 1993, as a result of turbine driven auxiliary feedwater pump operability concerns and other issues. Unit 2 entered its third refueling outage on February 27, 1993. Declining performance trends have been observed in the areas of plant operations, radiological controls, maintenance/surveillance, engineering/technical support, and safety assessment/quality verification. Numerous examples of little or inadequate corrective actions taken for known Technical Specification governed equipment problems, poor maintenance practices, and ineffective post-maintenance testing and corrective maintenance have been identified during the Operational Safety Team Inspection (OSTI), several special inspections initiated to resolve issues, and the Augmented Inspection Team (AIT) inspection.

### II. PERFORMANCE INDICATORS

Quarter 92-04

Analysis: Review of the performance indicators did not reveal that any MIP changes were required.

### III. SUMMARY OF SIGNIFICANT REGULATORY ISSUES

A summary of significant regulatory issues include the following:

- Two enforcement conferences were conducted on March 8, 1993, concerning the TS 3.0.3 issue on May 17, 1992, and eight examples of a failure of the licensee's self-verification program. The resolution of both of these issues is pending the concurrence of the Office of Enforcement.
- An enforcement conference is scheduled for March 25, 1993, to address the operability of a number of motor-operated valves (MOVs) in the residual heat removal system and the low head safety-injection system, and the repeated failure of the licensee's corrective action program to identify and correct problems.
- A special inspection was completed on March 17, 1993, concerning the operability of the solid state protection system (SSPS). Although in draft, a number of violations were identified, with one being considered for escalated enforcement.
- A special inspection was completed on March 12, 1993, concerning the regulatory issues identified during the AIT. Although in draft, ten apparent violations were identified, with two being considered for escalated enforcement.
- A special inspection is presently ongoing concerning the steam generator manway leakage.
- During the quarter, there were nine severity level IV violations cited in both units: one each in OPs, RC and SA/QV, five in M/S, and three in E/TS.

*add det and basis for deferral of RI in the 4 major functional areas*

- The routine resident inspection, which is in draft, has identified two additional severity level IV violations in OPs and M/S.
- STP was discussed at the January 1993, Senior Managers' Meeting.

**IV. PLANT OPERATIONS**

**PREVIOUS RATINGS**

SALP 91: 2      92: 2      QPPR 01-93: (NC)

**STRENGTHS:** The OSTI findings indicate that operators are generally motivated and perform their duties in a professional manner. Operators' performance during the operating examinations was good.

**WEAKNESSES:** Both Unit 2 senior reactor operator watchstanders were absent from the control room for a period of approximately 45 seconds. An EDG was unintentionally tripped during a maintenance run because of inadequate venting of the lubricating oil piping. There appeared to be a lack of operations commitment to training needs identification.

*add*  
**PERFORMANCE ASSESSMENT WITH RECOMMENDATIONS:** Performance in this functional area was mixed. (NC) Trend.  
*any operator tripped out Protoms computer, ECW wrong valve wrong Train*

**RECOMMENDED MIP REVISIONS:**

None

**V. RADIOLOGICAL CONTROLS**

**PREVIOUS RATINGS**

SALP 91: 1      92: 1      QPPR 01-93: (-)

**STRENGTHS:** None noted during this QPPR period.

**WEAKNESSES:** An individual left and reentered the radiologically restricted area on several occasions, without frisking, while transferring storage drums. An individual violated a radiological posting by entering the control room while a radiation detector surveillance was in progress. Numerous problems with the plant's toxic gas monitors were experienced because of equipment malfunctions. Two examples of the failure to adhere to TS requirements were identified. A licensee HP was observed entering the radiological control area without the required dosimetry.

**PERFORMANCE ASSESSMENT WITH RECOMMENDATIONS:** Licensee performance has degraded during the assessment period. (-) Trend.

**RECOMMENDED MIP REVISIONS:**

## VI. MAINTENANCE AND SURVEILLANCE

### PREVIOUS RATINGS

SALP 91: 2            92: 2D            QPPR 01-93: (-)

**STRENGTHS:** Three surveillance tests were witnessed and good self-verification and supervisory oversight were observed. Two complex surveillances were effectively performed. In general, the OSTI found that work activities were conducted in accordance with procedure requirements.

**WEAKNESSES:** Personnel errors occurred which resulted in eight examples of work being performed on the wrong component, train, and unit. Numerous examples of repetitive corrective maintenance included a repetitive corrective maintenance activity on the Unit 2 turbine-driven auxiliary feedwater pump; an electrical load sequence problem with an essential chiller; and toxic gas monitors. The licensee's implementation of their lubrication control program was poor. Both units were required to shut down because of the discovery of incorrectly calibrated components caused by deficient surveillance procedures.

A significant number of escalated enforcement issues are pending, involving inadequate corrective maintenance conducted on MOVs, EDGs, and TDAFWPs on both units.

**PERFORMANCE ASSESSMENT WITH RECOMMENDATIONS:** The licensee continues to experience problems in this functional area. Numerous maintenance related personnel errors and degraded/failed equipment caused by a lack of preventive and corrective maintenance are indicative of a declining trend in this area.  
(-) Trend.

**RECOMMENDED MIP REVISIONS:**

## VII. EMERGENCY PREPAREDNESS

### PREVIOUS RATINGS

SALP 91: 2            92: 2            QPPR 01-93: (NC)

No inspections have been completed in this functional area for this QPPR period.

**PERFORMANCE ASSESSMENT WITH RECOMMENDATIONS:** (NC) Trend.

**RECOMMENDED MIP REVISIONS:** None



VIII. SECURITY

PREVIOUS RATINGS

SALP 91: 1            92: 2            QPPR 01-93: (NC)

*OSRE - Good performer*

**STRENGTHS:** Some improvement was noted in the picture quality of assessment aids. Effective action had been taken to identify prepositioned compensatory post locations

**WEAKNESSES:** The OSTI noted that security personnel were not always responsive to operators.

**PERFORMANCE ASSESSMENT WITH RECOMMENDATIONS:** (NC) Trend.

**RECOMMENDED MIP REVISIONS:**

IX. ENGINEERING AND TECHNICAL SUPPORT

PREVIOUS RATINGS

SALP 91: 2I            92: 2            QPPR 01-93: (NC)

**STRENGTHS:** Evaluators' performance during the operating examinations was good. The training department appeared effective in implementing the licensed operator requalification training program; however, the training department did not have an approved biennial licensed operator training plan..

*NOU - 2515/117*

**WEAKNESSES:** The Unit 1 fourth refueling outage was completed several weeks behind schedule because of refueling equipment problems, unanticipated emergency diesel generator rework, and a leak that developed on a control rod drive mechanism.

*add engineering weakness on MOVs 93-08*

**PERFORMANCE ASSESSMENT WITH RECOMMENDATIONS:** Performance was mixed. (NC) Trend.

**RECOMMENDED MIP REVISIONS:** None

X. SAFETY ASSESSMENT AND QUALITY VERIFICATION

PREVIOUS RATINGS

SALP 90: 1D            91: 2            QPPR 01-93: (-)

**STRENGTHS:** None noted during this QPPR period.

**WEAKNESSES:** Four Unit 1 residual heat removal pump trips, occurring in an 11-day period, were caused, in part, by procedure weaknesses and operator inattention. A station problem report (SPR) was not initiated until the

fourth occurrence. The OSTI identified five examples where safety-related equipment or program implementation deficiencies were not properly identified or inadequate corrective actions were taken. The inadequacy of corrective actions for a number of MOVs was the subject of a special inspection that has resulted in escalated enforcement. Inadequate corrective action was determined to be a contributing cause to the Unit 1's TDAFWP being in an inoperability condition for approximately six weeks. One apparent violation was identified that involved eight examples of a failure to follow procedural requirements for performing self-verification; a second apparent violation was identified concerning the failure to initiate an SPR concerning the May 17, 1992, TS 3.0.3 issue. These actions were the subject of an enforcement conference.

**PERFORMANCE ASSESSMENT WITH RECOMMENDATIONS:** The licensee's performance appears to have declined. (-) Trend.

**RECOMMENDED MIP REVISIONS:**

**XI. OFFICE OF NUCLEAR REACTOR REGULATION (NRR) ACTIVITIES**

The NRR input related to STP for the January 1993 QPPR consists of observations in the functional areas of E/TS and SA/QV:

E/TS

The licensee's review of the design for the toxic gas monitor modification was less than adequate in that it did not identify that a tripped channel could become "untripped" without operator action.

SA/QV

The general quality of submittals has been good, although on some occasions additional information was required and provided by the licensee. There was one instance where a request for additional information was untimely and delayed the completion of an amendment.

**ENCLOSURES:**

MIPS 2 REPORT - INSPECTION PROGRAM STATUS

IFS 1 REPORT - OPEN ITEM LIST BY ORGANIZATIONAL CODE

ATTACHED IS THE INFORMATION TO BE USED FOR  
THE QPPR FOR

## **SOUTH TEXAS PROJECT**

THE QPPR DISCUSSION WILL BE HELD IN THE DRP  
CONFERENCE ROOM

**0930 HOURS**  
**MARCH 24, 1993**

B. BEACH  
P. GWYNN  
T. STETKA  
N. SATORIUS  
P. HARRELL  
S. COLLINS  
A. HOWELL  
T. WESTERMAN  
L. CONSTABLE  
D. POWERS  
I. BARNES  
J. PELLET  
J. CALLAN  
D. CHAMBERLAIN  
B. MURRAY  
SRI\*  
PM\*  
\* SENT VIA E-MAIL

**EXECUTIVE SUMMARY**  
**SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION**  
**SALP CYCLE 010**  
**(AUGUST 2, 1992, THRU SEPTEMBER 11, 1993)**

**I. OVERVIEW**

Both units have remained shutdown since February 3, 1993, as a result of turbine driven auxiliary feedwater pump operability concerns and other issues. Unit 2 entered its third refueling outage on February 27, 1993. Declining performance trends have been observed in the areas of plant operations, radiological controls, maintenance/surveillance, engineering/technical support, and safety assessment/quality verification. Numerous examples of little or inadequate corrective actions taken for known Technical Specification governed equipment problems, poor maintenance practices, and ineffective post-maintenance testing and corrective maintenance have been identified during the Operational Safety Team Inspection (OSTI), several special inspections initiated to resolve issues, and the Augmented Inspection Team (AIT) inspection.

**II. PERFORMANCE INDICATORS**

Quarter 92-04

Analysis: Review of the performance indicators did not reveal that any MIP changes were required.

**III. SUMMARY OF SIGNIFICANT REGULATORY ISSUES**

A summary of significant regulatory issues include the following:

- Two enforcement conferences were conducted on March 8, 1993, concerning the TS 3.0.3 issue on May 17, 1992, and eight examples of a failure of the licensee's self-verification program. The resolution of both of these issues is pending the concurrence of the Office of Enforcement.
- An enforcement conference is scheduled for March 25, 1993, to address the operability of a number of motor-operated valves (MOVs) in the residual heat removal system and the low head safety-injection system, and the repeated failure of the licensee's corrective action program to identify and correct problems.
- A special inspection was completed on March 9, 1993, concerning the operability of the solid state protection system (SSPS). Although in draft, a number of violations were identified, with one being considered for escalated enforcement.
- A special inspection was completed on March 12, 1993, concerning the regulatory issues identified during the AIT. Although in draft, ten apparent violations were identified, with two being considered for escalated enforcement.
- A special inspection is presently ongoing concerning the steam generator manway leakage.
- During the quarter, there were nine severity level IV violations cited in both units: one each in OPs, RC and SA/QV, five in M/S, and three in E/TS.

- The routine resident inspection, which is in draft, has identified two additional severity level IV violations in OPs and M/S.
- STP was discussed at the January 1993, Senior Managers' Meeting.

#### IV. PLANT OPERATIONS

##### PREVIOUS RATINGS

SALP 91: 2            92: 2            QPPR 01-93: (NC)

**STRENGTHS:** The OSTI findings indicate that operators are generally motivated and perform their duties in a professional manner. Operators' performance during the operating examinations was good.

**WEAKNESSES:** Both Unit 2 senior reactor operator watchstanders were absent from the control room for a period of approximately 45 seconds. An EDG was unintentionally tripped during a maintenance run because of inadequate venting of the lubricating oil piping. There appeared to be a lack of operations commitment to training needs identification.

**PERFORMANCE ASSESSMENT WITH RECOMMENDATIONS:** Performance in this functional area was mixed. (NC) Trend.

##### RECOMMENDED MIP REVISIONS:

None

#### V. RADIOLOGICAL CONTROLS

##### PREVIOUS RATINGS

SALP 91: 1            92: 1            QPPR 01-93: (-)

**STRENGTHS:** None noted during this QPPR period.

**WEAKNESSES:** An individual left and reentered the radiologically restricted area on several occasions, without frisking, while transferring storage drums. An individual violated a radiological posting by entering the control room while a radiation detector surveillance was in progress. Numerous problems with the plant's toxic gas monitors were experienced because of equipment malfunctions. Two examples of the failure to adhere to TS requirements were identified. A licensee HP was observed entering the radiological control area without the required dosimetry.

**PERFORMANCE ASSESSMENT WITH RECOMMENDATIONS:** Licensee performance has degraded during the assessment period. (-) Trend.

##### RECOMMENDED MIP REVISIONS:

## **VI. MAINTENANCE AND SURVEILLANCE**

### **PREVIOUS RATINGS**

SALP 91: 2            92: 2D            QPPR 01-93: (-)

**STRENGTHS:** Three surveillance tests were witnessed and good self-verification and supervisory oversight were observed. Two complex surveillances were effectively performed. In general, the OSTI found that work activities were conducted in accordance with procedure requirements.

**WEAKNESSES:** Personnel errors occurred which resulted in eight examples of work being performed on the wrong component, train, and unit. Numerous examples of repetitive corrective maintenance included a repetitive corrective maintenance activity on the Unit 2 turbine-driven auxiliary feedwater pump; an electrical load sequence problem with an essential chiller; and toxic gas monitors. The licensee's implementation of their lubrication control program was poor. Both units were required to shut down because of the discovery of incorrectly calibrated components caused by deficient surveillance procedures.

A significant number of escalated enforcement issues are pending, involving inadequate corrective maintenance conducted on MOVs, EDGs, and TDAFWPs on both units.

**PERFORMANCE ASSESSMENT WITH RECOMMENDATIONS:** The licensee continues to experience problems in this functional area. Numerous maintenance related personnel errors and degraded/failed equipment caused by a lack of preventive and corrective maintenance are indicative of a declining trend in this area. (-) Trend.

**RECOMMENDED MIP REVISIONS:**

## **VII. EMERGENCY PREPAREDNESS**

### **PREVIOUS RATINGS**

SALP 91: 2            92: 2            QPPR 01-93: (NC)

No inspections have been completed in this functional area for this QPPR period.

**PERFORMANCE ASSESSMENT WITH RECOMMENDATIONS:** (NC) Trend.

**RECOMMENDED MIP REVISIONS:** None

## VIII. SECURITY

### PREVIOUS RATINGS

SALP 91: 1            92: 2            QPPR 01-93: (NC)

**STRENGTHS:** Some improvement was noted in the picture quality of assessment aids. Effective action had been taken to identify prepositioned compensatory post locations.

**WEAKNESSES:** The OSTI noted that security personnel were not always responsive to operators.

**PERFORMANCE ASSESSMENT WITH RECOMMENDATIONS:** (NC) Trend.

**RECOMMENDED MIP REVISIONS:**

## IX. ENGINEERING AND TECHNICAL SUPPORT

### PREVIOUS RATINGS

SALP 91: 2I            92: 2            QPPR 01-93: (NC)

**STRENGTHS:** Evaluators' performance during the operating examinations was good. The training department appeared effective in implementing the licensed operator requalification training program; however, the training department did not have an approved biennial licensed operator training plan..

**WEAKNESSES:** The Unit 1 fourth refueling outage was completed several weeks behind schedule because of refueling equipment problems, unanticipated emergency diesel generator rework, and a leak that developed on a control rod drive mechanism.

**PERFORMANCE ASSESSMENT WITH RECOMMENDATIONS:** Performance was mixed. (NC) Trend.

**RECOMMENDED MIP REVISIONS:** None

## X. SAFETY ASSESSMENT AND QUALITY VERIFICATION

### PREVIOUS RATINGS

SALP 90: 1D            91: 2            QPPR 01-93: (-)

**STRENGTHS:** None noted during this QPPR period.

**WEAKNESSES:** Four Unit 1 residual heat removal pump trips, occurring in an 11-day period, were caused, in part, by procedure weaknesses and operator inattention. A station problem report (SPR) was not initiated until the

fourth occurrence. The OSTI identified five examples where safety-related equipment or program implementation deficiencies were not properly identified or inadequate corrective actions were taken. The inadequacy of corrective actions for a number of MOVs was the subject of a special inspection that has resulted in escalated enforcement. Inadequate corrective action was determined to be a contributing cause to the Unit 1's TDAFWP being in an inoperability condition for approximately six weeks. One apparent violation was identified that involved eight examples of a failure to follow procedural requirements for performing self-verification; a second apparent violation was identified concerning the failure to initiate an SPR concerning the May 17, 1992, TS 3.0.3 issue. These actions were the subject of an enforcement conference.

**PERFORMANCE ASSESSMENT WITH RECOMMENDATIONS:** The licensee's performance appears to have declined. (-) Trend.

**RECOMMENDED MIP REVISIONS:**

**XI. OFFICE OF NUCLEAR REACTOR REGULATION (NRR) ACTIVITIES**

The NRR input related to STP for the January 1993 QPPR consists of observations in the functional areas of E/TS and SA/QV:

E/TS

The licensee's review of the design for the toxic gas monitor modification was less than adequate in that it did not identify that a tripped channel could become "untripped" without operator action.

SA/QV

The general quality of submittals has been good, although on some occasions additional information was required and provided by the licensee. There was one instance where a request for additional information was untimely and delayed the completion of an amendment.

**ENCLOSURES:**

MIPS 2 REPORT - INSPECTION PROGRAM STATUS

IFS 1 REPORT - OPEN ITEM LIST BY ORGANIZATIONAL CODE



DOCKET: 050-00498 SOUTH TEXAS 1

STATUS: OPEN SEVERITY:  
REPORT FROM: TO:  
REPORT ON: ALL ITEMS

OPNG I/R IFS NBR	SEQ	TYPE	LATEST REPORT	SEV/ SPL	REPORT TRANSMITL	STS	CLOSEOUT PROJ/ACT*	CLSOUT ORG	TITLE
89-010	3	IFI			12/31/1989	0	11/25/1991	4304	REFERENCE TO CAPACITY OF THE SECURITY
89-028	1	IFI	92-023		12/31/1989	0		4612	INCORPORATE REVISED DATA SHEETS INTO TEST RESULTS
89-044	1	IFI			01/03/1990	0		4304	SHIELDING AND PROCEDURAL MODIFICATIONS
90-002	4	IFI	00-000		03/08/1990	0	11/25/1991	4614	COMMERCIAL GRADE PROCUREMENTS
90-010	3	IFI			06/05/1990	0	01/14/1992	4304	POOR HABITABILITY CHECK IN TSC
	6	IFI				0	01/14/1992	4304	SCENARIO PROBLEMS
91-003	1	IFI			03/04/1991	0		4304	EMERGENCY RESPONDS PERSONNEL PERFORMANCE
91-005	1	IFI			07/18/1991	0		4611	FUSE CONTROL PROGRAM
91-008	2	LER VIO		4/1	03/15/1991 04/17/1991	0 0		4205 4205	TITLE: PARTIAL LOOP ON TRAINS A AND B CAUSED BY INADEQUATE FAILURE TO LUBRICATE TRIP BREAK ER SHAFT
91-009		LER	91-024		03/11/1991	0		4205	TITLE: DIESEL GENERATOR #12 AND #13 VALID FAILURES DUE TO
91-010	1	VIO		4/7	05/17/1991	0	01/14/1992	4304	LICENSEE FAILED TO PROVIDE INITIAL SUPR. TRAINING
91-011		LER			04/08/1991	0	01/06/1993	4205	MANUAL ESF ACTUATION TOXIC GAS ALARM
91-012	1	EEI	92-032	/3,7	04/29/1991	C	01/19/1993	4205	FALSIFICATION OF DOCUMENTS & PERSONNEL INTEGRITY ISSUES
91-014	1	VIO		4/8	06/12/1991	0		4304	FAILURE TO PERFORM STAFF AUGMENTATION
91-016	1	IFI			07/15/1991	0		4205	CONTROL BOARD DEFICIENCIES
	2	IFI	91-034			0	11/25/1991	4205	OPERATOR OVERTIME ISSUES
91-017	1	LER EEI		/3	07/31/1991	0 0		4205 4304	CONTROL ROOM VENTILATION ACTUATION INADEQUATE SECURITY SEARCHES
91-018	1	EEI	91-008	/1	07/26/1991	C	05/22/1992	4205	AMSAC RELIABILITY
91-019	1	IFI			07/29/1991	0		4205	REVIEW OF VALVE LABELING PROGRAM
	2	IFI				0	01/06/1993	4205	REACTOR VESSEL HEAD VENT SYSTEM ANALYSIS
91-020	5	IFI			10/01/1991	0		4304	INCOMPLETE PAS DURING SITE EVACUATION
	6	IFI				0		4304	SCENARIO INADEQUACIES
91-021	1	VIO		4/3	11/05/1991	0		4304	INADEQUATE VITAL AREA KEY CONTROL

DOCKET: 050 00498 SOUTH TEXAS 1

STATUS: OPEN SEVERITY:  
 REPORT FROM: TO:  
 REPORT ON: ALL ITFMs

OPNG I/R IFS NBR	SEQ	TYPE	LATEST REPORT	SEV/ SPL	REPORT TRANSMITL	STS	CLOSEOUT PROJ/ACT*	CLSOUT ORG	TITLE
91-022		LER			10/14/1991	0		4205	TITLE: REACTOR TRIP DURING PERFORMANCE OF SSPS LOGIC FUNC
91-023	1	EEI		3/1	11/30/1991	0		4205	CONTRACTOR INTEGRITY
91-024		LER			10/31/1991	0		4205	TITLE: A SAFETY ANALYSIS DEFICIENCY CONCERNING THE PRESSU
91-032	1	IFI			01/27/1992	0		4304	ASSESSMENT AIDS
	2	IFI				0		4304	TESTING AND MAINTENANCE
	3	VIO		4/3		0		4304	FAILURE TO CONDUCT PROPER SEARCH ENTERING PA
91-034	3	IFI			02/26/1992	0		4205	ECW WATER HAMMER
92-004		LER				0		4205	SHUNT TRIP CONTACTS FOR MANUAL REACTOR TRIP BREAKERS
92-005		LER			06/08/1992	0		4205	UNPLANNED ESF ACTUATION DUE TO CCW PUMP START
92-006	3	IFI			04/10/1992	0		4611	MOTOR OPERATED VALVES ISSUES
92-007		LER			07/10/1992	0		4205	UNPLANNED ESF ACTUATION OF FHB HVAC SYSTEM
	1	IFI			06/01/1992	0		4614	BACKLOG ON PLANT PERFORMANCE
	2	VIO		4/3		0		4304	ACCESS CONTROL
	3	VIO		4/3		0		4304	PERSONNEL ACCESS CONTROL
92-008	1	IFI			05/22/1992	0		4205	RCS OVERCOOLING
92-009		LER			08/01/1992	0		4205	MANUAL ESF ACUTATION OF AFW PUMP
	1	IFI			06/08/1992	0		4304	TSC NOT CONSISTENT WITH OFFSITE AUTHORITIES
	3	IFI				0		4304	EOF LACK OF GUIDANCE
	4	IFI				0		4304	LACK OF PROPERLY COORDINATING EVACUEES
	5	IFI				0		4304	INADEQUACY OF HANDLING AN INJURED PERSON
92-010		LER			08/08/1992	0		4205	INADVERTENT ESF ACTUATION DUE TO A CCW PUMP START
	1	URI			06/04/1992	0		4304	VERIFICATION OF STAFF AUGUMENTATION METHODS
92-011		LER			08/24/1992	0	01/06/1993	4205	RC PUMP UNDERVOLTAGE AND UNDERFREQUENCY TRIP NOT TESTED
92-012		LER			09/03/1992	0		4205	ENTRY INTO TS 3.0.3 CHANNELS OF DRPI INOPERABLE
92-013		LER			09/15/1992	0		4205	CONTAINMENT SPRAY CHANNELS NOT BEING COMPLETELY VERIFIE
92-014		LER			09/28/1992	0		4205	CVI OCCURRED PRIOR TO EXPECTED ACTUATION DURING SURV. T
	1	IFI			07/08/1992	0		4205	INADVERTENT EXCESS BORATION
	3	IFI	92-026			0	01/06/1993	4205	EDG AVAILABILITY

DOCKET 050 00498 SOUTH TEXAS 1

STATUS: OPEN SEVERITY:  
REPORT FROM: TO:  
REPORT ON: ALL ITEMS

OPNG I/R IFS NBR	SEQ	TYPE	LATEST REPORT	SEV/ SPL	REPORT TRANSMITL	STS	CLOSEOUT PROJ/ACT*	CLSOUT ORG	TITLE
92-015*		SIM	92--26						
	1	LER			10/03/1992	0		4611	MOV'S (GL-89-10/TI2515/109)
		VIO		4/1	08/05/1992	0		4205	UNPLANNED ESF ACTU. CCW PUMP ON OCT 3 OPR. INATTENTION
								4613	FAILURE TO SECURE ADDITIONAL FLOW PATH
92-016		LER			09/28/1992	0		4205	UNPLANNED ESF ACTUATION OF A CCW PUMP INAD. PROC.
92-017		LER			11/11/1992	0		4205	FWI RESPONSE TIME NOT CORRECTLY TESTED PER TS
92-018		LER			10/21/1992	0		4205	VOLUNTARY PRESSURIZER SAFETY VALVE SETPOINTS OUTSIDE TO
92-019		LER			12/02/1992	0		4205	CALCULATION ERRORS SETPOINT CURVES COLD OVERPRESSURE
92-020		LER			12/08/1992	0		4205	TOXIC GAS MONITOR CHANNEL NON-TRIPPED CONDT. TO TS
	1	VIO		4/3	07/10/1992	0		4304	FAILURE TO PROTECT PROPERLY SAFEGUARDS INFO.
92-021		LER			12/15/1992	0		4205	MAIN STEAM ISO. RESP. TIME TESTING PER TS
	2	IFI			08/03/1992	0	01/06/1993	4205	ALARM RESPONSE PROCEDURES
	3	IFI				0		4205	EDG UNAVAILABILITY FOR UNITS 1 & 2
92-022	1	IFI			08/06/1992	0		4304	CLASSIFYING EMERGENCIES AND NOTIFYING NRC
92-024	1	VIO		4/1	09/10/1992	0		4205	INADEQUATE CORRECTIVE ACTIONS
	3	IFI				0	01/06/1993	4205	ESSENTIAL CHILLER RELIABILITY AND UNAVAILABILITY
	4	URI				0	01/06/1993	4205	TEMPORARY MODIFICATIONS
	5	IFI				0		4205	FAILURE OF PUMP TO START BECAUSE OF BREAKER PROBLEMS
92-026	1	VIO		4/1	10/16/1992	0		4205	FAILURE TO SATISFY REPORTING REQUIREMENTS
	2	VIO		4/1		0	01/06/1993	4205	FAILURE TO HAVE PROCEDURES APPROPRIATE TO THE CIRCUMSTA
	4	VIO		4/1		0		4205	FAILURE TO ADEQUATELY DOCUMENT WORK COMPLETION
92-029	1	VIO		4/1	11/25/1992	0		4205	FAILURE TO FOLLOW AN APPROVED PROCEDURE
	2	VIO		4/1		0		4205	FAILURE TO FOLLOW AN APPROVED PROCEDURE
	4	URI				0		4205	EDG 12 FUEL OIL LINE CHECK VALVE FAILURE
92-030	1	IFI			12/31/1992	0		4611	UNIT 2 ACTION MOV OVERTHRUST
	2	IFI				0		4611	OPERATED THE SAME OVERTHRUST COND. SMB ACTUATORS
92-032	1	URI			01/19/1993	0		4205	FALSIFICATION OF RECORDS
93-001		LER			01/05/1993	0		4205	TS 3.0.3 RCS DELTA-T CHANNELS BEING INOP. SAME TIME
93-002		LER			01/09/1993	0		4205	TS 3.0.3 TWO CHANNELS OF POWER RANGE NUCLEAR INSTRU. IN
	1	URI			02/24/1993	0		4304	ASSESSMENT AIDS

DOCKET 050 0049 SOUTH TEXAS 1

STATUS: OPEN SEVERITY:  
 REPORT FROM: TO  
 REPORT ON: ALL ITEMS

OPNG I/R IFS NBR	SEQ	TYPE	LATEST REPORT	SEV/ SPL	REPORT TRANSMITL	STS	CLOSEOUT PROJ/ACT*	CLSOUT ORG	TITLE
93-003	2	LER URT			01/12/1993 02/18/1993	0 0		4205 4205	TS 3.0.3 SHUTDOWN BOTH UNITS INOPERABLE STEAM LINE FAILURE OF THE EDG TO START
93-004		LER			01/12/1993	0		4205	TS VIO FAILURE SURVEL. REQ. BY ASME SECTION XI CODES
93-005		LER			01/20/1993	0		4205	STANDBY DIESEL GENERATOR 13 FAILURE TO START
93-006		LER			01/21/1993	0		4205	TS VIO DUE TO RCS DELTA T/AVRG T LOOP FOUND OUT OF TOL
TOTAL OPEN ITEMS					85				
TOTAL OPEN SEQUENCES					85				

\*IF ITEM IS OPEN, THE PROJECTED CLOSEOUT DATE IS SHOWN  
 IF ITEM IS CLOSED, THE ACTUAL CLOSEOUT DATE IS SHOWN

DOCKET: 050-00499 SOUTH TEXAS 2

STATUS: OPEN SEVERITY:  
REPORT FROM: TO:  
REPORT ON: ALL ITEMS

OPNG I/R IFS NBR	SEQ	TYPE	LATEST REPORT	SEV/ SPL	REPORT TRANSMIT	STS	CLOSEOUT PROJ/ACT*	CLSOUT ORG	TITLE
89-028	1	IFI			12/31/1989	0		4612	INCORPORATE REVISED DATA SHEETS INTO TEST RESULTS
89-044	1	IFI			01/03/1990	0		4304	SHIELDING AND PROCEDURAL MODIFICATIONS
90-002	4	IFI	00-000		03/08/1990	0	11/25/1991	4614	COMMERCIAL GRADE PROCUREMENTS
90-010	3 6	IFI IFI			06/05/1990	0	01/14/1992 01/14/1992	4304 4304	POOR HABITABILITY CHECK IN TSC SCENARIO PROBLEMS
91-003	1	IFI			03/04/1991	0		4304	EMERGENCY RESPONERS PERSONNEL PERFORMANCE
91-005	1	IFI			07/18/1991	0		4611	FUSE CONTROL PROGRAM
91-006		LER				0		4205	CONTROL ROOM VENTILATION TOXIC GAS ANALYZER
91-007		LER				0		4205	REACTOR TRIP INADVERTENT GENERATOR B
91-010	1	VIO		4/7	05/17/1991	0	01/14/1992	4304	LICENSEE FAILED TO PROVIDE INITIAL SUPR. TRAINING
91-012	1	EEI	92-032	/3,7	04/29/1991	C	01/19/1993	4205	FALSIFICATION OF DOCUMENTS & PERSONNEL INTEGRITY ISSUES
91-014	1	VIO		4/8	06/12/1991	0		4304	FAILURE TO PERFORM STAFF AUGMENTATION
91-016	1 2	IFI IFI	91-034		07/15/1991	0	11/25/1991	4205 4205	CONTROL BOARD DEFICIENCIES OPERATOR OVERTIME ISSUES
91-017	1	EEI		/3	07/31/1991	0		4304	INADEQUATE SECURITY SEARCHES
91-018	1	EEI	92-008	/1	07/26/1991	C	05/22/1992	4205	AMSAC RELIABILITY
91-019	1 2	IFI IFI			07/29/1991	0	01/06/1993	4205 4205	REVIEW OF VALVE LABELING PROGRAM REACTOR VESSEL HEAD VENT SYSTEM ANALYSIS
91-020	5 6	IFI IFI			10/01/1991	0		4304 4304	INCOMPLETE PAS DURING SITE EVACUATION SCENARIO INADEQUACIES
91-021	1	VIO		4/3	11/05/1991	0		4304	INADEQUATE VITAL AREA KEY CONTROL
91-023	1	EEI		3/1	11/30/1991	0		4205	CONTRACTOR INTEGRITY
91-024		LER				0		4205	LER 91-24-2 SRV LOOP SEAL DELAY TIME
91-032	1	IFI			01/27/1992	0		4304	ASSESSMENT AIDS

DOCKET 050-00499 SOUTH TEXAS 2

STATUS: OPEN SEVERITY:  
 REPORT FROM: TO:  
 REPORT ON: ALL ITEMS

OPNG I/R IFN NBR	SEQ	TYPE	LATEST REPORT	SEV/ SPL	REPORT TRANSMITL	STS	CLOSEOUT PROJ/ACT*	CLSOUT ORG	TITLE
	2	IFT				0		4304	TESTING AND MAINTENANCE
	3	VIO		4/3		0		4304	FAILURE TO CONDUCT PROPER SEARCH ENTERING PA
91-014	3	IFT			02/26/1992	0		4205	ECW WATER HAMMER
92-001		LER			01/22/1992	0		4205	REACTOR TRIP DROPPED CONTROL ROD
92-002		LER			01/22/1992	0		4205	LER 92-02-2 SAD DUE TO VERITRAK TRANSM UNCERTAINTIES
92-003		LER	92-032		02/24/1992	0	01/19/1993	4205	MANUAL REACTOR TRIP ON 2-24-92
92-004		LER			04/28/1992	0		4205	ENTRY TO TS 3.0.3 DUE TO CIV FAILING TO CLOSE
92-005		LER			05/08/1992	0		4205	CONTAINMENT VENTILATION ISOLATION ACTUATION
92-006	3	IFT			04/10/1992	0		4611	MOTOR OPERATED VALVES ISSUES
92-007		LER			09/12/1992	0		4205	UNPLANNED ESF ACT. OF ISO. VALVES FOR ABOVE SEAT DRAIN
	1	IFT			06/01/1992	0		4614	BACKLOG ON PLANT PERFORMANCE
	2	VIO		4/3		0		4304	ACCESS CONTROL
	3	VIO		4/3		0		4304	PERSONNEL ACCESS CONTROL
92-008*		SJM	88-070			0		4205	75 (B080) ITEM 4.1 RX TRIP S <sub>13</sub> RELIABILITY-VENDOR MODS
		LEF			09/15/1992	0		4205	CR VENTILATION ACTUATION TO RECR. MODE DUE TO FAILURE
	1	IFT			05/22/1992	0		4205	RCS OVERCOOLING
92-009		LER			12/17/1992	0		4205	MISSED TS REQ. SURV. DUE TO FAULTY TOXIC GAS MONT. SYST
	1	IFT			06/08/1992	0		4304	TSC NOT CONSISTENT WITH OFFSITE AUTHORITIES
	3	IFT				0		4304	EDG LACK OF GUIDANCE
	4	IFT				0		4304	LACK OF PROPERLY COORDINATING EVACUEES
	5	IFT				0		4304	INADEQUACY OF HANDLING AN INJURED PERSON
92-010		LER			12/27/1992	0		4205	RX TRIP DUE TO FWRV CLOSURE
	1	URI			06/04/1992	0		4304	VERIFICATION OF STAFF AUGUMENTATION METHODS
92-014	1	IFT			07/08/1992	0		4205	INADVERTENT EXCESS BORATION
	3	IFT	92-026			0	01/06/1993	4205	EDG AVAILABILITY
92-015	1	VIO		4/1	08/05/1992	0		4613	FAILURE TO SECURE ADDITIONAL FLOW PATH
92-016*		SJM	92--26			0		4611	MOV'S (GL-89-10/TI2515/109)
92-020*		SFI				0		4304	92-S01 UNCOMPENSATED DEGRADED VITAL AREA BARRIER
	1	VIO		4/3	07/10/1992	0		4304	FAILURE TO PROTECT PROPERLY SAFEGUARDS INFO.

DOCKET: 050 00499 SOUTH TEXAS 2

STATUS: OPEN SEVERITY:  
REPORT FROM: TO:  
REPORT ON: ALL ITEMS

OPNG I/R IFS NBR	SEQ	TYPE	LATEST REPORT	SEV/ SPL	REPORT TRANSMITL	STS	CLOSEOUT PROJ/ACT*	CLSOUT ORG	TITLE
92-021	2	IFI			08/03/1992	0	01/06/1993	4205	ALARM RESPONSE PROCEDURES
	3	IFI				0		4205	EDG UNAVAILABILITY FOR UNITS 1 & 2
92-022	1	IFI			08/06/1992	0		4304	CLASSIFYING EMERGENCIES AND NOTIFYING NRC
92-024	1	VIO		4/1	09/10/1992	0		4205	INADEQUATE CORRECTIVE ACTIONS
	3	IFI				0	01/06/1993	4205	ESSENTIAL CHILLER RELIABILITY AND UNAVAILABILITY
	4	URI				0	01/06/1993	4205	TEMPORARY MODIFICATIONS
	5	IFI				0		4205	FAILURE OF PUMP TO START BECAUSE OF BREAKER PROBLEMS
92-026	1	VIO		4/1	10/16/1992	0		4205	FAILURE TO SATISFY REPORTING REQUIREMENTS
	2	VIO		4/1		0	01/06/1993	4205	FAILURE TO HAVE PROCEDURES APPROPRIATE TO THE CIRCUMSTA
	3	VIO		4/1		0		4205	FAILURE TO PERFORM AN ADEQUATE POSTMAINTENANT TEST
92-029	1	VIO		4/1	11/25/1992	0		4205	FAILURE TO FOLLOW AN APPROVED PROCEDURE
	2	VIO		4/1		0		4205	FAILURE TO FOLLOW AN APPROVED PROCEDURE
92-030	1	IFI			12/31/1992	0		4611	UNIT 2 ACTION MOV OVERTHRUST
	2	IFI				0		4611	OPERATED THE SAME OVERTHRUST COND. SMB ACTUATORS
92-032	1	URI			01/19/1993	0		4205	FALSIFICATION OF RECORDS
93-001		LER			01/23/1993	0		4205	REACTOR TRIP DUE TO FAILUR OF A MAIN TURBINE ELE-HYDRAU
93-002		LER			01/29/1993	0		4205	UNPLANNED ESF ACTUA. OF AN ECW SCREEN WASH BOOSTER PUMP
	1	URI			02/24/1993	0		4304	ASSESSMENT AIDS

TOTAL OPEN ITEMS 69  
TOTAL OPEN SEQUENCES 69

\*IF ITEM IS OPEN, THE PROJECTED CLOSEOUT DATE IS SHOWN  
IF ITEM IS CLOSED, THE ACTUAL CLOSEOUT DATE IS SHOWN

UNIT NAME SOUTH TEXAS 1 DOCKET NUMBER: 050-00498 REPORT FROM DATE: 08/02/1992 REPORT TO DATE: 09/11/1993  
SALP CYCLE ID 010 SALP START DATE: 08/02/1992 SALP END DATE: 09/11/1993 PROCEDURE STS ALL ORG CD ALL

SALP FUNCTIONAL AREA: OPS NAME: OPERATIONS

SALP RATING: 2

PROC ID	TITLE/COMMENTS	IPE	PRI	ORG	EMP	STS	TARGET DT	FRQ	PLND HRS	ACTL HRS	IR #	COMPLN DT
64704 -01	FIRE PROTECTION LAST DONE SC 8, IR 90-19	CO		4614	ASI	C	03/08/1993	0	12.50	19.00	93009	03/13/1993
71707 -01	MONTHLY RESIDENT	CO		4205	JJT	C	08/02/1992	M	59.00	67.50	92026	09/12/1992
71707 -02	MONTHLY RESIDENT	CO		4205	JJT	C	09/13/1992	M	59.00	61.20	92029	10/24/1992
71707 -03	MONTHLY RESIDENT	CO		4205	JJT	C	10/25/1992	M	59.00	59.00	92032	
71707 -04	MONTHLY RESIDENT	CO		4205	JJT	M	12/06/1992	M	59.00	189.30	93012	
71707 -05	MONTHLY RESIDENT	CO		4205	JJT	N	01/17/1993	M	59.00	00		
71707 -06	MONTHLY RESIDENT	CO		4205	JJT	N	02/28/1993	M	59.00	00		
71707 -07	MONTHLY RESIDENT	CO		4205	JJT	N	04/11/1993	M	59.00	00		
71707 -08	MONTHLY RESIDENT	CO		4205	JJT	N	05/23/1993	M	59.00	00		
71707 -09	MONTHLY RESIDENT	CO		4205	JJT	N	07/04/1993	M	59.00	00		
71707 -10	MONTHLY RESIDENT	CO		4205	JJT	N	08/15/1993	M	59.00	00		
71707 -11	MONTHLY RESIDENT	CO		4205	JJT	C	07/05/1992	M	00	8.00	92024	08/01/1992
71710 -01	ESF SYSTEM WALKDOWN	CO		4205	JJT	C	12/01/1992	S	10.00	10.00	92032	12/05/1992
71710 -02	ESF SYSTEM WALKDOWN	CO		4205	JJT	N	07/01/1993	S	10.00	00		
93702 -01	ONSITE RSPNSE TO EVNT DO NOT CLOSE TIL END OF SALP CYCLE	CO		4205	JJT	M	09/11/1993	M	30.00	23.00	92026	09/12/1992
42700 -01	PLANT PROCEDURES	RI		4613		N	06/21/1993	*	35.00	00		
60705 -01	PREPARATION FOR REFUELING	RI		4205	JJT	C	09/01/1992	*	12.00	4.00	92036	01/16/1993
60710 -01	REFUELING ACTIVITIES	RI		4205	JJT	C	09/30/1992	*	12.00	28.00	92032	12/05/1992
71500 -01	BALANCE OF PLANT ADDED 92-4 QPPR-PART OF MAINT. IMPL. TEAM INSPECTION 50 HOURS TAKEN FROM 62700-03	RI		4612	DIP	N	09/11/1993	*	50.00	00		
71707 -12	MONTHLY RESIDENT DO NOT CLOSE TIL END OF SALP CYCLE	RI		4205	JJT	M	09/11/1993	M	150.00	79.00	93007	
93702 -02*	ONSITE RSPNSE TO EVNT	RR		4205	RHE	M		M	00	12.00	93003	
93702 -02	ONSITE EVENT FOLLOWUP	RR		4205	DIP	M	06/02/1991	R	00	2.00	92017	
93802 -02	OSTI	RT		4205	M3S	C	11/30/1992	*	250.00	272.70	92035	01/16/1993
2515/117-01	LINCESED OP REQUAL PROG EVALUAT	SI		4613	JPQ	C	01/11/1993	*	96.00	51.00	93001	01/16/1993

TOTAL: 1,257.50 885.70

\* - DENOTES UNPLANNED PROCEDURE

+ - DENOTES GREATER THAN 45 DAYS BEYOND LAST TARGET DATE



SITE NAME: SOL XAS PROJECT

UNIT NAME: SOUTH TEXAS I DOCKET NUMBER: 050-00498 REPORT FROM DATE: 08/02/1992 REPORT TO DATE: 09/11/1993  
SALP CYCLE ID: 010 SALP START DATE: 08/02/1992 SALP END DATE: 09/11/1993 PROCEDURE STS: ALL ORG CD: ALL

SALP FUNCTIONAL AREA: RADCON NAME: RADIOLOGICAL CONTROLS

SALP RATING: 1

PROC ID	TITLE/COMMENTS	IPE	PRI	ORG	EMP	STS	TARGET DT	FRQ	PLND HRS	ACTL HRS	IR #	COMPLTN DT
83750 -01	OCCUPATIONAL EXPOSURE	CO		4304	BOM	M	10/26/1992	C	52.50	24.00	92031	
84750 -01	EFFLUENTS, WATER CHEM& CM	CO		4304	BOM	N	09/11/1993	C	52.50	00		
86750 -01	SOLID RADWASTE& TRANSPORT	CO		4304	BOM	N	09/11/1993	C	14.00	00		
TOTAL:										119.00	24.00	

\* - DENOTES UNPLANNED PROCEDURE

+ - DENOTES GREATER THAN 45 DAYS BEYOND LAST TARGET DATE

UNIT NAME SOUTH TEXAS I DOCKET NUMBER: 050-00498 REPORT FROM DATE: 08/02/1992 REPORT TO DATE: 09/11/1993  
SALP CYCLE ID: 010 SALP START DATE: 08/02/1992 SALP END DATE: 09/11/1993 PROCEDURE STS: ALL ORG CD: ALL

SALP FUNCTIONAL AREA: MS NAME: MAINTENANCE/SURVEILLANCE

SALP RATING: 2

PROC ID	TITLE/COMMENTS	IPE	PRI	ORG	EMP	STS	TARGET DT	FRQ	PLND	HRS	ACTL HRS	IR #	COMPLTN DT
61726	01 SURVEILLANCE OBSERVATION	CO		4205	JJT	C	08/02/1992	B		7.50			
61726	02 SURVEILLANCE OBSERVATION	CO		4205	JJT	C	09/13/1992	B		7.50	7.00	92026	
61726	03 SURVEILLANCE OBSERVATION	CO		4205	JJT	C	10/25/1992	B		7.50	4.00	92029	
61726	04 SURVEILLANCE OBSERVATION	CO		4205	JJT	M	12/06/1992	B		7.50	8.00	92032	
61726	05 SURVEILLANCE OBSERVATION	CO		4205	JJT	N	01/17/1993	B		7.50	3.00	92036	
61726	06 SURVEILLANCE OBSERVATION	CO		4205	JJT	N	02/28/1993	B		7.50	.00		*
61726	07 SURVEILLANCE OBSERVATION	CO		4205	JJT	N	04/11/1993	B		7.50	.00		*
61726	08 SURVEILLANCE OBSERVATION	CO		4205	JJT	N	05/23/1993	B		7.50	.00		
61726	09 SURVEILLANCE OBSERVATION	CO		4205	JJT	N	07/04/1993	B		7.50	.00		
61726	10 SURVEILLANCE OBSERVATION	CO		4205	JJT	N	08/15/1993	B		7.50	.00		
62703	01 MAINTENANCE OBSERVATION	CO		4205	JJT	C	08/02/1992	M		11.25	12.00	92026	09/12/1992
62703	02 MAINTENANCE OBSERVATION	CO		4205	JJT	C	09/13/1992	M		11.25	10.00	92029	
62703	03 MAINTENANCE OBSERVATION	CO		4205	JJT	C	10/25/1992	M		11.25	11.00	92032	
62703	04 MAINTENANCE OBSERVATION	CO		4205	JJT	M	12/06/1992	M		11.25	28.50	93004	
62703	05 MAINTENANCE OBSERVATION	CO		4205	JJT	N	01/17/1993	M		11.25	.00		*
62703	06 MAINTENANCE OBSERVATION	CO		4205	JJT	N	02/28/1993	M		11.25	.00		*
62703	07 MAINTENANCE OBSERVATION	CO		4205	JJT	N	04/11/1993	M		11.25	.00		
62703	08 MAINTENANCE OBSERVATION	CO		4205	JJT	N	05/23/1993	M		11.25	.00		
62703	09 MAINTENANCE OBSERVATION	CO		4205	JJT	N	07/04/1993	M		11.25	.00		
62703	10 MAINTENANCE OBSERVATION	CO		4205	JJT	N	08/15/1993	M		11.25	.00		
73753	01 ISI - OBSERVATIONS	CO		4612	TXS	C	09/28/1992	C		16.00	19.00	92028	10/03/1992
61701	02* COMPLEX SURVEILLANCE	DA		4612	DLK	C		*		.00	9.00	92036	01/09/1993
49001	01 EROSION/CORROSION PRGMS	RI		4612	LKG	C	12/14/1992	*		35.00	34.00	92033	12/19/1992
61700	01 SURVEILLANCE PROCEDURES	RI		4612	DIP	N	09/11/1993	*		30.00	.00		
61701	01 COMPLEX SURVEILLANCE	RI		4205	JJT	C	08/02/1992	*		20.00	7.00	92032	
61725	01 ADDED 92-4 QPPR												
61725	01 ST & CAL CONTROL PROGRAM	RI		4612	DIP	N	09/11/1993	*		18.00	.00		
62700	01 MAINTENANCE PRACTICES	RI		4612	TXS	C	08/31/1992	*		15.00	15.00	92027	09/05/1992
62700	02 ALLEGATION F/U												
62700	02 MAINTENANCE PRACTICES	RI		4612	M3S	M	06/21/1993	*		50.00	42.50	93005	
62700	03 DRP AREA OF INTEREST DUE TO PERFORMANCE												
62700	03 MAINTENANCE PRACTICES	RI		4612	DIP	N	09/11/1993	*		25.00	.00		
62700	04 MAINT IMPL TEAM INSPECTION												
62700	04 CHANGED FM 75 TO 25 HOURS-92-4 QPPR												
62700	04 MAINTENANCE PRACTICES	RI		4205	JJT	M	01/18/1993	*		15.00	12.00	93003	
62703	12 ADDED 92-4 QPPR-SPECIAL INSP FOR I&C AND EDG OPERABILITY												
62703	12 MAINTENANCE OBSERVATION	RI		4205	JJT	M	09/11/1993	M		30.00	21.00	92032	
62703	12 DO NOT LOSE TIL END OF SALP CYCLE												

\* - DENOTES UNPLANNED PROCEDURE

+ - DENOTES GREATER THAN 45 DAYS BEYOND LAST TARGET DATE

SITE NAME SO. EXAS PROJECT

UNIT NAME SOUTH TEXAS I DOCKET NUMBER: 050-00498 REPORT FROM DATE: 08/02/1992 REPORT TO DATE: 09/11/1993  
 SALP CYCLE ID: 010 SALP START DATE: 08/02/1992 SALP END DATE: 09/11/1993 PROCEDURE STS: ALL ORG CD: ALL

SALP FUNCTIONAL AREA: MS NAME: MAINTENANCE/SURVEILLANCE SALP RATING: 2

PROC ID	TITLE/COMMENTS	IPE	PR!	ORG	EMP	STS	TARGET DT	FRQ	PLND HRS	ACTL HRS	IR #	COMPLTN DT
62703 -13	MAINTENANCE OBSERVATION	RI		4612	TXS	N	08/02/1992	M	25.00	.00		*
	MAINT IMPL TEAM INSPECTION											
62704 -01	INSTRUMENT MAINTENANCE	RI		4612	DIP	N	09/11/1993	*	25.00	.00		
	MAINT IMPL TEAM INSPECTION											
62705 -01	ELECTRICAL MAINTENANCE	RI		4612	DIP	N	09/11/1993	*	25.00	.00		
	MAINT IMPL TEAM INSPECTION											
73753 -02	ISI - OBSERVATIONS	RI		4612	TXS	C	09/28/1992	C	16.00	20.00	92028	10/03/1992
	ADDED 09/22/1992 ON RECOMMENDATION OF D:DRS											
62703 -14	MAINTENANCE OBSERVATION	RR		4205	JJT	M	01/18/1993	M	15.00	1.50	93002	*
	ADDED 4 QPPR-SPECIAL INSP I&C AND EDG OPERABILITY											
2515/110-01	PRFMNCE OF S/R CV	SI		4612	LEE	N	08/23/1993	*	54.00	.00		
							TOTAL:		601.50	264.50		

\* - DENOTES UNPLANNED PROCEDURE

\* - DENOTES GREATER THAN 45 DAYS BEYOND LAST TARGET DATE

BY SALP FUNCTIONAL AREA  
SORTED BY FNCTL AREA/IPE CD/PROC

UNIT NAME SOUTH TEXAS PROJECT  
UNIT NAME SOUTH TEXAS 1  
SALP CYCLE ID 010  
DOCKET NUMBER 050-00498  
REPORT FROM DATE 08/02/1992  
REPORT TO DATE 09/11/1993  
SALP START DATE 08/02/1992  
SALP END DATE 09/11/1993  
PROCEDURE SYS ALL

SALP FUNCTIONAL AREA EP  
NAME EMERGENCY PREPAREDNESS  
SALP RATING 2

PROC ID	TITLE/COMMENTS	IPE	PRI	ORG	EMP	STS	TARGET DT	FRQ	PLND HRS	ACTL HRS	IR #	COMPLTN DT
82301	EP EXERCISE	CO		4304	DSE	N	06/07/1993	Y	27.00			00
82302	EP SCENARIO	CO		4304	BOM	N	09/11/1993	Y	6.00			00
82701	EP PROGRAM	CO		4304	BOM	N	09/11/1993	C	17.50			00
82205	STAFFING & AUGMENTATION	RI		4304	BOM	N	08/02/1992	*	8.00			00
82301	EP EXERCISE	RI		4304	DSE	N	06/07/1993	Y	28.00			00
82701	EP PROGRAM	RI		4304	BOM	N	08/02/1992	C	14.00			00
TOTAL:										100.50		

\* - DENOTES UNPLANNED PROCEDURE  
+ - DENOTES GREATER THAN 45 DAYS BEYOND LAST TARGET DATE

SITE NAME: SG EXAS PROJECT

UNIT NAME: SOUTH TEXAS 1 DOCKET NUMBER: 050-00498 REPORT FROM DATE: 08/02/1992 REPORT TO DATE: 09/11/1993  
SALP CYCLE ID: 010 SALP START DATE: 08/02/1992 SALP END DATE: 09/11/1993 PROCEDURE STS: ALL ORG CD: ALL

SALP FUNCTIONAL AREA: SEC NAME: SECURITY

SALP RATING: 2

PROC ID		TITLE/COMMENTS	IPE	PRI	ORG	EMP	STS	TARGET DT	FRQ	PLND HRS	ACTL HRS	IR #	COMPLTN DT
81700	-01	PHYSICAL SECURITY PROGRAM	CO		4304	BOM	M	11/16/1992	C	56.00	3 50	92034	
81018	-02	SECURITY PLAN & PROCEDURES	RI		4304	BOM	M	11/16/1992	*	8.00	1.00	92034	*
81042	-02	INCREASED TO 8 HOURS-93-1 QPPR	RI		4304	BOM	M	11/16/1992	*	5.00	2 50	92034	*
81058	-02	TESTING AND MAINTENANCE	RI		4304	BOM	M	11/16/1992	*	2.00	1 50	92034	*
81064	-01*	SECURITY POWER SUPPLY	RI		4304	TKD	C			.00	1 50	93002	01/30/1993
81064	-02	COMPENSATORY MEASURES	RI		4304	BOM	M	11/16/1992	*	8.00	1 50	92034	*
81066	-01*	INCREASED TO 8 HOURS-92-4 QPPR	RI		4304	TKD	C			.00	2 00	93002	01/30/1993
81066	-02	ASSESSMENT AIDS	RI		4304	BOM	M	11/16/1992	*	8.00	1 50	92034	*
		ASSESSMENT AIDS											
		INCREASED TO 8 HOURS-92-4 QPPR											

TOTAL: 87.00 15.00

\* - DENOTES UNPLANNED PROCEDURE

\* - DENOTES GREATER THAN 45 DAYS BEYOND LAST TARGET DATE

UNIT NAME SOUTH TEXAS I DOCKET NUMBER: 050-00498 REPORT FROM DATE: 08/02/1992 REPORT TO DATE: 09/11/1993  
 SALP CYCLE ID: 010 SALP START DATE: 08/02/1992 SALP END DATE: 09/11/1993 PROCEDURE STS: ALL ORG CD: ALL

SALP FUNCTIONAL AREA: ETS-0 NAME: ENGINEERING/TECHNICAL SUPPORT - OPERATIONAL SALP RATING: 2

PROC ID	TITLE/COMMENTS	IPE	PRI	ORG	EMP	STS	TARGET DT	FRQ	PLND	HRS	ACTL HRS	IR #	COM	DT
41500 -01*	NON-OPERATOR TRAINING	AF		4612	RSU	C				00	23.00	92033	11/21/1992	
37700 -01	DESIGN CHANGES & MODS	CD		4611	TEW	N	05/17/1993	C		30.00	00			
37001 -01	10 CFR 50.59 SAFETY EVALUATION ADDED 52-4 QPPR	RI		4611	RUM	N	05/17/1993	*		35.00	00			
2515/109-01	MOV TESTING - GL 89-10 SECOND ROUND	S1		4611	MUR	M	09/03/1992	*		110.00	87.50	92030		*
TOTAL:											175.00	110.50		

\* DENOTES UNPLANNED PROCEDURE

+ - DENOTES GREATER THAN 45 DAYS BEYOND LAST TARGET DATE

UNIT NAME: SOUTH TEXAS I DOCKET NUMBER: 050-00498 REPORT FROM DATE: 08/02/1992 REPORT TO DATE: 09/11/1993  
 SALP CYCLE ID: 010 SALP START DATE: 08/02/1992 SALP END DATE: 09/11/1993 PROCEDURE STS: ALL ORG CD: ALL

SALP FUNCTIONAL AREA: SAQV-0 NAME: SAFETY ASSESSMENT/QUALITY VERIFICATION - OPERATIONAL SALP RATING: 2

PROC ID	TITLE/COMMENTS	IPE	PRI	ORG	EMP	STS	TARGET DT	FRQ	PLND HRS	ACTL HRS	IR #	COMPLTN DT	
40500 -01	SAFETY ASSESSMENT LAST DONE IR 92-01, 91-16, 89-25	CO		4614	JWF	N	06/28/1993	C	20.00	.00			
40500 -02	SAFETY ASSESSMENT C/A & S/A INSPECTION	RI		4614	PPW	N	06/28/1993	C	37.50	.00			
90712 -01	IN-OFFICE LER REVIEW	RI		4205	M3S	N	09/11/1993	*	20.00	.00			
92700 -01	ONSITE LER REVIEW	RI		4205	JJT	M	09/11/1993	*	75.00	16.50	92032		
92701 -01	OPEN ITEM FOLLOWUP	RI		4000	M3S	C	09/11/1993	*	30.00	47.30	92030	11/21/1992	
92701 -02	OPEN ITEM FOLLOWUP	RI		4611	TEW	M	08/02/1992	*	35.00	27.50	93014	*	
92702 -01	IF1 F/U CORCTVE ACTNS VIOL & DEV	RI		4000	M3S	M	09/11/1993	*	30.00	50	92032		
92720 -01	CORRECTIVE ACTION PROGRAM LAST DONE IR 92-01, 91-13	RI		4614	PPW	N	06/28/1993	*	37.50	.00			
2515/113-01	RELIABLE DHR DURING OUTGS	SI		4205	JIT	C	10/01/1992	*	24.00	6.00	92029	10/24/1992	
TOTAL:										309.00	97.80		

\* - DENOTES UNPLANNED PROCEDURE

+ - DENOTES GREATER THAN 45 DAYS BEYOND LAST TARGET DATE

SITE NAME SOUTH TEXAS PROJECT

MASTER INSPECTION PLAN  
BY SALP FUNCTIONAL AREA  
SORTED BY FNCTL AREA/IPE CD/PROC

03/16/93  
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UNIT NAME SOUTH TEXAS I DOCKET NUMBER 050-00498 REPORT FROM DATE: 08/02/1992 REPORT TO DATE: 09/11/1993  
SALP CYCLE ID 010 SALP START DATE: 08/02/1992 SALP END DATE: 09/11/1993 PROCEDURE STS: ALL ORG CD: ALL

SALP FUNCTIONAL AREA QTHR-0 NAME: OTHER SPECIAL AREA FOR OPERATIONS/STARTUP TESTING SALP RATING :

PROC ID	TITLE/COMMENTS	IPE	PRI	ORG	EMP	STS	TARGET DT	FRQ	PLND HRS	ACTL HRS	IR #	COMPLTN DT
30702 -01	MANAGEMENT MEETINGS ADDED TO INTERIM MIP 09/13/1992	RI		4205	M3S	M	08/02/1992 *		10 00	4 50	92036	*
93800 01*	AIT	RT		4203	IRL	C			00	171 00	93007	02/13/1993
TOTAL:										10 00	175 50	

\* - DENOTES UNPLANNED PROCEDURE

\* - DENOTES GREATER THAN 45 DAYS BEYOND LAST TARGET DATE



SITE NAME: SO. TEXAS PROJECT

UNIT NAME: SOUTH TEXAS 2 DOCKET NUMBER: 050-00499 REPORT FROM DATE: 08/02/1992 REPORT TO DATE: 09/11/1993  
SALP CYCLE ID: 010 SALP START DATE: 08/02/1992 SALP END DATE: 09/11/1993 PROCEDURE STS: ALL ORG CD: ALL

SALP FUNCTIONAL AREA: OPS NAME: OPERATIONS

SALP RATING: 2

PROC ID	TITLE/COMMENTS	IPE	PRI	ORG	EMP	STS	TARGET DT	FRQ	PLND HRS	ACTL HRS	IR #	COMPLTN DT	
61704 -01	FIRE PROTECTION	CD		4614	ASI	C	03/08/1993	0	12.50	18.50	93009	03/13/1993	
	LAST DONE SC 8, IR 90-19												
71707 -01	MONTHLY RESIDENT	CD		4205	JJT	C	08/02/1992	M	59.00	60.00	92026	09/12/1992	
71707 -02	MONTHLY RESIDENT	CD		4205	JJT	C	09/13/1992	M	59.00	61.60	92029	10/24/1992	
71707 -03	MONTHLY RESIDENT	CD		4205	JJT	C	10/25/1992	M	59.00	59.00	92032		
71707 -04	MONTHLY RESIDENT	CD		4205	JJT	M	12/06/1992	M	59.00	194.00	93011		
71707 -05	MONTHLY RESIDENT	CD		4205	JJT	N	01/17/1993	M	59.00	.00			
71707 -06	MONTHLY RESIDENT	CD		4205	JJT	N	02/28/1993	M	59.00	.00			
71707 -07	MONTHLY RESIDENT	CD		4205	JJT	N	04/11/1993	M	59.00	.00			
71707 -08	MONTHLY RESIDENT	CD		4205	JJT	N	05/23/1993	M	59.00	.00			
71707 -09	MONTHLY RESIDENT	CD		4205	JJT	N	07/04/1993	M	59.00	.00			
71707 -10	MONTHLY RESIDENT	CD		4205	JJT	N	08/15/1993	M	59.00	.00			
71707 -11	MONTHLY RESIDENT	CD		4205	JJT	C	07/05/1992	M	.00	8.00	92024	08/01/1992	
71710 -01	ESF SYSTEM WALKDOWN	CD		4205	JJT	C	12/01/1992	S	10.00	8.00	92029	10/17/1992	
71710 -02	ESF SYSTEM WALKDOWN	CD		4205	JJT	N	07/01/1993	S	10.00	.00			
93702 -01	ONSITE RSPNSE TO EVNT	CD		4205	JJT	M	09/11/1993	M	30.00	20.00	93004		
	DO NOT CLOSE TIL END OF SALP CYCLE												
42700 -01	PLANT PROCEDURES	RI		4613		N	06/21/1993	*	35.00	.00			
60705 -01*	PREPARATION FOR REFUELING	RI		4205	RHE	M			.00	2.00	93004		
60705 -02	PREPARATION FOR REFUELING	RI		4612	DIP	N	09/11/1993	*	64.00	.00			
60710 -01	FIRS INSPECTION	RI		4205	JJT	M	09/11/1993	*	22.00	4.00	93011		
60710 -02	REFUELING ACTIVITIES	RI		4612	DIP	N	09/11/1993	*	64.00	.00			
71500 -01	FIRS INSPECTION	RI		4612	I P	N	09/11/1993	*	50.00	.00			
	BALANCE OF PLANT												
	ADDED 92-4 OPPER-PART OF MAINT. IMPL. TEAM INSPECTION												
71707 -12	MONTHLY RESIDENT	RI		4205	JJT	M	09/11/1993	M	150.00	79.00	93005		
86700 -01	DO NOT CLOSE TIL END OF SALP CYCLE												
	SPENT FUEL POOL												
	FIRS INSPECTION												
93702 -02	ONSITE EVENT FOLLOWUP	RR		4205	JJT	M	06/02/1991	R	.00	2.00	92017		
93802 -02	OSTI	RT		4205	M3S	C	11/30/1992	*	250.00	253.30	92035	01/16/1993	
2515/117-01	LINCESED OP REQUAL PROG EVALUAT	SI		4613	JPQ	C	01/11/1993	*	96.00	51.00	93001	01/16/1993	
TOTAL:										1,415.50	820.40		

\* - DENOTES UNPLANNED PROCEDURE

+ - DENOTES GREATER THAN 45 DAYS BEYOND LAST TARGET DATE

UNIT NAME: SOUTH TEXAS 2 DOCKET NUMBER: 050-00499 REPORT FROM DATE: 08/02/1992 EPORT TO DATE: 09/11/1993  
SALP CYCLE ID: 010 SALP START DATE: 08/02/1992 SALP END DATE: 09/11/1993 PROCEDURE STS: ALL ORG CD: ALL

SALP FUNCTIONAL AREA: RADCON NAME: RADIOLOGICAL CONTROLS

SALP RATING: 1

PROJ ID	TITLE/COMMENTS	IPE	PRI	ORG	EMP	STS	TARGET DT	FRQ	PLND HRS	ACTL HRS	IR #	COMPLTN DT
83750 -01	OCCUPATIONAL EXPOSURE	CO		4304	BOM	M	09/11/1993	C	52 50	12 00	92031	
84750 -01	EFFLUENTS, WATER CHEM& CM	CO		4304	BOM	M	09/11/1993	C	52 50	00		
86750 -01	SOLID RADWASTE& TRANSPORT	CO		4304	BOM	M	09/11/1993	C	14 00	00		
83729 -01	OCPTNL EXP CTRL EXT OUTGS ADDED 92 4 QPPR	RI		4304	BOM	N	08/02/1992	*	20 00	00		+
TOTAL:										139 00	12 00	

\* - DENOTES UNPLANNED PROCEDURE

+ - DENOTES GREATER THAN 45 DAYS BEYOND LAST TARGET DATE

UNIT NAME SOUTH TEXAS 2 DOCKET NUMBER: 050-00499 REPORT FROM DATE: 08/02/1992 REPORT TO DATE: 09/11/1993  
 SALP CYCLE ID: 010 SALP START DATE: 08/02/1992 SALP END DATE: 09/11/1993 PROCEDURE STS: ALL ORG CD: ALL

SALP FUNCTIONAL AREA: MS NAME: MAINTENANCE/SURVEILLANCE SALP RATING : 2

PROC ID	TITLE/COMMENTS	IPE	PRI	ORG	EMP	STS	TARGET DT	FRQ	PLND HRS	ACTL HRS	IR #	COMPLTN DT
61726 -01	SURVEILLANCE OBSERVATION	CO		4205	JJT	C	08/02/1992	B	7.50	8.00	92026	
61726 -02	SURVEILLANCE OBSERVATION	CO		4205	JJT	C	09/13/1992	B	7.50	.00		
61726 -03	SURVEILLANCE OBSERVATION	CO		4205	JJT	C	10/25/1992	B	7.50	14.00	92032	
61726 -04	SURVEILLANCE OBSERVATION	CO		4205	JJT	M	12/06/1992	B	7.50	22.00	93011	
61726 -05	SURVEILLANCE OBSERVATION	CO		4205	JJT	N	01/17/1993	B	7.50	.00		+
61726 -06	SURVEILLANCE OBSERVATION	CO		4205	JJT	N	02/28/1993	B	7.50	.00		+
61726 -07	SURVEILLANCE OBSERVATION	CO		4205	JJT	N	04/11/1993	B	7.50	.00		
61726 -08	SURVEILLANCE OBSERVATION	CO		4205	JJT	N	05/23/1993	B	7.50	.00		
61726 -09	SURVEILLANCE OBSERVATION	CO		4205	JJT	N	07/04/1993	B	7.50	.00		
61726 -10	SURVEILLANCE OBSERVATION	CO		4205	JJT	N	08/15/1993	B	7.50	.00		
62703 -01	MAINTENANCE OBSERVATION	CO		4205	JJT	C	08/02/1992	M	11.25	12.00	92026	09/05/1992
62703 -02	MAINTENANCE OBSERVATION	CO		4205	JJT	C	09/13/1992	M	11.25	6.00	92029	
62703 -03	MAINTENANCE OBSERVATION	CO		4205	JJT	C	10/25/1992	M	11.25	18.00	92032	
62703 -04	MAINTENANCE OBSERVATION	CO		4205	JJT	M	12/06/1992	M	11.25	32.50	93011	
62703 -05	MAINTENANCE OBSERVATION	CO		4205	JJT	N	01/17/1993	M	11.25	.00		+
62703 -06	MAINTENANCE OBSERVATION	CO		4205	JJT	N	02/28/1993	M	11.25	.00		+
62703 -07	MAINTENANCE OBSERVATION	CO		4205	JJT	N	04/11/1993	M	11.25	.00		
62703 -08	MAINTENANCE OBSERVATION	CO		4205	JJT	N	05/23/1993	M	11.25	.00		
62703 -09	MAINTENANCE OBSERVATION	CO		4205	JJT	N	07/04/1993	M	11.25	.00		
62703 -10	MAINTENANCE OBSERVATION	CO		4205	JJT	N	08/15/1993	M	11.25	.00		
73753 -01	ISI - OBSERVATIONS	CO		4612	CKJ	C	03/08/1993	C	32.00	36.50	93010	03/13/1993
49001 -01	EROSION/CORROSION PRGMS	RI		4612	LKG	C	12/14/1992	*	35.00	33.50	92033	12/19/1992
61700 -01	SURVEILLANCE PROCEDURES	RI		4612	DIP	N	09/11/1993	*	30.00	.00		
61700 -01	ST & CAL CONTROL PROGRAM	RI		4612	DIP	N	09/11/1993	*	18.00	.00		
62700 -01	MAINTENANCE PRACTICES	RI		4612	TMG	C	08/31/1992	*	20.00	20.00	92027	09/05/1992
62700 -02	ALLEGATION F/U MAINTENANCE PRACTICES	RI		4612	DIP	M	06/21/1993	*	50.00	41.00	93005	
62700 -03	DRP AREA OF INTEREST DUE TO PERFORMANCE MAINTENANCE PRACTICES	RI		4612	DIP	N	09/11/1993	*	25.00	.00		
62700 -04	MAINT. IMPL. TEAM INSPECTION CHANGED FM 75 TO 25 HOURS-92-4 QPPR	RI		4205	JJT	M	01/18/1993	*	15.00	15.00	93003	+
62703 -12	ADDED 92-4 QPPR-SPECIAL INSP ON I&C AND EDG OPERABILITY MAINTENANCE OBSERVATION	RI		4205	JJT	M	09/11/1993	M	30.00	7.00	92026	
62703 -13	DO NOT CLOSE TIL END OF SALP CYCLE MAINTENANCE OBSERVATION	RI		4612	TXS	N	08/02/1992	M	25.00	.00		+
62704 -01	MAINT. IMPL. TEAM INSPECTION INSTRUMENT MAINTENANCE MAINT. IMPL. TEAM INSPECTION	RI		4612	DIP	N	09/11/1993	*	25.00	.00		

\* - DENOTES UNPLANNED PROCEDURE      + - DENOTES GREATER THAN 45 DAYS BEYOND LAST TARGET DATE

UNIT NAME SOUTH TEXAS 2 DOCKET NUMBER 050-00499 REPORT FROM DATE 08/02/1992 REPORT TO DATE 09/11/1993  
 SALP CYCLE ID 010 SALP START DATE 08/02/1992 SALP END DATE 09/11/1993 PROCEDURE STS ALL ORG CD ALL

PROG ID	TITLE/COMMENTS	IPE	PRI	ORG	EMP	STS	TARGET DT	FRQ	PLND HRS	ACTL HRS	IR #	COMPLTN DT
62705 -01	ELECTRICAL MAINTENANCE	RI		4612	DIP	N	09/11/1993	*	25.00	.00		
73753 02	MAINT IMPL TEAM INSPECTION ISI - OBSERVATIONS	RI		4612	TXS	N	08/02/1992	C	16.00	.00		*
62703 -14	MAINTENANCE OBSERVATION ADDED 92-4 OPRR-SPECIAL INSP I&C AND EDG OPERABILITY	RR		4205	JJT	M	01/18/1993	M	15.00	1.50	93002	*
2515/110-01	PRFMNCE OF S/R CV	SI		4612	LEE	N	08/23/1993	*	54.00	.00		
TOTAL:										602.50		267.00

\* - DENOTES UNPLANNED PROCEDURE

\* - DENOTES GREATER THAN 45 DAYS BEYOND LAST TARGET DATE

SITE NAME: SOL XAS PROJECT

UNIT NAME: SOUTH TEXAS 2  
SALP CYCLE ID: 010

DOCKET NUMBER: 050-00499

REPORT FROM DATE: 08/02/1992

REPORT TO DATE: 09/11/1993

SALP START DATE: 08/02/1992

SALP END DATE: 09/11/1993

PROCEDURE STS: ALL

ORG CD: ALL

SALP FUNCTIONAL AREA: EP

NAME: EMERGENCY PREPAREDNESS

SALP RATING :

PROC ID	TITLE/COMMENTS	IPE	PRI	ORG	EMP	STS	TARGET DT	FRQ	PLND HRS	ACTL HRS	IR #	COMPLTM DT
82301 -01	EP EXERCISE	CO		4304	DSE	N	06/07/1993	Y	27.00	.00		
82302 -01	EP SCENARIO	CO		4304	BOM	N	09/11/1993	Y	6.00	.00		
82701 -01	EP PROGRAM	CO		4304	BOM	N	09/11/1993	C	17.50	.00		
82205 -01	STAFFING & AUGMENTATION	RI		4304	BOM	N	08/02/1992	*	8.00	.00		+
82301 -02	EP EXERCISE	RI		4304	DSE	N	06/07/1993	Y	28.00	.00		
82701 -02	EP PROGRAM	RI		4304	BOM	N	08/02/1992	C	14.00	.00		+
TOTAL:									100.50	.00		

\* - DENOTES UNPLANNED PROCEDURE

+ - DENOTES GREATER THAN 45 DAYS BEYOND LAST TARGET DATE

SITE NAME SOUTH TEXAS PROJECT

UNIT NAME SOUTH TEXAS 2 DOCKET NUMBER: 050-00499 REPORT FROM DATE: 08/02/1992 REPORT TO DATE: 09/11/1993  
 SALP CYCLE ID: 010 SALP START DATE: 08/02/1992 SALP END DATE: 09/11/1993 PROCEDURE STS: ALL ORG CD: ALL

SALP FUNCTIONAL AREA SEC NAME: SECURITY

SALP RATING: 2

PROC ID	TITLE/COMMENTS	IPE	PRI	ORG	EMP	STS	TARGET DT	FRQ	PLND HRS	ACTL HRS	IR #	COMPLTN DT
81700 -01	PHYSICAL SECURITY PROGRAM	CO		4304	BOM	M	11/16/1992	C	56.00	3.00	92034	
81018 -02	SECURITY PLAN & PROCEDURES	RI		4304	BOM	M	11/16/1992	*	6.00	1.00	92034	+
81042 -02	CHANGE FROM 2 TO 6 HOURS-92-4 QPPR											
81058 -02	TESTING AND MAINTENANCE	RI		4304	BOM	M	11/16/1992	*	5.00	2.50	92034	+
81064 -01*	SECURITY POWER SUPPLY	RI		4304	BOM	M	11/16/1992	*	2.00	1.50	92034	+
81064 -02	COMPENSATORY MEASURES	RI		4304	TKD	C			.00	1.50	93002	01/30/1993
81064 -02	CHANGE FROM 2 TO 6 HOURS-92-4 QPPR								6.00	1.50	92034	+
81066 -01*	ASSESSMENT AIDS	RI		4304	TKD	C			.00	2.00	93002	01/30/1993
81066 -02	ASSESSMENT AIDS	RI		4304	BOM	M	11/16/1992	*	6.00	1.50	92034	+
	CHANGE FROM 2 TO 6 HOURS-92-4 QPPR											

TOTAL: 81.00 14.50

\* - DENOTES UNPLANNED PROCEDURE

+ - DENOTES GREATER THAN 45 DAYS BEYOND LAST TARGET DATE

SITE NAME: SO EXAS PROJECT

UNIT NAME: SOUTH TEXAS 2  
SALP CYCLE ID: 010DOCKET NUMBER: 050-00499  
SALP START DATE: 08/02/1992  
SALP END DATE: 09/11/1993REPORT FROM DATE: 08/02/1992  
PROCEDURE STS: ALLREPORT TO DATE: 09/11/1993  
ORG CD: ALLSALP FUNCTIONAL AREA: ETS-0  
NAME: ENGINEERING/TECHNICAL SUPPORT - OPERATIONAL

SALP RATING: 2

PROC ID	TITLE/COMMENTS	IPE	PRI	ORG	EMP	STS	TARGET DT	FRQ	PLND HRS	ACTL HRS	IR #	COMPLTN DT
37700 -01	DESIGN CHANGES & MODS	CO		4611	TEW	N	09/11/1993	C	30.00	.00		
37001 -01	10 CFR 50.59 SAFETY EVALUATION ADDED 92-4 QPPR	RI		4611	TEW	N	08/02/1992	*	35.00	.00		+
2515/109-01	MOV TESTING - GL 89-10 SECOND ROUND	SI		4611	TEW	M	09/11/1993	*	110.00	75.00	92030	
TOTAL:										175.00		75.00

\* - DENOTES UNPLANNED PROCEDURE

+ - DENOTES GREATER THAN 45 DAYS BEYOND LAST TARGET DATE

UNIT NAME: SOUTH TEXAS 2 DOCKET NUMBER: 050-00499 REPORT FROM DATE: 08/02/1992 REPORT TO DATE: 09/11/1993  
 SALP CYCLE ID: 010 SALP START DATE: 08/02/1992 SALP END DATE: 09/11/1993 PROCEDURE STS: ALL ORG CD: ALL

PROC ID	TITLE/COMMENTS	IPE	PRI	ORG	EMP	STS	TARGET DT	FRQ	PLND HRS	ACTL HRS	IR #	COMPLTN DT
40500 -01	SAFETY ASSESSMENT LAST DONE IR 92-01, 91-16, 89-25	CO		4614	JWF	N	06/28/1993	C	20.00	.00		
40500 -02	SAFETY ASSESSMENT C/A & S/A INSPECTION	RI		4614	PPW	N	06/28/1993	C	37.50	.00		*
90712 -01	IN-OFFICE LER REVIEW	RI		4205	M3S	N	09/11/1993	*	20.00	.00		
92700 -01	ONSITE LER REVIEW	RI		4205	M3S	M	09/11/1993	*	75.00	20.50	93004	
92701 -01	OPEN ITEM FOLLOWUP	RI		4000	M3S	C	09/11/1993	*	30.00	28.90	92030	11/21/1992
92701 -02	OPEN ITEM FOLLOWUP	RI		4611	TEW	M	08/02/1992	*	35.00	16.00	93008	*
92702 -01	CORCTVE ACTNS VIOL & DEV	RI		4000	M3S	M	09/11/1993	*	30.00	4.50	92032	
92720 -01	CORRECTIVE ACTION PROGRAM LAST DONE IR 92-01, 91-13	RI		4614	PPW	N	06/28/1993	*	37.50	.00		
2515/113-01	RELIABLE DHR DURING OUTGS	SI		4205	JJT	C	08/02/1992		24.00	6.00	92029	10/24/1992
TOTAL:									309.00	75.30		

\* - DENOTES UNPLANNED PROCEDURE

+ - DENOTES GREATER THAN 45 DAYS BEYOND LAST TARGET DATE



SITE NAME: SOL4 XAS PROJECT

UNIT NAME: SOUTH TEXAS 2 DOCKET NUMBER: 050-00499 REPORT FROM DATE: 08/02/1992 REPORT TO DATE: 09/11/1993  
SALP CYCLE ID: 010 SALP START DATE: 08/02/1992 SALP END DATE: 09/11/1993 PROCEDURE STS: ALL ORG CD: ALL

SALP FUNCTIONAL AREA: OTHR-0 NAME: OTHER SPECIAL AREA FOR OPERATIONS/STARTUP TESTING

SALP RATING :

PROC ID	TITLE/COMMENTS	IPE	PRI	ORG	EMP	STS	TARGET DT	FRQ	PLND HRS	ACTL HRS	IR #	COMPLTN DT
30702 -01	MANAGEMENT MEETINGS ADDED TO INTERIM MIP 09/13/92	RI		4205	M3S	M	08/02/1992 *		10.00	4.50	92036	+
93800 -01*	AIT	RT		4203	IRL	C			.00	137.00	93007	02/13/1993
TOTAL:										10.00	141.50	

\* - DENOTES UNPLANNED PROCEDURE

+ - DENOTES GREATER THAN 45 DAYS BEYOND LAST TARGET DATE

**EXECUTIVE SUMMARY**  
**SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION**  
**SALP CYCLE 010**  
**(AUGUST 2, 1992, THRU SEPTEMBER 11, 1993)**

**I. OVERVIEW**

Both units have remained shutdown since February 3, 1993, as a result of turbine driven auxiliary feedwater pump operability concerns and other issues. Unit 2 entered its third refueling outage on February 27, 1993. Declining performance trends have been observed in the areas of plant operations, radiological controls, maintenance/surveillance, engineering/technical support, and safety assessment/quality verification. Numerous examples of little or inadequate corrective actions taken for known Technical Specification governed equipment problems, poor maintenance practices, and ineffective post-maintenance testing and corrective maintenance have been identified during the Operational Safety Team Inspection (OSTI), several special inspections initiated to resolve issues, and the Augmented Inspection Team (AIT) inspection.

**II. PERFORMANCE INDICATORS**

Quarter      92-04

Analysis: Review of the performance indicators did not reveal that any MIP changes were required.

**III. SUMMARY OF SIGNIFICANT REGULATORY ISSUES**

A summary of significant regulatory issues include the following:

- A DET will be performing an inspection during March and April 1993. As a result of this initiative, a number of regional initiative inspections have been cancelled during this QPPR.
- Two enforcement conferences were conducted on March 8, 1993, concerning the TS 3.0.3 issue on May 17, 1992, and eight examples of a failure of the licensee's self-verification program. The resolution of both of these issues is pending the concurrence of the Office of Enforcement.
- An enforcement conference is scheduled for March 25, 1993, to address the operability of a number of motor-operated valves (MOVs) in the residual heat removal system and the low head safety-injection system, and the repeated failure of the licensee's corrective action program to identify and correct problems.
- A special inspection was completed on March 17, 1993, concerning the operability of the solid state protection system (SSPS). Although in draft, a number of violations were identified, with one being considered for escalated enforcement.
- A special inspection was completed on March 12, 1993, concerning the regulatory issues identified during the AIT. Although in draft, ten apparent violations were identified, with two being considered for escalated enforcement.
- A special inspection was completed on March 19, 1993, concerning the steam generator manway leakage. A number of apparent violations were identified. The report is presently in draft.

- During the quarter, there were nine severity level IV violations cited in both units: one each in OPs, RC and SA/QV, five in M/S, and three in E/TS.
- The routine resident inspection, which is in draft, has identified two additional severity level IV violations in OPs and M/S.
- STP was discussed at the January 1993, Senior Managers' Meeting.

#### IV. PLANT OPERATIONS

##### PREVIOUS RATINGS

SALP 91: 2      92: 2      QPPR 01-93: (NC)

**STRENGTHS:** The OSTI findings indicate that operators are generally motivated and perform their duties in a professional manner. Operators' performance during the operator license examinations was good.

**WEAKNESSES:** Both Unit 2 senior reactor operator watchstanders were absent from the control room for a period of approximately 45 seconds. An EDG was unintentionally tripped during a maintenance run because of inadequate venting of the lubricating oil piping. There appeared to be a lack of operations commitment to training needs identification. A personnel error due to inadequate self-verification by a non-licensed operator was responsible for inadvertently de-energizing the Proteus Computer. Operators throttled the wrong train's ECW valve while conducting a test that resulted in a low flow on the operating ECW train.

**PERFORMANCE ASSESSMENT WITH RECOMMENDATIONS:** Performance in this functional area was mixed. (NC) Trend.

**RECOMMENDED MIP REVISIONS:**

- Cancel 42700 RI (35 Hours per Unit) - DET
- Cancel 71500 RI (50 Hours per Unit) - DET
- Cancel 60705 RI (FIRS-64 Hours, Unit 2) - DET
- Cancel 60710 RI (FIRS-64 Hours, Unit 2) - DET
- Cancel 86700 RI (FIRS-32 Hours, Unit 2) - DET

#### V. RADIOLOGICAL CONTROLS

##### PREVIOUS RATINGS

SALP 91: 1      92: 1      QPPR 01-93: (-)

**STRENGTHS:** None noted during this QPPR period.

**WEAKNESSES:** An individual left and reentered the radiologically restricted area on several occasions, without frisking, while transferring storage drums. An individual violated a radiological posting by entering the control room while a radiation detector surveillance was in progress. Numerous problems with the plant's toxic gas monitors were experienced because of equipment malfunctions. Two examples of the failure to adhere to TS requirements were identified. A licensee HP was observed entering the radiological control area without the required dosimetry.

**PERFORMANCE ASSESSMENT WITH RECOMMENDATIONS:** Licensee performance has degraded during the assessment period. (-) Trend.

**RECOMMENDED MIP REVISIONS:** None

**VI. MAINTENANCE AND SURVEILLANCE**

**PREVIOUS RATINGS**

SALP 91: 2            92: 2D            QPPR 01-93: (-)

**STRENGTHS:** Three surveillance tests were witnessed and good self-verification and supervisory oversight were observed based on a review of three resident inspector reports. Two complex surveillances were effectively performed. In general, the OSTI found that work activities were conducted in accordance with procedure requirements.

**WEAKNESSES:** The Unit 1 fourth refueling outage was completed several weeks behind schedule because of refueling equipment problems, unanticipated emergency diesel generator rework. Personnel errors occurred which resulted in eight examples of work being performed on the wrong component, train, and unit. Numerous examples of repetitive corrective maintenance included a repetitive corrective maintenance activity on the Unit 2 turbine-driven auxiliary feedwater pump. Implementation of the boric acid prevention program was poor, resulting in the failure of identified RCS leakage being appropriately dispositioned. The OSTI identified poor implementation of the licensee's lubrication control program. The licensee's MOVATs testing group incorrectly installed a jumper in a safety-related MOV which resulted in actuator motor failure.

A significant number of escalated enforcement issues are pending, involving inadequate corrective maintenance conducted on MOVs, EDGs, and TDAFWPs in both units

**PERFORMANCE ASSESSMENT WITH RECOMMENDATIONS:** The licensee continues to experience problems in this functional area. Numerous maintenance related personnel errors caused by a lack of self-verification and degraded/failed equipment caused by a lack of preventive and corrective maintenance are indicative of a declining trend in this area. (-) Trend.

**RECOMMENDED MIP REVISIONS:**

- Cancel 61700 RI (30 Hours per Unit) - DET
- Cancel 61725 RI (18 Hours per Unit) - DET
- Cancel 62700-03 RI (25 Hours per Unit) - DET
- Cancel 62703 RI (25 Hours per Unit) - DET
- Cancel 62704 RI (25 Hours per Unit) - DET
- Cancel 62705 RI (25 Hours per Unit) - DET
- Add 62700-05 RI (50 Hours per Unit) - Special  
Inspection for EDG/AFW Operability

## VII. EMERGENCY PREPAREDNESS

### PREVIOUS RATINGS

SALP 91: 2            92: 2            QPPR 01-93: (NC)

No inspections have been completed in this functional area for this QPPR period.

PERFORMANCE ASSESSMENT WITH RECOMMENDATIONS: (NC) Trend.

RECOMMENDED MIP REVISIONS:

## VIII. SECURITY

### PREVIOUS RATINGS

SALP 91: 1            92: 2            QPPR 01-93: (NC)

**STRENGTHS:** Some improvement was noted in the picture quality of assessment aids. Effective action had been taken to identify prepositioned compensatory post locations. The OSRE determined that STP was a good performer in this functional area.

**WEAKNESSES:** The OSTI noted that security personnel were not always responsive to operators.

PERFORMANCE ASSESSMENT WITH RECOMMENDATIONS: (NC) Trend.

RECOMMENDED MIP REVISIONS:

## IX. ENGINEERING AND TECHNICAL SUPPORT

### PREVIOUS RATINGS

SALP 91: 2I            92: 2            QPPR 01-93: (NC)

**STRENGTHS:** Evaluators' performance during the operator license examinations was good. The training department appeared effective in implementing the licensed operator requalification training program; however, the training department did not have an approved biennial licensed operator training plan..

**WEAKNESSES:** Engineering support was poor in the resolution of an electrical load sequence problem with an essential chiller and toxic gas monitors. Both units were required to shut down because of the discovery of incorrectly calibrated components (steam line rate and negative rate pressure time constants) caused by deficient surveillance procedures. A Criterion V violation was cited because the licensee's Technical Advisory Council failed to review and approve the current biennial training plan. Poor engineering

evaluations of steam generator manway stud elongation has resulted in the licensee apparently over-tensioning steam generator manway studs. Engineering support in resolving MOV issues with respect to thermal binding, hydraulic lock of springpacks, valve disk wedging, and excess thrust and torque conditions was considered weak.

**PERFORMANCE ASSESSMENT WITH RECOMMENDATIONS:** Performance was mixed. (NC) Trend.

**RECOMMENDED MIP REVISIONS:** Cancel 37001 RI (Hours per Unit) - DET

**X. SAFETY ASSESSMENT AND QUALITY VERIFICATION**

**PREVIOUS RATINGS**

SALP 90: 1D      91: 2      QPPR 01-93: (-)

**STRENGTHS:** None noted during this QPPR period.

**WEAKNESSES:** Four Unit 1 residual heat removal pump trips, occurring in an 11-day period, were caused, in part, by procedure weaknesses and operator inattention. A station problem report (SPR) was not initiated until the fourth occurrence. The OSTI identified five examples where safety-related equipment or program implementation deficiencies were not properly identified or inadequate corrective actions were taken. The inadequacy of corrective actions for a number of MOVs was the subject of a special inspection that has resulted in escalated enforcement. Inadequate corrective action was determined to be a contributing cause to the Unit 1's TDAFWP being in an inoperability condition for approximately six weeks. One apparent violation was identified that involved eight examples of a failure to follow procedural requirements for performing self-verification; a second apparent violation was identified concerning the failure to initiate an SPR concerning the May 17, 1992, TS 3.0.3 issue. These actions were the subject of an enforcement conference. Poor follow up of identified problems concerning the over-tensioning of steam generator manway studs was identified in a special inspection completed March 19, 1993.

**PERFORMANCE ASSESSMENT WITH RECOMMENDATIONS:** The licensee's performance appears to have declined. (-) Trend.

**RECOMMENDED MIP REVISIONS:** Cancel 40500 RI (37.5 Hours per Unit) - DET  
Cancel 92720 RI (37.5 Hours per Unit) - DET  
Change 92701-01 RI (Add 30 Hours per Unit) -  
Additional Hours Required to Follow Up on the  
Large Number of Issues at STP

XI. OFFICE OF NUCLEAR REACTOR REGULATION (NRR) ACTIVITIES

The NRR input related to STP for the January 1993 QPPR consists of observations in the functional areas of E/TS and SA/QV:

E/TS

The licensee's review of the design for the toxic gas monitor modification was less than adequate in that it did not identify that a tripped channel could become "untripped" without operator action.

SA/QV

The general quality of submittals has been good, although on some occasions additional information was required and provided by the licensee. There was one instance where a request for additional information was untimely and delayed the completion of an amendment.

ENCLOSURES:

MIPS 2 REPORT - INSPECTION PROGRAM STATUS

IFS 1 REPORT - OPEN ITEM LIST BY ORGANIZATIONAL CODE

SUMMARY OF MIP CHANGES

UNIT 1

MODULE	TITLE	AREA	ADD/ CHANGE	FM	TO	DELTA
42700	PLANT PROCEDURES	OPS	C	35	0	-35
71500	BOP	OPS	C	50	0	-50
61700	SURV PROCEDURES	MS	C	30	0	-30
61725	ST AND CAL CONTROL PROGRAM	MS	C	18	0	-18
62700-03	MAINT PRACTICES	MS	C	25	0	-25
62703-13	MAINT OBSERVATION	MS	C	25	0	-25
62704	INSTRUMENT MAINTENANCE	MS	C	25	0	-25
62705	ELECTRICAL MAINTENANCE	MS	C	25	0	-25
62700-05	MAINT PRACTICES	MS	A	0	+50	+50
37001	50.59 SAFETY EVALUATIONS	ETS	C	35	0	-35
40500-02	SAFETY ASSESSMENT	SA/QV	C	37.5	0	-37.5
92720	CORRECTIVE ACTION PROGRAM	SA/QV	C	37.5	0	-37.5
92701-01	OPEN ITEM FOLLOWUP	SA/QV	C	30	60	+30
TOTAL CHANGE						-263



## UNIT 2

MODULE	TITLE	AREA	ADD/ CHANGE	FM	TO	DELTA
42700	PLANT PROCEDURES	OPS	C	35	0	-35
71500	BOP	OPS	C	50	0	-50
60705	PREPARATION FOR REFUELING - FIRS	OPS	C	64	0	-64
60710	REFUELING ACTIVITIES - FIRS	OPS	C	64	0	-64
86700	SPENT FUEL POOL - FIRS	OPS	C	32	0	-32
61700	SURV PROCEDURES	MS	C	30	0	-30
61725	ST AND CAL CONTROL PROGRAM	MS	C	18	0	-18
62700-03	MAINT PRACTICES	MS	C	25	0	-25
62703-13	MAINT OBSERVATION	MS	C	25	0	-25
62704	INSTRUMENT MAINTENANCE	MS	C	25	0	-25
62705	ELECTRICAL MAINTENANCE	MS	C	25	0	-25
62700-05	MAINT PRACTICES	MS	A	0	+50	+50
37001	50.59 SAFETY EVALUATIONS	ETS	C	35	0	-35
40500-02	SAFETY ASSESSMENT	SA/QV	C	37.5	0	-37.5
92720	CORRECTIVE ACTION PROGRAM	SA/QV	C	37.5	0	-37.5
92701-01	OPEN ITEM FOLLOWUP	SA/QV	C	30	60	+30
TOTAL CHANGE						-423

# SOUTH TEXAS PROJECT

## EXECUTIVE SUMMARY SEMIANNUAL PLANT PERFORMANCE REVIEW 93-04 OCTOBER 20, 1993

SALP CYCLE 010  
(AUGUST 2, 1992 THRU JULY 2, 1994)

### I. OVERVIEW

Both units have remained shutdown the entire quarter, as a result of turbine-driven auxiliary feedwater pump operability concerns and other issues. Poor performance trends have continued in the areas of plant operations, maintenance, and plant support. Operator performance inadequacies have been identified in routine and special inspections; the licensee's corrective action program has not exhibited effectiveness; and the maintenance and engineering backlogs remain challenges to the licensee.

### II. PERFORMANCE INDICATORS

Quarter 93-01

Analysis: The number of automatic scrams recorded by Unit 2 trended higher than the peer group, with significant events, safety system failures, and forced outage rate trending higher than the peer group for both units. These indicators are due the forced outage and the events in February that resulted in both units being required to shutdown.

### III. SUMMARY OF SIGNIFICANT REGULATORY ISSUES

Violations identified in plant operations demonstrate continued weaknesses in operator performance. A total of five severity Level IV violations identified in plant support indicates problems in emergency preparedness, corrective action, and surveillance support.

### IV. PLANT OPERATIONS

#### PREVIOUS RATINGS

SALP 91: 2            92: 2

QPPR 93-01: (NC)    QPPR 93-02: (NC)    QPPR 93-03: (-)    SPPR 93-04: (-)

**STRENGTHS:** Staffing enhancements have been made. 20 new reactor plant operators (RPOs) have been hired and are presently in training; these new RPOs are intended to relieve shortages that have contributed to excessive overtime, operator errors due to overwork, and tight shift scheduling due to limited numbers of non-licensed operators. Shift realignment should add additional

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licensed reactor operators to each operating crew and are viewed as a positive enhancement to plant operations. Both units have unitized operations management which should enhance management oversight and communications of expectations.

**WEAKNESSES:** Weaknesses in operator performance has been noted in numerous instances. Spent fuel pool cooling was lost for 13-hours, with a shift turnover taking place during the time cooling was lost. The licensee's operations work control group has been implemented, but is not considered fully effective; operators still appear to be distracted and losing focus on the operation of the plant by non-operations duties. Operator decorum and professionalism in the control room was considered below average during recent operator licensing examinations. Recurrent equipment clearance order implementation problems resulted in a 3-hour site standdown during this quarter. Marginal operator knowledge exhibited by 3 failures of 15 candidates on the latest operator licensing examination.

**PERFORMANCE ASSESSMENT WITH RECOMMENDATIONS:** Restart activities will further assess the licensee's efforts in this area.

## V. MAINTENANCE

### PREVIOUS RATINGS

SALP 91: 2            92: 2D

QPPR 93-01: (-)    QPPR 93-02: (-)    QPPR 93-03: (-)    SPPR 93-04: (-)

**STRENGTHS:** Due to extensive outages on both units, backlog numbers have been reduced. Unitization efforts should improve supervisory and management oversight of work activities.

**WEAKNESSES:** Weaknesses continue in work prioritization, maintenance planning, and control of backlog (which remains relatively high). The operations work control group was recently activated; its effect on maintenance activities remains to be determined with effective work coordination still remaining a challenge. Main feedwater isolation bypass valve operability remains unresolved pending further inspection. Standby diesel generator (SDG) 23 configuration control problems associated with the reverse power relays remain to be resolved by the licensee, in addition to undocumented modifications installed on all machines. At present, the licensee has committed to a retest program on the SDGs prior to restart in order to demonstrate reliability; however, the scope and depth of this program remains unknown. Turbine-driven auxiliary feedwater pump testing is incomplete, pending entry into Mode 3 to establish conditions for retest.

**PERFORMANCE ASSESSMENT WITH RECOMMENDATIONS:** Restart activities will further assess the licensee's efforts in this area.

## VI. ENGINEERING

## PREVIOUS RATINGS

SALP 91: 2I                      92: 2

QPPR 93-01: (NC)    QPPR 93-02: (NC)    QPPR 93-03: (-)    SPPR 93-04: (NC)

**STRENGTHS:** New management, although presently untested at STPEGS, is viewed as a positive. An ambitious system engineer training program should improve overall system engineer quality. The licensee has made significant effort upgrade the fire protection system.

**WEAKNESSES:** An engineering analysis on the ability of the chillers to perform their function during design based accident at low load is pending and requires NRC review prior to restart. Several significant reliability issues concerning the SDGs also require resolution prior to restart. System engineers are still overburdened with responsibilities and their knowledge remains weak. A number of fire protection issues remain pending involving the reliability of the fire protection system.

**PERFORMANCE ASSESSMENT WITH RECOMMENDATIONS:** Restart activities will further assess the licensee's efforts in this area.

## VII. PLANT SUPPORT

### PREVIOUS RATINGS

SALP 94:                      SPPR 93-04: (-)

**STRENGTHS:** The licensee has exhibited overall strong performance in radiation protection and has taken steps to improve the morale problems in the security department by adding additional officers to improve staffing levels.

**WEAKNESSES:** The licensee has had weak performance during emergency preparedness exercises and drills. Overall, the performance of the security department has been weak: low moral exists within the security force with excessive overtime contributing to the morale problems and poor security equipment maintenance has resulted in excessive numbers of compensatory posting that exacerbates overtime issues.

**PERFORMANCE ASSESSMENT WITH RECOMMENDATIONS:** The weakness identified in emergency preparedness and security tend to shadow the relatively good performance in radiation protection. Restart activities will further assess the licensee's efforts in this area.

## VIII. TIA STATUS

93TIA005      Thermolag usage for RG 1.75 purposes has been recently submitted, no status.

No Number Reportability of pressurizer safety valve setpoint drift has been submitted and is pending.

IX. MAJOR SITE ACTIVITIES

COMPLETED

MOVATS Inspection  
OSTI  
Check Valve TI 2515/110  
STIR

PLANNED

SPEAKOUT Inspection  
Several Regional based inspections during the Restart Inspection activities

# SOUTH TEXAS PROJECT

SEMIANNUAL PLANT PERFORMANCE REVIEW 93-04  
OCTOBER 20, 1993

## SUMMARY OF MIP CHANGES - UNIT 1

MODULE	TITLE	AREA	ADD/ CHANGE	FM	TO	DELTA
64704-RI	FIRE PROTECTION/PREVENTION PROGRAM	OPS	A	0	60	+60
82205-RI	STAFFING & AUGMENTATION	EP	A	0	16	+16
92701-RI	OPEN ITEM FOLLOWUP	SA/QV	A	0	125	+125
NET CHANGE						+201

### JUSTIFICATIONS

64704 Restart Issue Inspection  
82205 Additional Hours to Support Inspection of Restart Issue  
92701 DRS Inspection of the Licensee's SPEAKOUT Program

GENERAL NOTE: More Modules will be required to be added as the scope of Restart Issue Inspections are determined

# SOUTH TEXAS PROJECT

SEMIANNUAL PLANT PERFORMANCE REVIEW 93-04  
OCTOBER 20, 1993

## SUMMARY OF MIP CHANGES - UNIT 2

MODULE	TITLE	AREA	ADD/ CHANGE	FM	TO	DELTA
64704-k1	FIRE PROTECTION/PREVENTION PROGRAM	OPS	A	0	20	+60
71707-RI	OPERATIONAL SAFETY VERIFICATION	OPS	C	150	200	+50
82205-RI	STAFFING & AUGMENTATION	EP	A	0	16	+16
92701-RI	OPEN ITEM FOLLOWUP	SA/QV	A	0	125	+125
<b>NET CHANGE</b>						<b>+251</b>

### JUSTIFICATION

64704      Restart Issue Inspection  
71707      Additional Hours for Resident Inspector Regional Initiative  
82205      Additional Hours to Support Inspection of Restart Issue  
92701      DRS Inspection of the Licensee's SPEAKOUT Program

GENERAL NOTE: More Modules will be required to be added as the scope of Restart Issue Inspections are determined

Revised 11/93

~~PRE-DECISIONAL~~

## SOUTH TEXAS

### I. HISTORY

South Texas (STP) was first discussed at the January 1993 Senior Management Meeting (SMM). The licensee had exhibited poor and declining performance for two systematic assessment of licensee performance (SALP) periods. In addition, repetitive hardware problems had resulted in numerous plant trips, transients, engineering safety features (ESF) actuations, and forced outages. As discussed in the Narrative Summary for the January 1993 SMM, the identified performance problems were grouped into three broad areas, including material condition and housekeeping, human performance, and organizational performance.

### II. CHANGES SINCE LAST SMM

Performance at STP has continued to decline since the last SMM. The actions taken by the licensee to improve the implementation of the corrective action program, in addition to other licensee programs, have not been effective. The licensee's attempts at establishing several interdepartmental task forces to address longstanding weaknesses in material deficiencies and personnel performance have not been fully successful. Equipment concerns continue, in particular the reliability of the emergency diesel generators (EDGs), turbine-driven auxiliary feedwater pumps (TDAFWPs), safety-related motor-operated valves (MOVs), and the solid-state protection system (SSPS). Three reactor trips occurred in Unit 2 since the last SMM, resulting from balance-of-plant equipment deficiencies.

STP has made several management changes since the last SMM. The Maintenance Manager resigned and was replaced by the former Deputy Plant Manager, whose position was filled by the former Planning and Assessment Manager. The new Maintenance Manager is not judged to be a strong administrator; and considering the licensee's inability to reduce the large maintenance backlog and the poor reliability of a number of safety-related components, his management skills will be challenged. A new Group Vice President-Nuclear was named and elected to the parent company's board of directors effective April 5, 1993. The new Group Vice President-Nuclear was previously employed by Entergy Operations, Inc., as Vice President, Operations, at the Grand Gulf Nuclear Station. The retiring Group Vice President-Nuclear has been retained in a consultant role until December 1993. In addition to these changes, effective May 3, 1993, STP added a new position, Vice President, Nuclear Support. This position has been filled by the former Vice President, Nuclear Operations, with a new Vice President, Nuclear Operations being named. The New Vice President, Nuclear Operations previously was employed by INPO.

A number of special inspections have been conducted at STP since the last SMM. An Operational Safety Team Inspection was conducted November 30 to December 11, 1992. The team identified weaknesses in the manner that the security and radiological controls departments support operations, in the implementation of the corrective action program by all levels of STP supervision and craft workers, and in the licensee's inservice testing program.

A special inspection conducted January 12-29, 1993, identified eight examples of a failure to perform adequate self-verification by plant operators and maintenance workers. These eight examples represented a continuation of a negative trend in personnel performance that resulted in work being performed on the wrong component, wrong train, and wrong unit. Two enforcement conferences were held on March 8, 1993. The first enforcement conference was to address issues concerning personnel performance at STP. The second enforcement conference was to address issues concerning STP failure to

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independently test all circuits associated with the reactor trip breaker shunt coil, the licensee's entry into Technical Specification (TS) 3.0.3 because of this deficient test, licensee management's failure to inform licensed operators of this condition, and a second TS 3.0.3 event. Civil penalties have been issued for both these violations.

An Augmented Inspection Team (AIT) was sent to STP February 4-24, 1993, to conduct an inspection of the issues surrounding the repeated overspeed trips of both units' TDAFWPs. A Confirmatory Action Letter (CAL) was issued as a result of these overspeed events and required that prior to either unit's restart, STP management brief the staff on the actions taken to correct the deficiencies that caused the overspeed trip conditions. Because of additional problems encountered in both units, a CAL Supplement letter was issued to the licensee on May 7, 1993. This supplement identifies additional topics that STP management will brief the staff prior to restart. This briefing has not yet occurred and both units remain shut down. Unit 1 continues to address a number of issues that include several EDG problems, MOV operability concerns, rod control operability problems, safety injection pump vibration problems, electrical component configuration inadequacies, and steam generator manway leakage; in addition to the required TDAFWP testing that must be completed prior to restart. Unit 2 completed the TDAFWP testing in late February and began a scheduled 85-day outage on February 27, 1993.

The followup inspection after the AIT inspection identified eight apparent violations; including one where the inappropriate voiding of a post maintenance test on a Unit 1 EDG resulted in its inoperability for 24 days and a second concerning an inadequate TDAFWP surveillance test program that resulted in the Unit 1 TDAFWP being inoperable for 33 days. In addition, the inspection identified a period of 61 hours during which a second Unit 1 EDG was inoperable. During this 61-hour period, all three of these safety-related components were determined to be inoperable concurrently. An enforcement conference was conducted April 22, 1993, and a civil penalty proposed.

A special inspection was conducted February 17-19 and 23-26, 1993, concerning numerous MOV deficiencies. One apparent violation of the TS was identified, in that one train of the Unit 1 low head safety-injection system was determined to be inoperable for approximately 18 months. Two other significant weaknesses were identified concerning the licensee's failure to take appropriate corrective action to address identified deficient conditions associated with MOVs. These weaknesses indicate that the trend of station personnel being reluctant to utilize the corrective action system to document known problems is continuing. A civil penalty was issued.

Another special inspection (February 13 to March 17, 1993) addressed the operability of the SSPS. This inspection identified a condition that had existed since initial startup where under a steam line break accident scenario, the SSPS might not have been capable of initiating an ESF signal necessary to mitigate the consequence of the accident. An enforcement conference was conducted May 6, 1993, with enforcement action currently pending.

A diagnostic evaluation team (DET) inspection commenced on March 29, 1993. This inspection completed the onsite period on April 30, 1993. As a result of the interviews conducted by the DET, a significant number of allegations have been received and forwarded to Region IV for resolution. The allegations, in addition to other preliminary DET findings do not appear to have a central theme; however, they are indicative of a work force with low morale and a management style at STP that is less than receptive to addressing workers' concerns of plant material conditions and adequate procedural guidance.

As a result of the number of issues and their potential safety significance, Region IV established an STP Oversight Panel composed of managers from Region IV and NRR. The purposes of this panel are to: 1) assure a consistent agency approach to the issues being identified; 2) assure proper coordination of followup on significant safety issues; 3) schedule significant meetings and inspections; 4) assure that the views and concerns of different NRC offices are properly addressed; and 5) assure proper coordination of the followup of issues identified by the DET inspection. This Panel meets weekly, and has decided, after consultation with senior management, to invoke Manual Chapter 0350, "Staff Guidance for Restart Approval."

During the last SALP assessment period, which ended on August 1, 1992, there were several plant events, near misses, and transients that were caused by equipment failures and problems. Although the frequency of these events had decreased from the first half of that assessment period, recent events (since the last SMM) are indicative of a return to the previous negative trend of performance. The last SALP recognized that the licensee had made significant efforts to improve station reliability and the material condition of the plant; however, recent events indicate that the reliability of a number of safety-related components has decreased.

### III. FUTURE ACTIVITY

As a result of the CAL issued to the licensee on February 5, 1993, following the repeated overspeed trips of both TDAFWPs on February 3-4 1993, a public meeting to discuss the licensee's actions to resolve the deficiencies that caused the overspeed conditions will be scheduled. In addition to these issues, the STP Oversight Panel has developed a number of other topics for resolution prior to startup of either unit. These additional issues were included in the CAL Supplement that was issued to the licensee.

Unit 2 entered its third refueling outage on February 27, 1993. The outage is planned 85 days. Activities planned for completion during the outage include:

- 18 month reactor coolant pump motor inspections
- Sludge lancing of all steam generators
- Main turbine low pressure gland repair
- 98 MOV operation tests
- Low Pressure Turbine No. 21 rotor replacement
- Emergency Diesel Generator No. 21 5-year maintenance
- Emergency Diesel Generators No. 22 and 23 18 month inspection
- Implementation of 53 major modifications
- Replacement of the main feedwater control system with solid-state equipment

Due to Unit 1 being in a forced outage because of the TDAFWP problems, little outage work has been accomplished on Unit 2, and the restart date has slipped significantly. No firm restart date has been announced by the licensee.

## DATA SUMMARY

## I. OPERATIONAL PERFORMANCE

A. Scram SummaryUnit 1

None

Unit 2

- 12/27/92 Manual reactor trip from 100 percent power when a steam generator feedwater regulating valve failed closed and could not be reopened from the control room. The root cause was a failed component in the feedwater regulating control system.
- 1/23/93 Automatic reactor trip from 100 percent power following a turbine trip when a main turbine and steam generator feedwater pump turbine electrohydraulic control (EHC) system pipe, which was common to both turbines, failed. The root cause was a deficient component in the feedwater pump control circuitry that resulted in excessive vibration and subsequent fatigue failure of the EHC piping.
- 2/3/93 Automatic reactor trip from 100 percent power following the loss of a steam generator feedwater pump and the failure of the startup feedwater pump to automatically start and maintain feedwater flow to the steam generators. The root cause of the loss of the steam generator feedwater pump was a high bearing temperature. The root cause of the failure of the startup feedwater pump to start was water intrusion into the pump's lubricating oil system, a condition that had caused the pump to trip previously.

B. Significant Operator Errors

On January 9, 1993, an instrumentation and controls (I & C) technician failed to practice adequate self and independent verification when setting the reactor protection over-power trip setpoints. This resulted in a non-conservative reactor trip setpoint being inserted into the SSPS. This action, in addition to seven other previous examples of improper self-verification were the subject of a special inspection that was conducted January 12-29, 1993, a subsequent enforcement conference, and a civil penalty are being proposed.

On January 25, 1993, a licensed senior reactor operator failed to follow procedures when he performed an unauthorized adjustment of the Unit 2 TDAFWP trip and throttle valve linkage.

On February 14, 1993, both licensed senior reactor operators were absent from the Unit 2 control room for a period of approximately 45 seconds while the unit was in Mode 4. This error, which was due to operator error, resulted in a violation of the TS required staffing requirements.

On March 18, 1993, a nonlicensed operator performed an inadequate self-verification that resulted in de-energizing the plant computer. The event was attributable to fatigue-induced mental lapse as a result of eight consecutive mid-shifts, several were of 12-hour duration.

On March 21, 1993, a nonlicensed operator performed an inadequate self-verification that resulted in positioning an incorrect valve associated with an essential cooling water (ECW) heat exchanger. The control room received an alarm for low ECW pump discharge pressure and informed the operator that he had positioned the wrong train's valve. The licensee determined that the individual did not utilize the self-verification process following a distraction. Contributing causes included communications deficiencies, inadequate staffing for the implementation of this particular surveillance procedure, and the event occurred during the mid-shift.

On April 1, 1993, I & C technicians failed to perform an adequate self-verification that resulted in erroneously positioning a SSPS bistable switch to test. No safety systems were actuated. The licensee determined that the repetitive nature of the surveillance contributed to this event.

#### C. Procedures

A number of procedure weaknesses have been identified since the last SMM. These include: deficient maintenance procedures, weak radiological procedures, inadequate surveillance testing procedures, poor procedural development and review of 20 I & C calibration procedures, and an example of weak implementation of temporary modification procedure.

Several examples of licensee personnel failing to follow procedures have been identified. These include:

- three examples of fire protection weaknesses due to personnel not following procedures
- unauthorized maintenance activities being conducted on safety-related equipment without a procedure and by unqualified personnel
- valve line-ups being altered that result in overspeed trips of the Unit 2 TDAFWP
- a system engineer voiding a post maintenance test following the painting of EDG 13 which resulted in masking the EDG's inoperability

## II. CONTROL ROOM STAFFING

### A. Number of Licensed Operators

	<u>SRO</u>	<u>RO</u>	<u>Total</u>
Licensed Operators	47	38	85

B. Number and Length of Shifts

5 shifts, 3 operating (8-hour shifts), 1-training, 1-off

C. Role of STA

One STA is shared between the two units. They are not assigned to a specific shift crew, nor do they receive training with a specific shift crew. STA's do not hold a senior operator's license. The STA's primary duty is to act as an accident prevention and mitigation advisor to the shift supervisor.

D. Requalification Program Evaluation

A requalification program evaluation was conducted in January 1993 in accordance with Temporary Instruction for Licensed Operator Requalification Program Evaluation. The program was evaluated as satisfactory. The next NRC requalification examination is scheduled for January 1994.

III. PLANT-SPECIFIC AND UNIQUE DESIGN INFORMATION

A. Plant-Specific Information

Owners: Houston Lighting and Power Company  
City of San Antonio  
Central Power & Light Company  
City of Austin

Reactor Supplier/Type: Westinghouse/4-loop PWR

Capacity, MWT: 3800 MWT

Architect/Engineer: Bechtel

Constructor: Ebasco

Commercial Operation: Unit 1: August 25, 1988  
Unit 2: June 19, 1989

B. Unique Design Information

Containment: Dry, carbon steel lined, prestressed, reinforced concrete, cylindrical structure with a hemispherical dome

Emergency Core Cooling Systems: Three high head safety injection, low head safety injection, and containment spray pumps; three safety injection accumulators; three motor-driven, 50 percent capacity, auxiliary feedwater pumps, one turbine-driven, 50 percent capacity auxiliary feedwater pump per unit

AC Power: Eight 345 kV offsite sources; three 5500 kW Cooper-Bessmer emergency diesel generators per unit

DC Power: Four sets of batteries powering four independent Class 1E 125-VDC subsystems per unit

## IV. SIGNIFICANT MPAS OR PLANT-UNIQUE ISSUES

MPA X808: Bulletin 88-08 Thermal Stresses in Piping Connected to the RCS: Licensee has removed temperature sensors from lines identified as possibly susceptible to thermal stratification. Licensee arguments are based on Westinghouse analyses which conclude that fatigue failures are not a concern for the lines. EMEB has questioned the licensee's justification and is in the process of hiring a contractor to complete a detailed review.

MPA B111: GL 88-20 (IPE): Licensee submitted its IPE August 28, 1992. The staff is reviewing the submittal.

MPA B114/115: GL 90-06 PORV Reliability and LTOP: Last remaining issue was licensee's proposal to maintain ability to test PORVs in Mode 5. Licensee has agreed to drop the Mode 5 provision and licensing actions are expected to be completed in the near future.

MPA X201: Bulletin 92-01 Thermolag: The licensee has substantial amounts of thermolag present and has recently responded to the generic letter.

MPA: Station Blackout: The licensee has completed all actions required to meet the SBO rule. The plant is an 8-hour coping plant, using an existing class IE standby diesel generator as an alternate AC power source.

## V. STATUS OF THE PHYSICAL PLANT

A. Problems Attributed to Aging

STP is a relatively new site and no major aging problems have manifested themselves. Because of the length of construction, however, equipment and components are not considered new. There have been many plant events and forced outages primarily because of balance-of-plant equipment problems.

B. Other Hardware Issues

Several longstanding problems associated with the ECW system (dealloying), the EDGs, the main feedwater system, essential chillers, and MOVs have not been fully resolved.

The maintenance backlog has remained high, with greater than 5000 open items on the backlog. The licensee has been unsuccessful in reducing this backlog, which has reached a size that is challenging STP management of maintenance activities.

## VI. PRA

A. PRA Insights

STP is a newer Westinghouse four loop NSSS with a 3 train ECCS design. The ECCS design is unique in that each train delivers flow to a specific RCS loop with no ECCS injection into RCS loop 4 and no cross ties between the other three loops. The success criteria for a large break LOCA require one train of injection to an intact loop. For a small break LOCA, any one train of ECCS is sufficient, regardless of the location of the break.

The RHR pumps at STP are separate from the LPSI pumps and the entire RHR system is inside containment. Also, the HPSI pumps can take suction directly from the sump. Therefore, the HPSI pumps are not dependent on suction from the LPSI pumps or the RHR pumps during the recirculation mode.

STP is equipped with 3 EDGs per unit (one for each ECCS train). The reliability of all six EDGs is above 0.975. However, the unavailability due to maintenance is higher than the industry goals.

#### B. PRA Profile

The STP PSA was submitted to the NRC in 1989 and included analyses of internal and external events. As a result of the PSA findings, an important modification was implemented. This modification involved the connection of the positive displacement charging pump to the technical support center EDG to provide RCP seal cooling in the event of a total loss of AC power.

HL&P responded to GL 88-20 by submitting a Level 2 IPE and IPEEE in August 1992. The original PSA estimated a core damage frequency of  $1.7E-4$  per year. The IPE reports an estimated core damage frequency of  $4.4E-5$  per year for internal and external events. The IPE CDF is about a factor of 4 less than that obtained in the original FJA. The IPE has not been reviewed by RES, so it is not yet clear what has contributed to the decrease in the CDF estimate. The licensee attributes the decrease in CDF to a reduction in conservatism. The dominant initiators contributing to core damage from the IPE are listed below:

Loss of Offsite Power (LOOP)	35.3%
Loss of Electrical Auxiliary Building HVAC (resulting in an internally induced SBO)	20.1%
Small LOCA	5.4%
Reactor Trip	5.1%
Transient induced LOOP	5.0%
Steam Generator Tube Rupture	4.8%
Turbine Trip	3.2%
Medium LOCA	2.8%
Loss of Essential Cooling Water	2.6%
Loss of Control Room HVAC	2.3%
All Others	13.2%

While full treatment of external events and internal plant hazards such as fires and floods was included in the IPE submittal, such events contributed less than 4% to the total core damage frequency. This contribution to total CDF from external events is a significantly smaller percentage than any other recently published PRA for a PWR plant has estimated. HL&P attributes this small contribution to two principal reasons. First, the site has a very low seismicity in relation to the design basis earthquake. Second, there is ample redundancy and physical separation in the ECCS trains, which would reduce the likelihood that internal fires and floods and other spatial interactions could result in a serious accident.

The licensee found no significant accident sequence outliers as a result of performing the IPE.

C. Core Damage Precursor Events

On the basis of the precursors identified by ORNL for 1991 (NUREG/CR-4674, vols. 15 and 16) and the preliminary precursors for 1992, SPSB did not identify any precursor events for the site that have a conditional core damage probability of  $1E-5$  per year or greater.

SPSB notes the following event for its potential safety significance. This event has been classified by the Events Assessment Branch as a "Significant Event". STP Unit 1 experienced overspeed trips of their TDAFW pump during surveillance tests on December 27, 1992 and January 28, 1993. Also, on February 3, 1993, the Unit 2 TDAFW pump tripped on overspeed during an actual demand after a plant trip. The licensee performed an analysis of the Unit 1 condition with the assumption that the TDAFW pump was inoperable for 33 days. The CDF increased from  $4.4E-5$  (as reported in the IPE) to  $4.5E-5$  per year. This analysis has not yet been reviewed by the staff.

During the same time period (December 29, 1992, thru January 22, 1993), Unit 1 DG-13 was inoperable due to paint drips on the fuel metering rod ports. Furthermore, Unit 1 EDG-12 was out of service for a 61 hour planned maintenance period while EDG-13 was inoperable.

When the EDG event and the TDAFW pump trip event are analyzed as separate events, the risk does not appear to be significant. However, since the EDG-13 and the TDAFW pump were inoperable during the same period, SPSB is planning a request for AEOD to analyze the overall situation as a potential precursor.

## VII. ENFORCEMENT HISTORY

## SIGNIFICANT ENFORCEMENT HISTORY (Since April 1991)

## REACTOR OPERATIONS - SUPPLEMENT I

JULY 1991  
(EA 91-74)

CIVIL PENALTY - The action was based on three violations associated with the plant's ATWS system that were classified in the aggregate as a Severity Level III problem. A civil penalty was issued to emphasize the importance of ensuring the reliability and operability of equipment required to serve an important safety function. Partial mitigation of the civil penalty was appropriate for the licensee's corrective actions, but was offset by the escalation for NRC identification and duration. (\$75,000)

APRIL 1993  
(EA 92-175)

CIVIL PENALTY - The action was based on a number of violations of established procedures which resulted in the failure to inform NRC licensed operators in the control room of potentially significant conditions that could have affected the operation of the plant. Because the failures to follow established procedures involved plant management personnel, these violations were classified as a Severity Level III problem. A civil penalty was issued to emphasize the need for managers, when necessary, to promptly and properly interface with the NRC-licensed personnel in the



control room and the importance of plant management personnel following or properly modifying established procedures. Mitigation of the civil penalty was appropriate for the licensee's corrective actions, but it was offset by the escalation for NRC identification and the licensee's prior opportunity to identify one of the violations. (\$75,000)

APRIL 1993  
(EA 93-23)

CIVIL PENALTY - The action was based on numerous examples of failures to adhere to procedural requirements regarding self-verification that primarily involved the failure to verify the correct unit, correct train, or correct device before conducting testing or maintenance activities. Although none of the errors resulted in adverse safety consequences, collectively they represented a significant regulatory concern and were classified as a Severity Level III problem. A civil penalty was issued to emphasize the importance of attention to detail and the need for the licensee to be aggressive in implementing corrective actions of a lasting nature. The civil penalty was partially mitigated based on the licensee's corrective actions. (\$25,000)

APRIL 1993  
(EA 93-47)

CIVIL PENALTY - The action was based on the licensee's failure to take corrective actions for a failed motor on a motor operated valve in the Unit 2 Low Head Safety Injection System. The violations involved in this action were classified as a Severity Level III problem because (1) a safety-related valve went unrepaired for 18 months despite multiple opportunities to recognize the significance of the problem, and (2) operations personnel did not recognize the technical specification implications of operating the reactor with the valve inoperable. A civil penalty was issued to emphasize the importance of ensuring that identified problems that have the potential to affect the operability of safety systems are resolved in a timely manner and are resolved commensurate with their relevance to ensuring compliance with plant Technical Specifications. Mitigation of the civil penalty was appropriate for the licensee's aggressive identification of the root causes of the self-identifying event, but was offset by the escalation for the duration of the inoperable valve and the licensee's inadequate corrective actions. (\$75,000)

#### SAFEGUARDS - SUPPLEMENT III

JULY 1991  
(EA 91-068)

SEVERITY LEVEL III VIOLATION - The action was based on physical security violations including one STP employee bringing a firearm into the protected area. The civil penalty was fully mitigated based on licensee identification and prompt corrective action.

#### MISCELLANEOUS MATTERS - SUPPLEMENT VII

DECEMBER 1991  
(EA 91-055)

CIVIL PENALTY - The action was based on the licensee's failure to keep complete and accurate records of

preventative maintenance activities for safety-related valves in the safety injection system and the reactor coolant purification system. A civil penalty was issued to emphasize the importance of ensuring that records kept of the conduct of licensed activities be complete and accurate and that licensed activities are conducted in strict compliance with regulatory requirements. Mitigation of the civil penalty was appropriate for licensee identification and corrective action, but was offset by the escalation for multiple occurrences. (\$50,000)

PENDING  
(EA 93-43)

The staff is considering enforcement action for potential discrimination against security force members.

PENDING  
(EA 93-56)

The staff is considering enforcement action for apparent harassment and intimidation of a contract I&C technician.

PENDING  
(EA 93-57)

The staff is considering enforcement action for potential Technical Specification violations involving emergency diesel generators and auxiliary feedwater pumps.

PENDING  
(EA 93-66)

The staff is considering enforcement action for an apparent violation of design control (undersizing of fuses) that may have prevented the Solid State Protection System from properly actuating.