

SIMULATION FACILITY CERTIFICATION

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST: 120 HRS. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE INFORMATION AND RECORDS MANAGEMENT BRANCH (MNEB 7714), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0138), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.

INSTRUCTIONS. This form is to be filed for initial certification, recertification (if required), and for any change to a simulation facility performance testing plan made after initial submittal of such a plan. Provide the following information, and check the appropriate box to indicate reason for submittal.

FACILITY Peach Bottom Atomic Power Station, Unit 2	DOCKET NUMBER 50- 277*
LICENSEE Philadelphia Electric Company	DATE 2/8/91

This is to certify that:

1. The above named facility licensee is using a simulation facility consisting solely of a plant-referenced simulator that meets the requirements of 10 CFR 55.45.
2. Documentation is available for NRC review in accordance with 10 CFR 55.45(b).
3. This simulation facility meets the guidance contained in ANSI/ANS 3.5, 1985, as endorsed by NRC Regulatory Guide 1.149.
If there are any exceptions to the certification of this item, check here and describe fully on additional pages as necessary.

NAME (or other identification) AND LOCATION OF SIMULATION FACILITY

Peach Bottom Atomic Power Station Unit 2 Simulator
Peach Bottom Atomic Power Station
RD #1, Box 208, Delta, PA 17314

SIMULATION FACILITY PERFORMANCE TEST ABSTRACTS ATTACHED. (For performance tests conducted in the period ending with the date of this certification)

DESCRIPTION OF PERFORMANCE TESTING COMPLETED (Attach additional page(s) as necessary, and identify the item description being continued)

Exhibit I, Peach Bottom Atomic Power Station Unit 2 - Simulator Performance Report, of the Nuclear Training Division Simulator Certification Procedure is attached. This Report documents the Simulation Facility Performance as it relates to the Reference Plant in accordance with ANSI/ANS-3.5-1985 Appendix A. Performance Test Abstracts and a description of the Performance Testing completed are found in Section IV.A, IV.B and IV.C of the report.

SIMULATION FACILITY PERFORMANCE TESTING SCHEDULE ATTACHED. (For the conduct of approximately 25% of performance tests per year for the four year period commencing with the date of this certification.)

DESCRIPTION OF PERFORMANCE TESTING TO BE CONDUCTED. (Attach additional page(s) as necessary, and identify the item description being continued)

Exhibit I, Peach Bottom Atomic Power Station Unit 2 - Simulator Performance Report, of the Nuclear Training Division Simulator Certification Procedure is attached. This Report documents the Simulation Facility Performance as it relates to the Reference Plant in accordance with ANSI/ANS-3.5-1985 Appendix A.
A description of the testing to be conducted, and the Performance Test Schedule are found in Section IV.D.

PERFORMANCE TESTING PLAN CHANGE. (For any modification to a performance testing plan submitted on a previous certification)

DESCRIPTION OF PERFORMANCE TESTING PLAN CHANGE (Attach additional page(s) as necessary, and identify the item description being continued)

RECERTIFICATION (Describe corrective actions taken, attach results of completed performance testing in accordance with 10 CFR § 55.45(b)(5)(iv). Attach additional page(s) as necessary, and identify the item description being continued.)

Any false statement or omission in this document, including attachments, may be subject to civil and criminal sanctions. I certify under penalty of perjury that the information in this document and attachments is true and correct.

SIGNATURE - AUTHORIZED REPRESENTATIVE

TITLE Vice President,
Peach Bottom Atomic Power Station

DATE 2/8/91

In accordance with 10 CFR § 55.5, Communications, this form shall be submitted to the NRC as follows:

BY MAIL ADDRESSED TO: Director, Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
Washington, DC 20565

BY DELIVERY IN PERSON TO THE NRC OFFICE AT: One White Flint North
11555 Rockville Pike
Rockville, MD

List of Exceptions to ANSI/ANS-3.5, 1985
for PBAPS Unit 2 Certification

I. The following are exceptions to the physical arrangement of the Unit 2 and Common panel areas:

- Entrances to the Simulator spaces are from behind the Radiation Monitoring and H₂ Water Chemistry panels (00C014 and 20C810), instead of behind the Reactor Protection panels (20C017).
- The Offgas Recombiner Panel, 00C196 is terminated at the junction of the Common system equipment controls and the Unit 3 controls; thus only the Unit 2 and Common equipment is included.
- The Unit 2 H₂ Water Chemistry Panel, 20C810, is located adjacent to the shortened Offgas Recombiner Panel adjacent to the Common equipment. In the Reference Plant Control Room, the 20C810 Panel is located adjacent to the Unit 3 Offgas Recombiner equipment on 00C196.
- The 00C014 Radiation Monitoring Panel is located adjacent to the 20C810 Panel in place of the 30C310 Panel (Unit 3 H₂ Water Chemistry Panel).
- The relay panels (20C017 through 00C020C) are displaced approximately 2 feet to the right (facing the front of the panels); this is to allow access to the rear entrance of the instructors' station.

II. The following are exceptions to control panel design:

- Annunciator panel window lights in the simulator are dimmer than those in the PBAPS control room. As a result, the windows that are color coded blue have the color only on half the window (on a diagonal); this is done to maintain readability. These windows in the Reference Plant have the blue fully across the face of the annunciator window. This was an authorized substitution made during Simulator procurement.

III. The following are exceptions to the design of information displays, physical controls, and equipment on simulated control panels:

- Tracor-Westronics recorders have been substituted for GEMAC recorders. These recorders are outdated and no longer available; the Reference plant has been substituting in the same manner when existing GEMAC recorders can no longer be repaired. This was an authorized substitution made during Simulator procurement.
- L&N Thermal Multipoint Recorders are substituted for Speed-O-Max W recorders used in the Reference Plant. This was an authorized substitution made during Simulator procurement.

- Feedwater Control controller for CV-2558 in the Simulator on panel 20C005A does not replicate the controller in the plant; it does not have the same selectable positions. CMS Work Order 900443 has been issued to correct this exception.
- Radiation Indicating Switch RIS-8394 and the associated position indicating lights for AO-8416 on panel 20C010 are not installed on the Simulator. CMS Work Order 890113 has been issued to correct this exception.
- The demand metering on panel 00C020C is not simulated. This was an authorized substitution made during Simulator procurement.

IV. The following are exceptions to the Simulator Control Room environment in the areas of flooring, lighting, obstructions, and communications equipment:

- The floor structure for the simulator is a standard computer floor with carpeting; the carpeting is the same as the PBAPS Control Room except for seaming as necessary to allow access to the computer flooring. This was an authorized substitution made during Simulator procurement.
- The PBAPS Control Room lighting is divided into four separate groupings with different power supplies, 2 separate DC and 2 separate AC sources; because of building wiring limitations, the Simulator has only two groupings of lighting, one simulating a DC and 1 an AC power source. This was an authorized substitution made during Simulator procurement. The Simulator and Unit 2 Control Room area lighting and lighting levels have been designed to be the same.

V. The following is an exception to the Simulator Training Capabilities:

- Malfunctions inserted using the remote triggers may alert the operator to an impending event.

VI. The following is an exception to Performance Test requirements:

- The following parameters did not match Reference Plant data within $\pm 2\%$ or $\pm 10\%$ during the performance of SSPT HEAT BAL at one or more of the tested power levels:

Recirculation Loops A and B flow,

Total Steam Flow,

Total Feedwater Flow,

Control Rod Drive Temperature

Main Condenser Temperature

TP 161 - EXHIBIT I
PEACH BOTTOM ATOMIC POWER STATION
UNIT 2 - SIMULATOR PERFORMANCE REPORT

DATE OF REPORT: 01/31/91

I. PURPOSE

This report documents the conformance of the Peach Bottom Atomic Power Station Unit 2 Simulator (the Simulator) to the performance requirements of:

- A. NRC 10CFR55.41/ANS-3.5-1985, Nuclear Power Plant Simulators for Use In Operator Training
- B. Regulatory Guide 1.149, Nuclear Power Plant Simulation Facilities for Use in Operator License Examinations
- C. 10CFR55, Operator's Licenses.

II. SIMULATOR INFORMATION

The following information is provided as background on the Simulator and its capabilities as a medium for PBAPS Unit 2 operator training.

A. General Information

1. Owner/Operator/Manufacturer

- a. The Simulator is owned by:

Banker' Lease Corporation
2655 Campus Dr.
Suite 200
San Mateo, CA 94403-2753

- b. The Simulator is operated by:

Philadelphia Electric Company
Peach Bottom Atomic Power Station
R.D. # 1 Box 208
Delta, PA 17314

- c. The Simulator was manufactured by the Link Simulation Systems Division of the Singer Company, Columbia, MD

2. The Simulator is Plant-Referenced Simulator, referenced to Unit 2 of the Peach Bottom Atomic Power Station.

Unit 2 of PBAPS is a General Electric Boiling Water Reactor (BWR/4 design) with ratings of 3293 MWt and 1100 MWe, and a General Electric Mark I Containment Design.

3. The Simulator was initially declared available for training on August 29, 1989.
4. This is the initial report of Standard compliance for the Simulator.

B. Control Room

The Simulator simulates those PBAPS Control Room panels designated as Unit 2 and/or Common panels, and selected Unit 2 remote control panels. A comparison of the corresponding PBAPS and Simulator control panels has been made. The results of these comparisons are itemized in the following areas:

1. Control Room/Simulator Physical Arrangement.

As shown on the attached drawings;

- a. M-10, EQUIPMENT LOCATION TURBINE BUILDING UNIT No. 2
PLAN AT EL. 165'-0"
- b. SIMULATOR FACILITY CONTROL PANEL ARRANGEMENT

the Simulator physical arrangement is nearly identical to the PBAPS Control Room for the Unit 2 and Common Panel areas. The Unit 3 panel area is replaced by the instructor's station, the viewing gallery, a classroom and the Simulator Computer room. Unit 3 panel 30C009 is included in the Simulator, and is visually simulated only. The following are exceptions to the physical arrangement of the Unit 2 and Common panel areas:

- Entrances to the Simulator spaces are from behind the Radiation Monitoring and H₂ Water Chemistry panels (00C014 and 20C810), instead of behind the Reactor Protection panels (20C017).
- The Offgas Recombiner Panel, 00C196 is terminated at the junction of the Common system equipment controls and the Unit 3 controls; thus only the Unit 2 and Common equipment are included.

- The Unit 2 H₂ Water Chemistry Panel, 20C810, is located adjacent to the shortened Offgas Recombiner Panel adjacent to the Common equipment. In the Reference Plant Control Room, the 20C810 Panel is located adjacent to the Unit 3 Offgas Recombiner equipment on OOC196.
- The OOC014 Radiation Monitoring Panel is located adjacent to the 20C810 Panel in place of the 30C810 Panel (Unit 3 H₂ Water Chemistry Panel).
- The relay panels (20C017 through OOC020C) are displaced approximately 2 feet to the right (facing the front of the panels); this is to allow access to the rear entrance of the instructors' station.

2. Other Control Panels

In addition, the Simulator complex includes the remote Unit 2 Control panels listed below. These panels are provided for training on unit shutdown from outside the Control Room. As such they are located outside the Simulator Control Room panel area.

- a. Remote Shutdown Panel and miscellaneous Alternative Shutdown Panels; located in a locked room behind the viewing gallery.
- b. RHR and HPCI Alternative Shutdown panels, located in a locked room adjacent to the Simulator Computer Room.
- c. E22 Bus, the remaining Alternative Shutdown Panels, the E2 and E4 DG Alternative Shutdown Panels; located in a locked room adjacent to the Simulator Computer Room.

3. Panels/Equipment

- a. The PBAPS Simulator control panels, including the remote panels, are designed to be the same in size, shape, coloring, configuration, and arrangement as the PBAPS Unit 2 and Common control panels, with the following exceptions (for substitutions listed below, see the Project Letter File Report):

- Annunciator panel window lights in the simulator are dimmer than those in the PBAPS control room. As a result, the windows that are color coded blue have the color only on half the window (on a diagonal); this is done to maintain readability. These windows in the Reference Plant have the blue fully across the face of the annunciator window. This was an authorized substitution made during Simulator procurement.
- b. All information displays, physical controls and equipment on these panels replicate those in the Reference Plant. Plant information is displayed to the operator in the same form and units that as on the reference plant. The following are exceptions:
- Tracor-Westronics recorders have been substituted for GEMAC recorders. These recorders are outdated and no longer available; the Reference plant has been substituting in the same manner when existing GEMAC recorders can no longer be repaired. This was an authorized substitution made during Simulator procurement.
 - L&N Thermal Multipoint Recorders are substituted for outdated Speed-O-Max W recorders used in the Reference Plant. This was an authorized substitution made during Simulator procurement.
 - Feedwater Control controller for CV-2558 in the Simulator on panel 20C005A does not replicate the controller in the plant; it does not have the same selectable positions. CMS Work Order 900443 has been issued to correct this exception.
 - Radiation Indicating Switch RIS-8394 and the associated position indicating lights for AO-8416 on panel 20C010 are not installed on the Simulator. CMS Work Order 890113 has been issued to correct this exception.
 - The demand metering on panel 00C020C is not simulated. This was an authorized omission made during Simulator procurement.

- c. The attached PBAPS UNIT 2/SIMULATOR CONTROL PANEL PHYSICAL DIFFERENCES Report documents other differences between the PBAPS Unit 2 and Common Control Room panels and those in the Simulator, as well as differences between the Simulator remote panels that are simulated and those in the Reference Plant. Those differences that are not scheduled for correction represent dimensional configuration deviations which will not impact the actions to be taken by the operator.

4. Systems

The Simulator simulates those systems necessary to support PBAPS Unit 2 operations for the Normal Evolutions and Malfunctions required in Section 3.1 of the Standard. The Unit 2 systems simulated are listed in the attached list of PBAPS UNIT 2 SIMULATOR SYSTEMS SIMULATED.

5. Simulator Environment

The Simulator Control Room environment has been designed to be as close as possible to the PBAPS Control Room Environment in the areas of; flooring, lighting, obstructions, and communications equipment. The following are exceptions:

- The floor structure for the simulator is a standard computer floor with carpeting; the carpeting is the same as the PBAPS Control Room except for seaming as necessary to allow access through the computer flooring. This was an authorized substitution made during Simulator procurement.
- The PBAPS Control Room lighting is divided into four separate groupings with different power supplies, 2 separate DC and 2 separate AC sources; because of building wiring limitations, the Simulator has only two groupings of lighting, 1 simulating a DC and 1 an AC power source. This was an authorized substitution made during Simulator procurement. The Simulator and Unit 2 Control Room area lighting and lighting levels have been designed to be the same.

Remote Control Panels that are simulated are located in rooms separate from the Control Room panels for the Simulator. Their environment does not duplicate the conditions at the actual plant remote Control panels.

C. Instructor Interface

The Simulator is provided with the following Instructor Interfaces which allow the conduct of training and examinations. All interfaces can be controlled from the Instructor's Station; the Freeze/Run, Reset, Switch Check Override, Backtrack, and Remote Triggers can also be controlled from two remote stations on the Simulator floor.

1. Freeze/Run

The simulation may be stopped (Freeze) and then restarted again (Run), continuing from the time it was stopped.

2. Initialization Conditions/Snapshot/Reset

a. 50 Initialization Conditions (IC's) are provided to allow saving the current condition of the simulation models for future restoration. Each of the Initialization Conditions is saved by maneuvering the Simulator to the desired plant conditions, then performing a SNAPSHOT (save) to the desired IC. The Simulator can then be returned to the saved plant conditions by performing a RESET (reinitialization) to the Snapshot IC at a later time. Of the 50 IC's provided, the first 20 are password protected (Protected IC's) and are set and maintained through the Simulator Configuration Management process. The 50th is a default IC for Snapshot. The remaining 29 IC's are available for training and examination scenario use, and for Simulator testing.

b. The attached list of PROTECTED INITIALIZATION CONDITIONS documents the plant conditions represented by the Protected IC's.

3. Simulator Malfunctions

a. A total of 380 Simulator Malfunctions are provided to generate inherent plant response and automatic plant control functions, including all of the malfunctions listed in Section 3.1.2 of the Standard.

- b. Malfunctions may be inserted and removed from the instructors station in a manner that does not alert the operator to the impending event. An exception to this is:
 - Malfunctions inserted the remote triggers.
- c. Up to 30 malfunctions can be inserted simultaneously and/or sequentially with the following options: initial, final and/or ramp severity for variable severity malfunctions; event and/or remote triggering; and/or time delay as desired.
- d. The ability to incorporate additional malfunctions is inherent in the Simulator design. This has recently been done in the incorporation of Modifications 1457 and 865 (see Section IV.B).
- e. Malfunctions are validated by performance of the Transient and Malfunction Performance Tests (see Sections V.A.3 and V.A.4).
- f. The following reports are attached to document the Malfunctions provided.
 - (1) A MALFUNCTION CAUSE AND EFFECTS Sheet for each Simulator Malfunction; which lists generic components, severity ranges, and expected response.
 - (2) The SIMULATOR PERFORMANCE TESTS Report (described in Section V.C) lists the Simulator Performance Test associated with each Simulator Malfunction, the last date the Performance Test was completed, and the results of the test.

4. Remote Functions

- a. Remote Functions are provided to allow the instructor to simulate the actions of auxiliary operators.
- b. Remote Functions are controlled from the instructors station.
- c. Up to 10 Remote Functions can be selected at one time to be changed by an event trigger.

- d. The ability to incorporate additional Remote Functions is inherent in the Simulator design as has been done during incorporation of Plant Modifications into the Simulator (see Section IV.B).
- e. Remote Functions are validated during the performance of the Steady-State and Normal Operations Performance Tests, or Transient Performance Tests (see Sections V.A.2 and V.A.4). Performance Criteria for acceptable performance of Remote Functions are listed in TP - 161 Section 7.2.2.1, and on the attached REMOTE FUNCTIONS VALIDATION Report. The Report also lists the Remote Functions, the Simulator Performance Test during which each is validated, and the results of that validation.

5. Additional/Special Instructor Training Features Available

a. Annunciator Controls

The Instructor's Station has the following annunciator controls:

- (1) Acknowledge, affects all annunciators
- (2) Reset, affects all annunciators set to the manual reset mode
- (3) Test, affects all annunciators.
- (4) Master Annunciator Silence, inhibits all annunciator audible sound.

b. Fast/Slow Time

- (1) Fast time allows the instructor to change the integration constant of certain parameters, making it appear that they change more rapidly than normal. The following parameters can be run at up to 10 times normal rate:
 - (a) Core Physics parameters; Xenon, Boron Concentration, and Decay Heat
 - (b) Turbine metal temperatures
 - (c) Condenser Vacuum
 - (d) Reactor Recirculation Temperatures
 - (e) Containment Hydrogen Concentration

- (2) Slow time allows the instructor to run all of the simulation models at 1 to 1/10th normal time for observation of rapid processes.

c. Event Triggers/Remote Triggers

- (1) Event triggers are Boolean expressions that can be constructed to sense a specific occurrence or change in a simulated parameter or condition. Event triggers can be used to automatically initiate, delete or change an entered Malfunction, Remote Function or Override based on events that occur during a scenario.
- (2) Up to 10 event triggers can be defined at one time.
- (3) Two Remote Triggers are provided to allow the instructor to initiate, delete or change an entered Malfunction, Remote Function or Override from the Simulator operating floor.

d. Backtrack

- (1) The Backtrack function stores a snapshot at one minute intervals of the current simulated conditions in a circular file with a capacity of 60 snapshots.
- (2) This function will allow the instructor to retrieve any backtrack condition in the circular file, reset the Simulator to that condition and continue simulation from that point.

e. Switch Check

The switch check feature allows the instructor to identify maintained position switches and instruments that are misaligned when the Simulator is reset to a new or backtrack IC. Switch check can be overridden from the instructor's stations.

f. I/O Overrides

- (1) I/O Overrides are provided to override the operation of panel switches, lights, indicators and recorders to simulate specific control and instrumentation failures.
- (2) I/O Override functions can be event or remote triggered, or time delayed as desired.
- (3) I/O Overrides are not available for the following types of instrumentation:
 - (a) Synchrosopes
 - (b) Multipoint Recorders
 - (c) BCD Displays

g. Trip Override

- (1) A Trip Override overrides an automatic plant trip function to allow simulation of loss of protective functions.
- (2) Trip overrides are available for these systems:
 - (a) Automatic Depressurization
 - (b) Core Spray
 - (c) Main Generator
 - (d) Condensate and Feed Water
 - (e) High Pressure Coolant Injection
 - (f) Reactor Core Isolation Cooling
 - (g) Rod Drive
 - (h) Residual Heat Removal
 - (i) Reactor Protection, PCIS, and ARI
 - (j) Turbine Control

- (3) Trip Override performance are validated during the performance of the Steady-State and Normal Operations Performance Tests, Malfunction Performance Tests, or Transient Performance Tests (see Sections V.A.2, V.A.3 and V.A.4). Performance Criteria for acceptable performance of a Trip Override are listed in TP - 161 Section 7.2.2.2, and on the attached TRIP OVERRIDE VALIDATION Report. The Report also lists the Trip Overrides, the Simulator Performance Test during which each is validated, and the results of that validation.

h. Monitored Parameters

- (1) Simulation parameters may be monitored from the Instructor's Station in three forms. These are updated once per second, with the maximum number that can be monitored for each form as listed:
 - (a) Numeric tabulation - 24 maximum, 12 per screen with 2 screens
 - (b) CRT trending - 4 maximum
 - (c) Pen recorder trending - 8 maximum
- (2) Any analog values from global simulator computer memory can be monitored; for ease of selection, up to 50 parameters can be assigned to a Monitored Parameters assignment menu.

i. Simulator Operating Limits

In order to prevent negative training, in case the Simulator calculates events that are beyond plant design limits or the scope of simulation, the instructor's station will freeze the simulation as well as audibly and visually alert the instructor that a Simulator Operating Limit has been reached. Recovery from such an occurrence requires re-initialization of the simulator.

D. Operating Procedures for the Reference Plant

1. The Simulator utilizes a Controlled set of PBAPS Unit 2 Operating Procedures and Technical Specifications to conduct all training, examinations, and testing.

2. Sections V.A.2 and V.C of this report documents the ability to operate the Simulator in accordance with the PBAPS Unit 2 operating procedures.

E. Changes Since Last Report

This is the Initial Report.

III. SIMULATOR DESIGN DATA

- A. The Simulator Design Database is the complete set of data to which the simulator was originally designed, updated by the Reference Plant Modifications that have been incorporated in the Simulator since original manufacture. Modifications are incorporated and tracked via the Simulator Configuration Management System (CMS), described in Section VI, and the change documents are added to the database through that procedure.

The attached SIMULATOR DESIGN DATABASE Report combines the original Simulator Design Data with updated data, and thus representing the current configuration and the original.

- B. Since initial procurement of the Simulator, Plant Modifications have been installed or scheduled for installation as follows:

1. Several modifications were identified subsequent to the procurement freeze date and prior to delivery on site. Those installed on the Simulator prior to delivery are listed in the attached PEACH BOTTOM UNIT 2 SIMULATOR MODIFICATIONS INSTALLED BEFORE DELIVERY Report.
2. Following delivery on site, Plant Modifications were re-evaluated for impact on the Simulator, and scheduled for installation:
 - a. Those Plant Modifications that have been installed since delivery are listed in the attached PEACH BOTTOM UNIT 2 SIMULATOR MODIFICATIONS INSTALLED SINCE DELIVERY Report.
 - b. Those Plant Modifications that are currently in the process of being installed on the Simulator are listed in the attached PEACH BOTTOM UNIT 2 SIMULATOR MODIFICATIONS CURRENTLY BEING INSTALLED Report.

The Simulator Design Data is updated by CMS as Plant modifications are implemented on the Simulator.

C. Reference Plant Performance Data, as well as other performance data listed below, is collected and used to compare to Simulator performance. Data for comparison of Simulator performance may be from four sources. In order of preference, these are:

- Reference Plant Performance Data
- Design Analysis Performance Data
- Similar Plant Performance Data
- Best Estimate Performance Data

The documents in each category identified for this purpose are to become a part of the Simulator Design Database and will be tracked as a part of that database.

IV. SIMULATOR TESTS

A. Simulator performance is validated by preparing and conducting Simulator Performance Tests. These Performance Tests are classified as one of four types:

1. Simulator Computer Performance Tests (Prefix SCPT)

The Computer Real Time Performance Tests verify real time simulation.

2. Steady State and Normal Operations Performance Tests (Prefix SSPT)

Steady-State and Normal Operations Performance Tests demonstrate: 1) the stability of the Simulator; and 2) the ability of the Simulator to be operated in accordance with Reference Plant Operating Procedures.

Steady-State and Normal Operations Performance Tests include:

- a. Simulator Operability Tests

- (1) Simulator stability and mass balance verification
- (2) Simulator energy balance verification

- b. Ability to perform Normal Plant Evolutions using the General Operating Procedures for the following:
 - (1) Plant startup from cold to hot standby conditions
 - (2) Nuclear startup from hot standby to rated power
 - (3) Turbine startup and generator synchronization
 - (4) Reactor trip followed by recovery to rated power
 - (5) Operations at hot standby
 - (6) Load Changes
 - (7) Startup, shutdown and power operations with less than rated coolant flow
 - (8) Plant shutdown from rated power to hot standby and cooldown to cold shutdown conditions

- c. Ability to perform plant operating procedures, including:
 - (1) Core performance Surveillance Test procedures
 - (2) Operator conducted Surveillance and Routine Test procedures
 - (3) System Operating procedures

- d. Ability to perform abnormal and emergency operating procedures, including:
 - (1) Abnormal Operating procedures
 - (2) Off-Normal Operating procedures
 - (3) Operational Transient procedures
 - (4) Special Event procedures
 - (5) Trip procedures

3. Transient Performance Tests (Prefix STPT or SMPTT)

Transient Performance Tests are to include: transients that have occurred in the reference plant for which data is available, transients which are accidents or major occurrences for which no reference plant data exists, and those Simulator Operability Transient Performance Tests listed in Appendix B of the Standard for BWRs.

4. Malfunction Performance Tests (Prefix SMPT)

Malfunction Performance Tests are to include tests of each generic Simulator Malfunction.

- B. Within each of these classifications, the required tests are identified by TP - 161, Simulator Certification Procedure, and performance tests are generated to establish the criteria for the each test (see TP - 161, Section 7.4).
1. For each of the test categories, TP-161 lists the required performance Acceptance Criteria which are to be used to judge the acceptability of the test results; these Acceptance Criteria are included in each performance test.
 2. A data collection system is available to collect data on up to 20 parameters for evolutions, malfunctions, and/or transients. This data can be processed and plotted against time to verify parameter response. The time resolution of the system is variable. The default collection interval is 0.67 sec., which is sufficient to determine compliance with the performance criteria of the Standard. Collection intervals of less than 0.4 sec. are available; 0.5 sec. is used to collect data for the Operability Transients specified in Appendix B of the Standard.
 3. The attached Test Examples binder presents copies of the most recently completed Annual Operability and Simulator Transient Performance Tests; as well as the test procedures for performance of Simulator Malfunction and Steady State Performance Tests.
- C. The attached SIMULATOR PERFORMANCE TESTS Report lists all those tests required to validate simulator performance, the date(s) that the test as completed for certification, and the test results.

D. Simulator Performance Test Scheduling

1. All Performance Tests will be performed for initial Certification. Following initial Simulator Certification, performance tests will be scheduled with the following guidelines:
 - a. Steady State and Normal Operations Performance Test procedures that demonstrate the ability to operate the Simulator in accordance with reference plant operating procedures will be retested following initial certification only when the applicable procedure has changed in a manner that affects the required performance of the Simulator, or as directed by the Supervisor, Simulator Support.
 - b. The Simulator Operability Performance Tests required by Appendix B of the Standard will be scheduled each calendar year.
 - c. Simulator Malfunction and Transient Performance Tests will be scheduled so that approximately 25% per year are tested (all will be retested in the four year Certification interval). In addition Malfunctions representing at least 25% of the categories listed in Section 3.1.2 of the Standard will be scheduled for testing per year.
2. If changes to the Simulator result in a significant change in Simulator configuration change in expected performance, a complete retest will be made; subsequent test scheduling will be as if initial certification had been completed.
3. The attached SIMULATOR PERFORMANCE TEST SCHEDULE shows the schedule for Performance Tests for the next four years.
4. The tests to be performed over the next four years are expected to be the same except in those cases where:
 - a. Plant Modifications add, delete, or alter systems that are simulated,
 - b. Additional plant data becomes available which may add a test, or change the status of a test.

The attached list of TEST DIFFERENCES specifies the known Plant Modifications which may result in a change in the Simulator Performance Tests to be performed during the four years between Simulator Certification submittals.

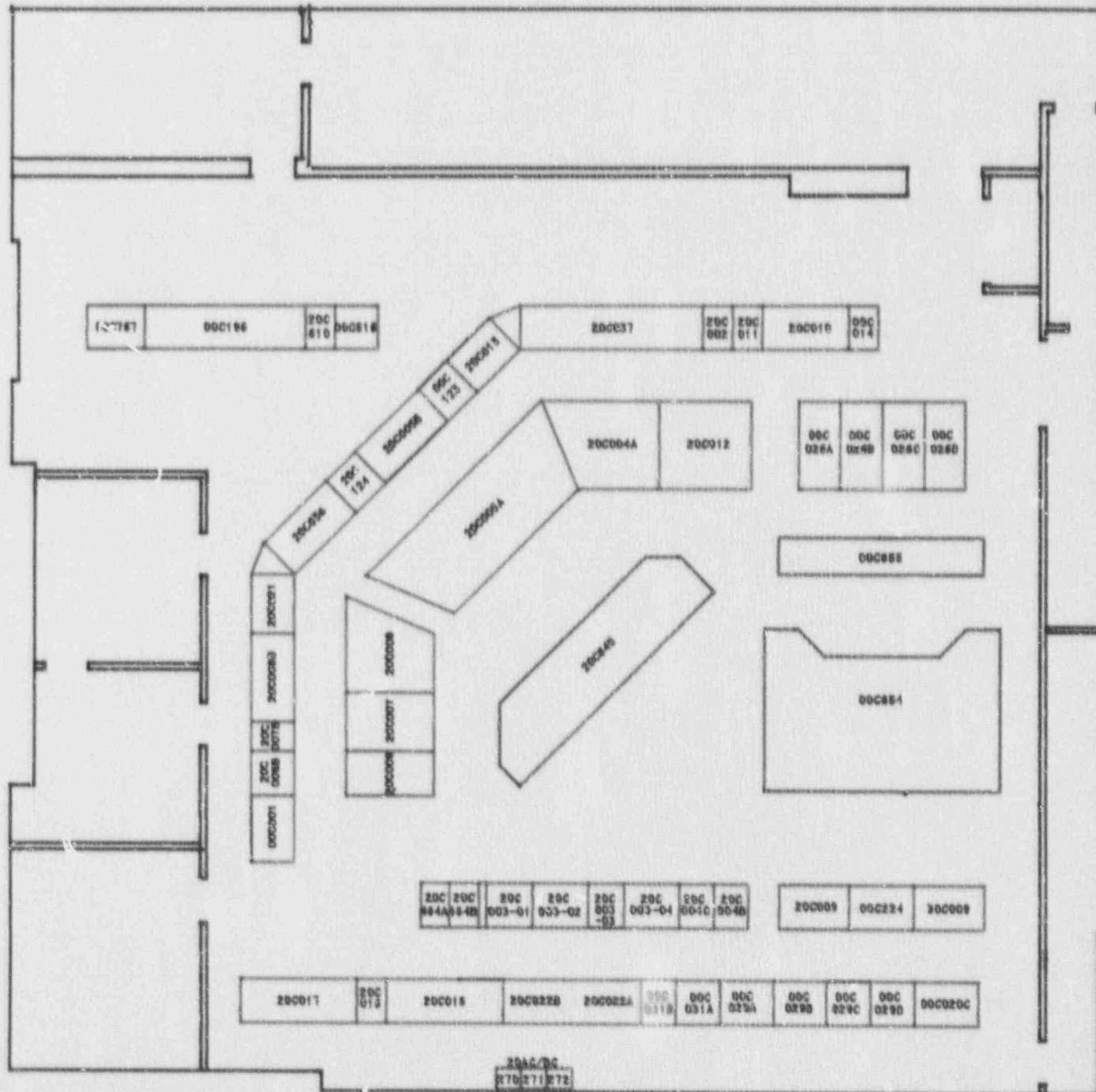
- E. In the REMOTE FUNCTIONS VALIDATION Report, the TRIP OVERRIDE VALIDATION Report, and the SIMULATOR PERFORMANCE TESTS Report, the Performance test failures are identified and listed at the end of each Report, and include the assigned CMS SDR Work Order number(s) and associated priority (see Section VI). These Work Orders and priorities represent the proposed resolution and schedule for correction of the test failures.

V. SIMULATOR CONFIGURATION MANAGEMENT SYSTEM

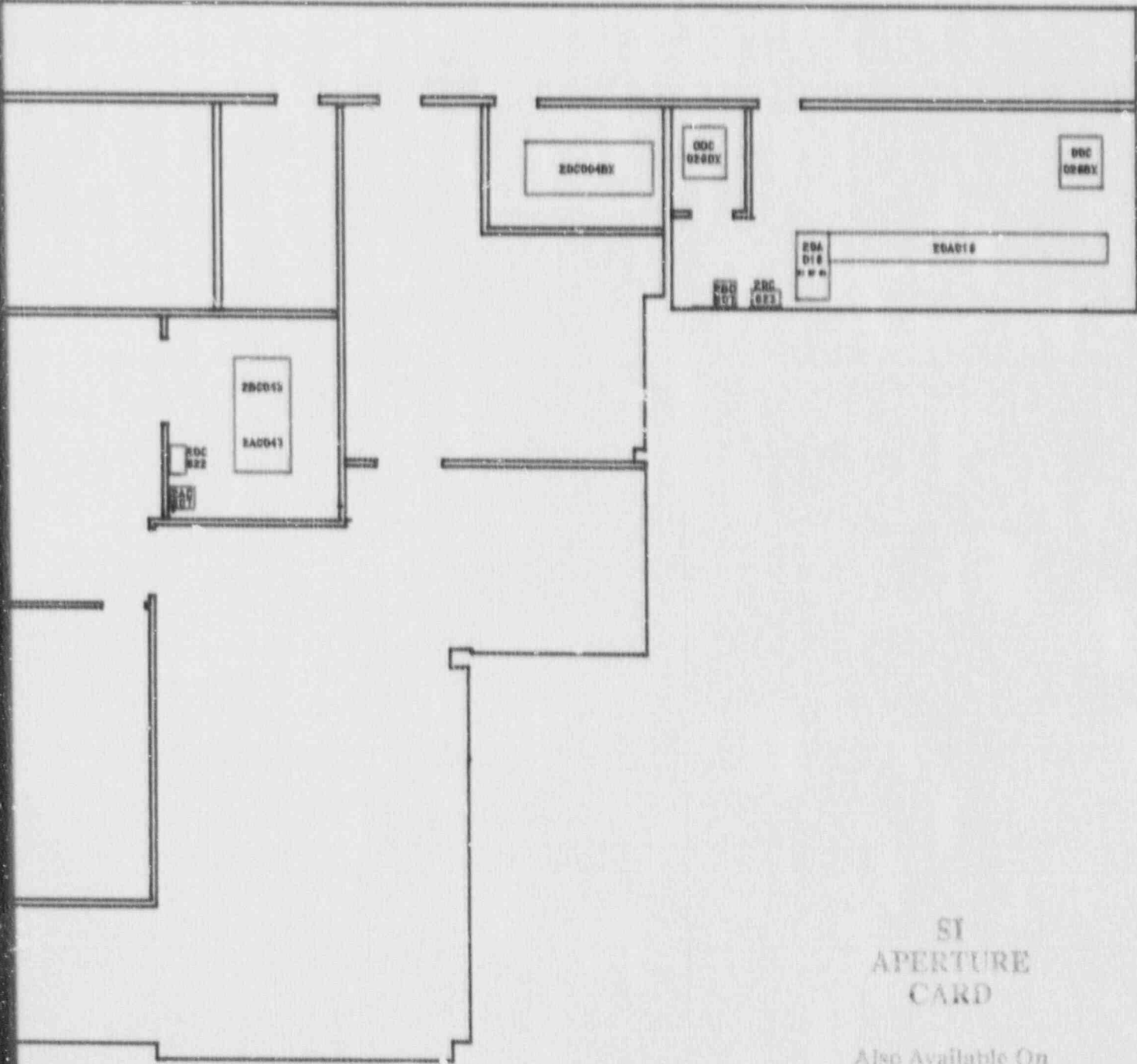
The Simulator Configuration Management System is controlled by the attached PBAPS Training Department Procedure, TP - 162. This procedure provides the methods of identifying, tracking, scheduling, correcting, and testing of simulator discrepancies and Reference Unit design changes.

VI. LIST OF REPORTS ACCOMPANYING THIS EXHIBIT

- A. PBAPS Control Room/Simulator Drawings
- B. PBAPS Unit 2/Simulator Control Room Physical Differences
- C. PBAPS Systems Simulated
- D. Protected Initialization Conditions
- E. Remote Functions Validation
- F. Trip Overrides Validation
- G. Modifications
- H. Simulator Performance Tests
- I. Simulator Performance Test Schedule
- J. Test Differences
- K. Configuration Management System
- L. Malfunction Cause and Effect Sheets (Separate Binder)
- M. Simulator Design Database (Separate Binder)



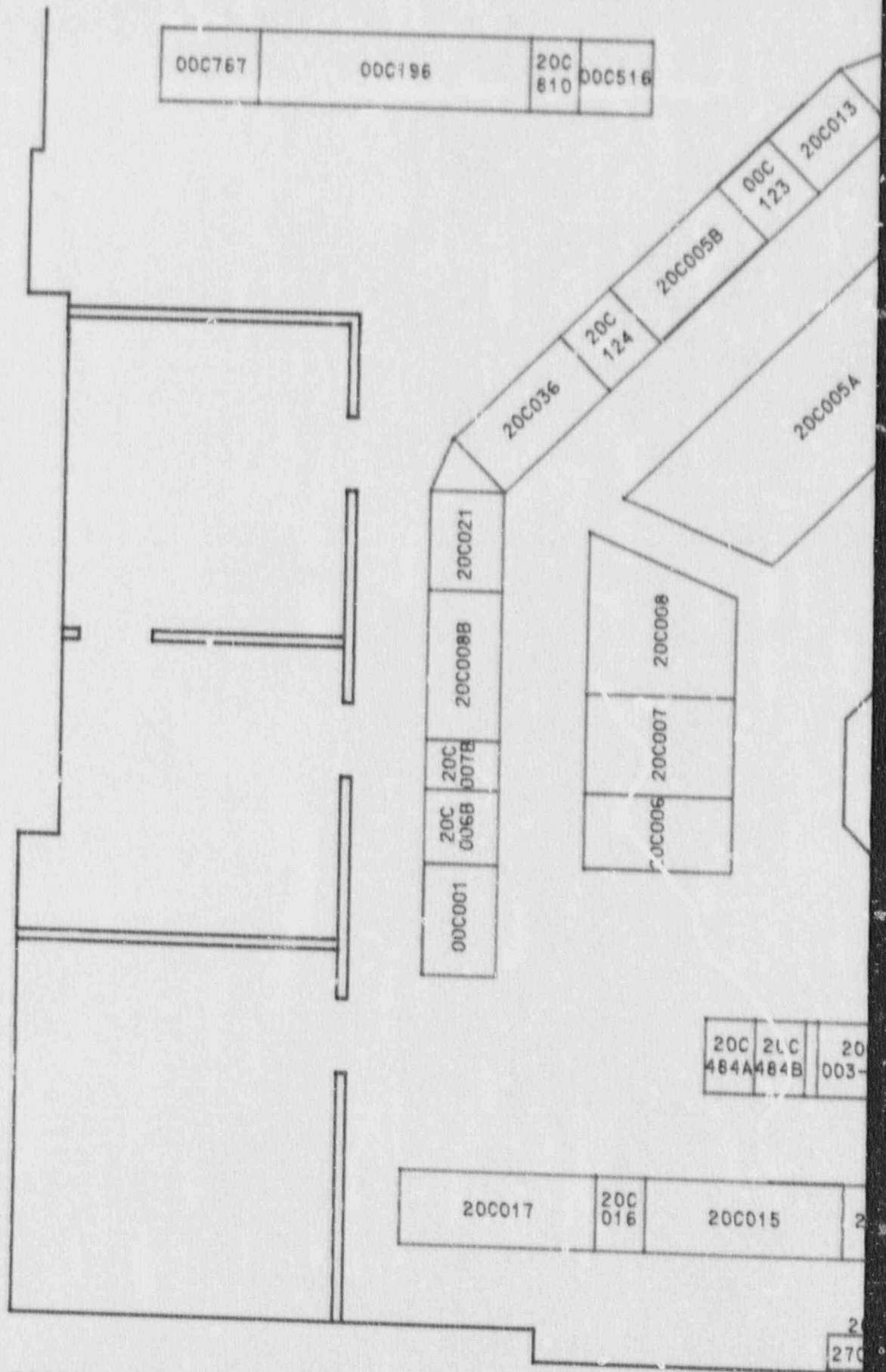
SIMULATOR FACILITY CONTROL PANEL ARRANGEMENT



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20C037	20C 002	20C 011	20C010	00C 014
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20C004A	20C012
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00C 026A	00C 026B	00C 026C	00C 026D
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00C855

20C845

00C854

20C 003-02	20C 003 -03	20C 003-04	20C 004C	20C 004B
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20C009	00C224	30C009
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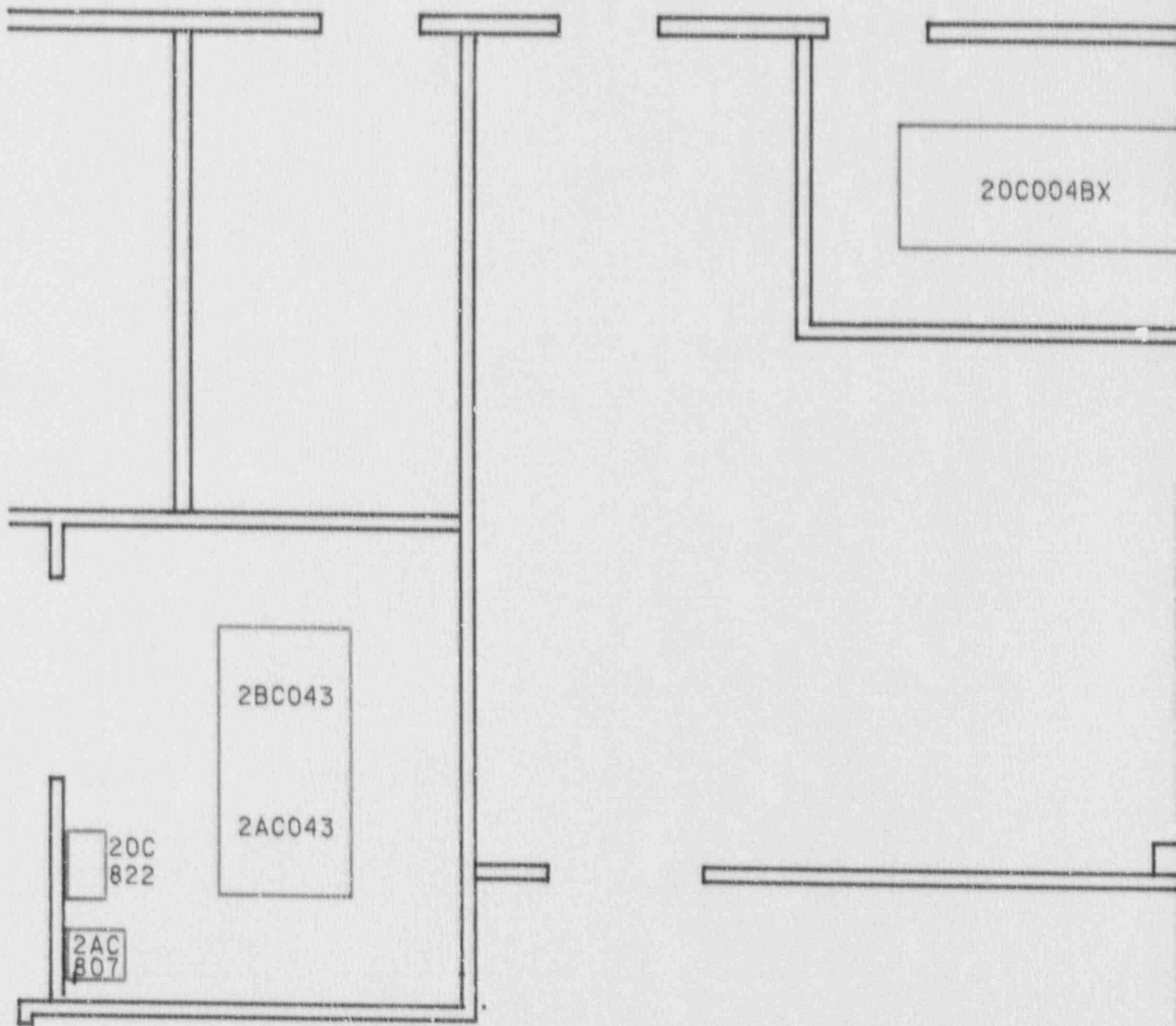
00C022B	20C022A	00C 031B	00C 031A	00C 029A	00C 029B	00C 029C	00C 029D	00C020C
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AC/BC
271/272

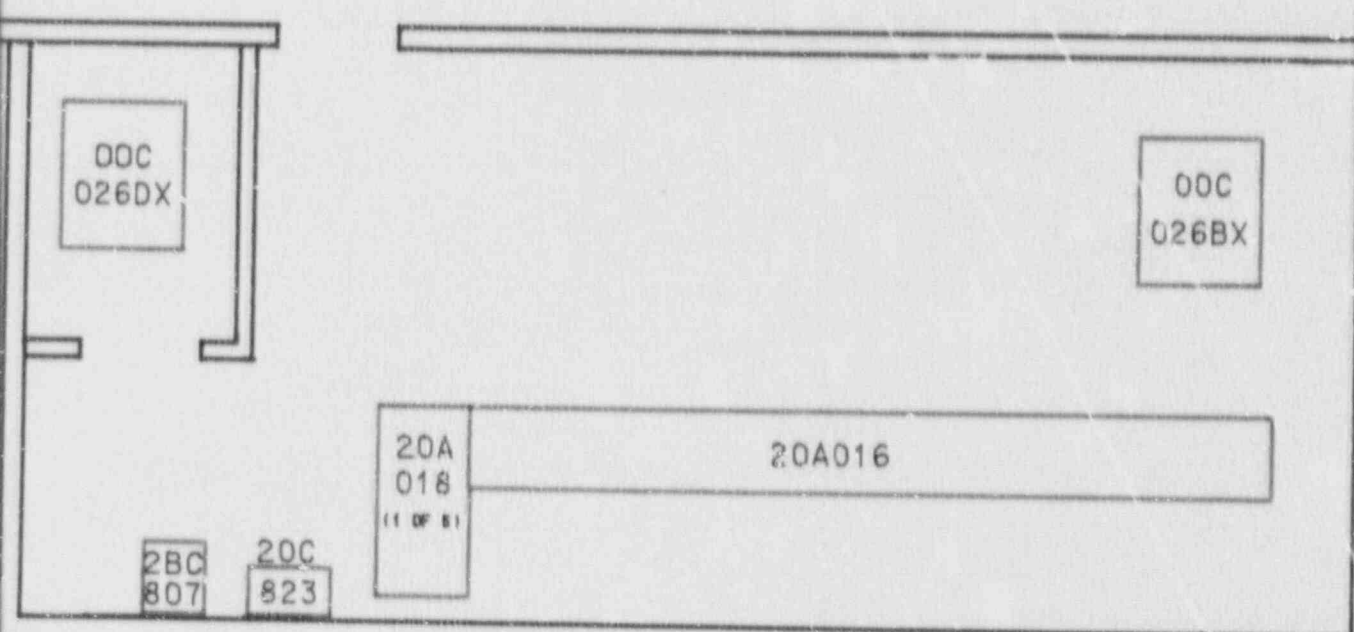
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PEACH BOTTOM ATOMIC POWER STATION UNIT 2/
SIMULATOR CONTROL PANEL PHYSICAL DIFFERENCES

DIFFERENCES BASED ON COMPARISON
WITH PLANT PHOTOGRAPHS TAKEN IN
NOVEMBER, 1990

A comparison of the Simulator and PBAPS Unit 2 Control panels has been conducted. The differences identified by the comparison are detailed below. Unless otherwise noted in the details, the comparison was based on photograph of the Unit 2 Control panels taken on the date shown above. The identified differences have been evaluated for the impact of using the Simulator for training and examinations of operators according to the following criteria:

NONE or NO	(N)	- the difference is negligible and will have no impact on simulator training or simulator examinations.
SLIGHT	(S)	- the difference is little; and is such that it is not likely to cause an operator error and any errors caused are readily recoverable.
MODERATE	(M)	- the difference is little; and is of a magnitude that operator disorientation and error are possible, but that unrecoverable errors are unlikely.
LARGE	(L)	- the difference is large and is likely to cause operator disorientation and can easily lead to unrecoverable errors.

In addition to the specific differences tabulated below, the following general items were identified as differences during the verification effort. These differences represent dimensional deviations from the configuration of equipment in Unit 2 that do not impact on actions to be taken by an operator.

- The engraving on small size lamacoids for instrument identification that represent the letter I appear as a single vertical line in Unit 2; in most cases these are engraved as an I in the Simulator.
- The red illuminated pushbutton switches (Micro-Switch Type IC113-2), used mostly for MOV controls, have a white base and silver mounting nut in the Simulator instead of being all red with a black mounting nut in Unit 2, and are slightly longer in the Simulator.
- The red and green position indicating lights for valve and breaker indication are mounted slightly closer together in the Simulator than on the Unit 2 Control Panels, thus the red and green (normal position) enhancement dots in the Simulator must be of slight smaller diameter.
- The Annunciator lettering in the Simulator is not all the same size as on the Unit 2 Annunciator windows; all lettering is of readable size, and if differences in wording exist, they are tabulated below.
- The relays on relay panels 00C029A through 00C029D, 00C031A & B, and 20C022A & B have the same size, shape, color, and have the same trip and reset indicators as those on the Unit 2 Control panels; however, the most of the relays on the Simulator panels do not have the same internal appearance.
- The Simulator control panels are painted a slightly darker shade of the same color that the Unit 2 control panels are painted.
- Components that have been removed from the Unit 2 Control Panels are replaced with blank plates inserted flush with the panel, filled, sanded, and painted. Components that have been removed from the Simulator Control Panels have been treated in the same manner in most cases; however, a few items have been blanked by attaching a cover plate that fits over the opening and is not flush with the panel.

NOTE:

MOD 09551, Control Room Consoles and Displays, is currently being installed on the Simulator. This MOD adds new operators consoles and displays, as well as new panel displays. This MOD has been installed on Unit 3, and is scheduled for installation in Unit 2 during the 1991 Refueling Outage. Comparisons of the Unit 2 consoles and displays added by this MOD will be evaluated when Unit 2 installation is complete.

PANEL NUMBER	COMPONENT ID NUMBER	COMPONENT DESCRIPTION	DESCRIPTION OF DIFFERENCE	DATE VERIFIED	TRAINING IMPACT	ASSIGNED V.O. NUM.
00C014	N/A	ARMS	GE LOGO MISSING ON ALL ARMS AND ARM POWER SUPPLIES (NOT MADE BY GENERAL ELECTRIC FOR SIMULATOR)	01/09/91	N	N/A
00C020C	N/A	CLOCK	DIFFERENT TYPE OF CLOCK	12/22/90	N	N/A
00C020C	N/A	AC & DC TEST FEEDS	OMITTED ON SIMULATOR	12/22/90	N	N/A
00C020C	N/A	COVER PLATE	BLANK COVER PLATE IN MCR REPLACED WITH PHONE JACK ON SIMULATOR (AID HARDWARE TESTING)	12/22/90	N	N/A
00C024	N/A	MICROPHONE	INSTALLED ON SIMULATOR TO AID INSTRUCTORS	01/09/91	N	N/A
00C024	N/A	HANDLE HOLDER	MOUNTED TO LEFT OF SEAM ON SIMULATOR AND PAINTED	01/09/91	N	N/A
00C024	N/A	AC AMMETERS	LINEAR IN SIMULATOR, NONLINEAR IN MCR	01/09/91	S	N/A
00C026B	N/A	MICROPHONE	INSTALLED ON SIMULATOR TO AID INSTRUCTORS	01/09/91	N	N/A
00C196	FIC-6111	FISHER CONTROLLER	NOT IDENTICAL TO ONE IN MCR	01/10/91	S	N/A
00C767	N/A	CLIMATRONICS UNIT	1ST UNIT REAL AND REMAINING 5 BLANK IN MCR. ALL UNITS REAL ON SIMULATOR.	01/10/91	S	N/A
00C767	N/A	TOWER 2 RECORDER	SAME RECORDER BUT MAN. LOGO DIFFERENT MCR: "BENDIX FRIEZ 141 OVAL RECORDER" SIM: "SELFORT 141 WIND RECORDER"	01/10/91	N	N/A
20A016	N/A	PANELS	SIM: PANELS PAINTED GREEN PLANT: PANELS ARE GREY	01/10/91	N	N/A
20A016	N/A	DOOR HANDLES	DIFFERENT STYLE DOOR HANDLES	01/10/91	N	N/A
20A016	1601 127Y	RELAY	DIFFERENT STYLE RELAY	01/10/91	N	N/A
20A016	1605	BREAKER	GE LOGO MISSING	01/10/91	N	N/A
20A016	1608 127Y	RELAY	DIFFERENT STYLE RELAY	01/10/91	N	N/A
20A016	N/A	B CRD BREAKER	REAL BREAKER ADDED TO END OF 20A016 BUS ROOM BREAKERS IN SIMULATOR	01/10/91	N	N/A
20C002	N/A	RIVER WATER TEMP MONITOR	SIMULATOR HAS DIFFERENT STYLE RECORDER	01/09/91	N	N/A
20C003-02	N/A	MICROPHONE	INSTALLED ON SIMULATOR TO AID INSTRUCTORS	01/09/91	N	N/A

PANEL NUMBER	COMPONENT ID NUMBER	COMPONENT DESCRIPTION	DESCRIPTION OF DIFFERENCE	DATE VERIFIED	TRAINING IMPACT	ASSIGNED W.O. NUM.
20C004A	N/A	MICROPHONE	INSTALLED ON SIMULATOR TO AID INSTRUCTORS	01/09/91	N	N/A
20C004A	N/A	METERS	SEVERAL METER SCALES IN MCR ARE CUSTOM MADE. SIMULATOR HAS LINEAR SCALES.	01/09/91	N	N/A
20C004BX	N/A	HPCI TRANSFER SWITCHES	SIM: LABEL READS "EMERGENCY" PLANT: LABEL READS "EMERG"	01/10/91	N	N/A
20C004BX	N/A	RHR TRANSFER SWITCHES	SIM: LABEL READS "EMERGENCY" PLANT: LABEL READS "EMERG"	01/10/91	N	N/A
20C004BX	N/A	DC AND AC CIRCUIT BREAKERS	MANUFACTURER'S INFO TAGS MISSING ON SIMULATOR	01/10/91	N	N/A
20C004BX		HPCI LEVEL INDICATOR	LEVEL INDICATOR DOES NOT HAVE A YELLOW BAND IN ACCORDANCE WITH SE-10	01/09/91	S	890394
20C005A	N/A	MICROPHONE	INSTALLED ON SIMULATOR TO AID INSTRUCTORS	01/09/91	N	N/A
20C005A	CV-2558	FOXBORO CONTROLLER	NOT IDENTICAL TO PLANTS, NOT BALANCE POSITION (DIGITAL FEEDWATER MOD WILL REPLACE).	01/09/91	N	900443
20C005A	N/A	GE CONTROLLERS	GENERAL ELECTRIC LOGO MISSING ON SIMULATOR (NOT MADE BY GE)	01/09/91	N	N/A
20C005A	N/A	RANGE SWITCHES	SIM. GE LOGO MISSING	01/09/91	H	N/A
20C005A	5A-S1	MODE SWITCH	REACTOR MODE SWITCH HANDLE IS SLIGHTLY DIFFERENT, FUNCTIONALLY THE SAME.	01/09/91	N	N/A
20C005A		FEEDWATER CONTROL N/A STATIONS	RED DOT ON DEVIATION METERS IS MISSING	01/09/91	S	900074
20C005A		WIDE RANGE LEVEL INDICATORS	WIDE RANGE LEVEL INDICATORS SHOULD HAVE RED NUMBERS AND HASHMARKS BELOW -130" INSTEAD OF RED BAND	01/09/91	S	900242
20C006B	N/A	MICROPHONE	INSTALLED ON SIMULATOR TO AID INSTRUCTORS	01/09/91	N	N/A
20C007A	N/A	MICROPHONE	INSTALLED ON SIMULATOR TO AID INSTRUCTORS	01/09/91	N	N/A
20C008B	TR-2400	GENERATOR TEMPERATURE RECORDER	SCALE SHOULD BE LOG VICE LINEAR	01/09/91	N	900259
20C009	N/A	MICROPHONE	INSTALLED ON SIMULATOR TO AID INSTRUCTORS	01/09/91	N	N/A

PANEL NUMBER	COMPONENT ID NUMBER	COMPONENT DESCRIPTION	DESCRIPTION OF DIFFERENCE	DATE VERIFIED	TRAINING IMPACT	ASSIGNED W.O. NUM.
20C009	N/A	METERS	SEVERAL METER SCALES IN MCR CUSTOM MADE. LINEAR SCALES ON SIMULATOR.	01/09/91	S	N/A
20C009	LAMP COVER	MAIN GEN. AMP RANGE SELECTION	GREEN LAMP COVER SHOULD BE CLEAR, WITH A RED BULB	01/09/91	S	900098
20C010	N/A	ARMS	GE LOGO MISSING ON ALL ARMS AND ARM POWER SUPPLIES (NOT MADE BY GENERAL ELECTRIC FOR SIMULATOR)	01/09/91	N	N/A
20C010	N/A	MICROPHONE	INSTALLED ON SIMULATOR TO AID INSTRUCTORS	01/09/91	N	N/A
20C010	FIC-0760A	FISHER CONTROLLER	SIMULATOR CONTROLLER NOT IDENTICAL TO MCR CONTROLLER	01/09/91	S	N/A
20C010	FIC-2929A	FISHER CONTROLLER	SIMULATOR CONTROLLER NOT IDENTICAL TO MCR CONTROLLER	01/09/91	S	N/A
20C010	FIC-0760B	FISHER CONTROLLER	SIMULATOR CONTROLLER NOT IDENTICAL TO MCR CONTROLLER	01/09/91	S	N/A
20C010	FIC-2929B	FISHER CONTROLLER	SIMULATOR CONTROLLER NOT IDENTICAL TO MCR CONTROLLER	01/09/91	S	N/A
20C010	FR-0470	FLOW RECORDER	MAIN STACK FLOW RECORDER LOCATED ON 20C010 IN SIMULATOR. IN MCR RECORDER IS LOCATED ON 30C010.	01/09/91	S	N/A
20C010	R18-8394	RAD. IND. SWITCH	NOT INSTALLED IN SIM.; OG TIMER IN SIM. NOT IN PLANT	01/09/91	M	890113
20C010	AO-8416	POSIT. IND. LIGHTS	NOT INSTALLED IN SIM.	01/09/91	M	890113
20C011	N/A	ARMS	GE LOGO MISSING ON ALL ARMS AND ARM POWER SUPPLIES (NOT MADE BY GE FOR SIMULATOR)	01/09/91	N	N/A
20C012	N/A	MICROPHONE	INSTALLED ON SIMULATOR TO AID INSTRUCTORS	01/09/91	N	N/A
20C012	N/A	SWITCHES	SEPERATION OF SWITCHES ON SIMULATOR NOT IDENTICAL TO MCR	01/09/91	N	N/A
20C012	T12501	PLANT TEMPERATURE DIGITAL READOUT	"DORIC" MISSING ON SIMULATOR RECORDER	01/09/91	N	N/A
20C012	OAK-300	SB AIR COMP. CONTROL	MISSING IN SIM. (MOD 1795 WILL INSTALL)	01/09/91	M	910025
20C012	SV-7017A	SB A.C. DISCHARGE	MISSING IN SIM. (MOD 1795 WILL INSTALL)	01/09/91	M	910025

PANEL NUMBER	COMPONENT ID NUMBER	COMPONENT DESCRIPTION	DESCRIPTION OF DIFFERENCE	DATE VERIFIED	TRAINING IMPACT	ASSIGNED W.O. NUM.
20C037	N/A	APRM/LPRM STATUS LIGHTS	ALIGNED DIFFERENTLY THAN IN MCR	01/09/91	N	N/A
20C037	N/A	MICROPHONE	INSTALLED IN SIMULATOR TO AID INSTRUCTORS	01/09/91	N	N/A
20C22A	552Y-1	RELAY	SIMULATOR RELAY IS MOUNTED TOO LOW ON PANEL-LAMACOID IS ABOVE RELAY	12/21/90	S	N/A
2AC/BC270-272	N/A	TRIP CARDS	LOGO AND MODEL # NOT ON FACEPLATES OF CARDS IN SIMULATOR	12/22/90	N	N/A
2AC/BC270-272	N/A	DOORS	DIFFERENT NUMBER AND PLACEMENT OF DOOR LATCHES AND LOCK ON SIMULATOR	12/22/90	N	N/A
2AC/BC270-272	N/A	METERS	"MFC" LOGO MISSING ON MODEL 180 SCALES	12/22/90	S	N/A
30C009	N/A	METERS	SEVERAL METER SCALES IN MCR WERE CUSTOM MADE. SIMULATOR HAS STANDARD SCALES	01/09/91	S	N/A

PBAPS UNIT 2 SIMULATOR
SYSTEMS SIMULATED

The following is a complete list of the PBAPS Unit 2 & 3 systems listed from the System Operating Procedures, cross referenced to the systems simulated on the Unit 2 Simulator and identified by Singer ID.

PBAPS System ID -----	Singer ID -----	System Description -----
1A	MS	Main Steam
1B	MS	Turbine
1D	TC	Electrohydraulic Control (EHC)
1E	MS	Turbine Extraction Steam
1F	TU	Turbine Lube Oil
1G	AD	Automatic Depressurization System/
	MS	Safety Relief Valves
1H	MS	Turbine Seal Oil
2	RX	Reactor & Recirculation
	RR	
2A	RR	Recirculation Pump & Valves
2C	RR	Recirculation Motor-Generator Lube Oil
2D	RR	Recirculation Motor-Generator
3	RD	Control Rod Drive (CRD)
5	FW	Condensate
5A	FW	Condensate Demineralizers, Precoat and Backwash System
6	FW	Feedwater
6B	FW	Feedpump Turbine Lube Oil
6C	FW	Feedpump
6D	FW	Feedpump Turbine
7	PC	Primary Containment
7B	PC	Containment Atmosphere Control (CAC)

PBAPS System ID	Singer ID	System Description
-----	-----	-----
7C	PC	Containment Atmosphere Dilution (CAD)
7D	PC	Drywell & Torus Oxygen Sampling (CAC)
7E	PC	Drywell & Torus Oxygen Sampling (CAC)
8	OG	Off-Gas & Recombiner
8A	OG	Steam Jet Air Ejectors (SJAE)
8B	OG	Recombiner
8C	OG	Hydrogen Analyzers
8E	OG	Mechanical Vacuum Pump
8F	OG	Steam Packing Exhauster (SPE)
8G	OG	Glycol System
9A	PC	Standby Gas Treatment (SGBT)
10	RH	Residual Heat Removal (RHR)
11	SL	Standby Liquid Control (SBLC)
12	CU	Reactor Water Cleanup (RWCU)
12A	CU	RWCU Demineralizers, Precoat and Backwash Systems
13	RC	Reactor Core Isolation Cooling (RCIC)
13B	RC	RCIC Pump
14	CS	Core Spray
14A	CS	Torus Water Cleanup
15	HC	Hydrogen Water Chemistry
16	IA	Instrument Nitrogen System
16A	IA	Backup Instrument Nitrogen to ADS
16B	IA	Backup Seismic Instrument Nitrogen
18	NOT SIMULATED	Fuel Handling
19	PC	Fuel Pool Cooling

PBAPS System ID -----	Singer ID -----	System Description -----
19A	NOT SIMULATED	Fuel Pool Cooling Demineralizers, Precoat and Backwash System
20A	PC LD	Floor Drain Collection
20C	PC LD	Liquid Process & Disposal
20D	NOT SIMULATED	Solid Process & Disposal
23	HP	High Pressure Coolant Injection (HPCI)
24	MS	Auxiliary Steam
25A	NOT SIMULATED	Sewage Collection
25B	NOT SIMULATED	Sewage Processing
27	FW	Condensate Transfer and Storage
28A	MC	Circulating Water
28B	MC	Cooling Towers
28C	NOT SIMULATED	Circulating Water Sampling
28D	FW	Low Pressure Lube Water
29	NOT SIMULATED	Traveling Water Screens
29G	NOT SIMULATED	Deicing Air
29H	NOT SIMULATED	Trash Rake
30	SW	Service Water
30B	FW	High Pressure Lube Water
32	SW	High Pressure Service Water (HPSW)
33	SW	Emergency Service Water (ESW)
34	SW	Turbine Building Closed Cooling Water (TBCW)
35	SW	Reactor Building Closed Cooling Water (RBCW)
36A	IA	Service Air
36B	IA	Instrument Air
36C	NOT SIMULATED	Low Pressure Air

PBAPS System ID	Singer ID	System Description
-----	-----	-----
36D	IA	Standby Service Air (JOY Compressor)
36E	NOT SIMULATED	Breathing Air
36F	NOT SIMULATED	Radwaste Air
36G	NOT SIMULATED	Condensate Demin Air Surge Backwash
36J	NOT SIMULATED	Administration Building Compressed Air
38A	NOT SIMULATED	Raw Water System
38B	NOT SIMULATED	Domestic Water System
38C	FW	Makeup Water System
38D	FW	Demineralized Water Distribution System
40A	HV	Turbine Building Ventilation
40B	PC	Reactor Building Ventilation
40C	PC	Drywell Ventilation
40D	HV	Control Room Ventilation
40K	NOT SIMULATED	Recombiner Building Ventilation
40L	NOT SIMULATED	Radwaste Building Ventilation
40M	NOT SIMULATED	Recirculation Motor Generator Set Ventilation
40P	NOT SIMULATED	Unit #1 Ventilation
44A	PC	Drywell Chilled Water
44B	NOT SIMULATED	Control Room Chilled Water
45	NOT SIMULATED	Security Systems, Lighting & Door Locks
46	NOT SIMULATED	Hypochlorite
48	SW	Emergency Cooling Water & Tower
50	EG	Main Generators
50A	EG	Stator Water Cooling
50B	EG	Hydrogen Seal Oil

PBAPS System ID	Singer ID	System Description
-----	-----	-----
50C	EG	Hydrogen and Carbon Dioxide
50D	EG	Isophase Bus Cooling
50G	EG	Alterex
51	NOT SIMULATED	Substations and Transmission
52A	DG	Diesel Engine
52B	DG	Diesel Generator & Controls
52C	DG	Diesel Starting Air
52D	DG	Diesel Fuel Oil
52E	DG	Diesel Jacket Cooling
52G	DG	Diesel Lube Oil
52J	NOT SIMULATED	Unit #1 Diesel Generator and Controls
53	ED	13 KV Electrical System
54	ED	4 KV Electrical System
55	ED	480 Volt Load Centers
55E	ED	480 Volt Emergency Load Centers
56	ED	480 Volt Motor Control Centers
56A	ED	480 Volt Lighting Load Centers
56E	ED	480 Volt Emergency MCC's
57A	ED	250 VDC
57B	ED	125/250 VDC
57C	ED	24/48 VDC
57D	NOT SIMULATED	Cardox 125 VDC
57E	ED	Emergency Lighting DC Systems (Static Inverters)
57F	NOT SIMULATED	Cathodic Protection
57G	ED	D&E Cooling Tower 125 VDC

PBAPS System ID	Singer ID	System Description
-----	-----	-----
58A	ED	Vital AC
58B	ED	Uninterruptible AC (Static Inverter & Static Switch)
58C	ED	Normal 120/208 VAC
58D	ED	Emergency 120 VAC Lighting
59A	YC	High Speed Process Computer
60A	NM	APRM & LPRM Instrumentation
60E	NM	Traversing In-Core Probe (TIP) Instrumentation & Indexer
60F	RP	Reactor Protection System (RPS) Instrumentation & Logic System
62	RD	Reactor Manual Control (RMC)
62A	RD	Rod Worth Minimizer (RWM)
62B	RD	Rod Sequence Control (RSCS)
62C	RD	Rod Position Indication (RPIS)
63B	RM	Off Gas Radiation Monitoring
63D	RM	Drywell High Range Radiation Monitoring
63E	RM	Vent Stack Radiation Monitoring
63F	RM	Main Stack Radiation Monitoring
63H	RM	High Pressure Service Water (HPSW) Radiation Monitoring
63L	RM	Control Room Radiation Monitoring
63M	RM	Radwaste Radiation Monitoring
63N	RM	Recombiner Ventilation Exhaust Radiation Monitoring
94E	NOT SIMULATED	Seismic Monitoring
94F	PC	Suppression Pool Temperature Monitoring

PBAPS UNIT 2 SIMULATOR PROTECTED
INITIALIZATION CONDITIONS

DATE: 01/31/91

IC NO.	TITLE	REACTOR POWER (%)	REACTOR TEMP. (deg F)	REACTOR PRESS. (psia)	CORE FLOW (%)	XENON (%)	CORE LIFE

1	SYSTEMS STARTUP	0.0	106.5	14.8	8.6	0.0	BOL
2	COLD STARTUP	0.0	171.4	14.6	24.8	0.1	MOL
3	COLD STARTUP	0.0	176.7	14.6	24.8	0.1	MOL
4	COLD STARTUP	0.0	178.0	14.5	24.9	0.1	EOL
5	HOT STARTUP	0.0	489.4	618.0	29.9	1.3	MOL
6	HOT STARTUP	0.0	479.5	560.9	30.1	145.2	MOL
7	REACTOR HEATUP	0.4	335.4	111.0	30.5	0.5	MOL
8	REACTOR FEED PUMP START	5.0	458.8	461.3	36.9	1.4	MOL
9	REACTOR APPROACH TO RUN	7.3	536.3	933.6	39.4	2.2	MOL
10	COLD TURBINE START	10.3	536.5	935.7	41.7	4.1	MOL
11	HOT TURBINE START	20.8	532.2	940.6	44.2	11.6	MOL
12	TURBINE SYNCH'ED	20.9	535.9	930.5	44.0	19.9	BOL
13	50% POWER	49.7	538.3	949.2	46.1	74.9	BOL
14	100% POWER - TARGET ROD PATTERN	98.7	546.3	1014.1	99.5	95.9	MOL
15	EOL FULL POWER COASTDOWN	77.3	542.7	984.5	110.5	85.7	EOL
16	POWER LEVEL DECREASE FROM 100%	28.7	537.2	940.7	47.4	128.7	MOL
17	SHUTDOWN COOLING	0.0	317.7	86.6	30.0	148.2	MOL
18	TURBINE SYNC	19.6	536.0	931.4	44.0	15.1	BOL
19	WARM TURBINE S/U	8.3	536.3	933.9	40.3	4.1	MOL
20	75% POWER - TARGET ROD PATTERN	75.5	542.2	980.5	61.2	99.9	MOL

NOTE: The exact parameters values will differ as new training loads are implemented which require these Protected IC's to be reshot.

PEACH BOTTOM ATOMIC POWER STATION UNIT 2
SIMULATOR
REMOTE FUNCTIONS VALIDATION

The Remote Functions for the Simulator are validated during the performance of the Simulator Performance Tests where possible. Those not validated during Performance Tests are validated separately. The listing below lists the Remote Functions that have been tested, the Performance Test where applicable, and the results. The Acceptance Criteria for testing Remote Functions is:

- 1) The proper response is provided to the operator (i.e., control board indications and annunciators occur per the procedure being performed, logic circuits are satisfied in accordance with current Simulator Configuration, etc.).
- 2) The steps of the procedure being performed that are dependent on the correct performance of the Remote Function can be completed and operation in the procedure can continue.

Those Remote Functions that are found Unsatisfactory when judged against these criteria are listed at the end of this report; the assigned CMS Work Order Number and Priority are included.

Page No. 1

01/29/91

SYSTEM ID	REMOTE FUNCTION NUMBER	REMOTE FUNCTION TITLE	PERFORMANCE TEST USED FOR REMOTE FUNCTION VALIDATION	RESULTS OF TEST	WORK ORDER NUMBER-PRIORITY
AD	ADS01	SV-8130A/B BYPASS /CR BACKUP N2	SSPT-AO 16.A.1-2	S	
AN	ANR01	ANNUNCIATOR AUTO/MANUAL SELECT	SSPT-RT 9.13.1	S	
CS	CSS01	CS PUMPS 2A/B/C/D CST SUCTION VALVES 8A/B/C/D	SSPT-SO 14.1.A-2	S	
CS	CSS02	33A/B; 35A/B VLVS ON FILL-UP LINES FROM COND SERV	SSPT-SO 14.1.A-2	S	
CS	CSS03	N2 PRESSURIZING; DEPRESSURIZING SYSTEM TO LOOPS	SSPT-ST 6.6.1, 6.7.1	S	
CS	CSS04	MANUAL IN & OUT VLVS TO TORUS WTR MAKEUP FCV-407G	SSPT-SO 14A.1.A-2	S	
CS	CSS05	SYS 1/II CORE SPRAY INJ VLVS OVERCURRENT RESET	SSPT-W/A	S	
CS	T2323	TORUS WTR FILTER PUMP DISCHARGE TO CONDENSER	SSPT-T-232	S	
CS	T2324	TORUS WTR FLT. PUMP DISCH TO RADWASTE	SSPT-T-232	S	
CU	RWC01	CU F/D UNIT IN/OUT OF SERVICE	SSPT-SO 12.1.A-2	S	
CU	RWC02	CU F/D UNIT 2AF10/2BF10 REGENERATE RESIN	SSPT-SO 12A.1.A-2	S	
CU	RWC03	CU F/D CNTRL VLV SETPOINT ADJUSTMENT	SSPT-SO 12.1.A-2	S	
CU	RWC04	CU DUMP LINE TO WASTE TANKS VALVE OR CST VALVE	SSPT-SO 12.1.A-2	S	

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CU	RWC05	CU VLV TO WASTE TANKS AO-20-104	SSPT-SO 12.1.A-2	S	
CU	RWC06	CU MAIN COND DUMP CNTRL VLV SETPOINT ADJUSTMENT	SSPT-SO 12.1.A-2	S	
CU	RWC07	NRHX 2AE29 OR 2BE29 IN & OUT VLVS	SSPT-SO 12.6.A-2	S	
CU	RWC08	CU PUMPS A,B,CP49 HI/LO FLOW ALARMS RESET	SSPT-SO 12.2.A-2	S	
DG	DGA01	E1-4 ENGINE LOCKOUT RESETS (4)	SSPT-SO 52A.1.A	S	
DG	DGA02	DROOP SETTING (4)	SSPT-ST 8.1	S	
DG	DGA04	E42 BRKR CONTROL TRANSFER	SSPT-SE-11	S	
DG	DGA05	E42 BRKR ASD CONTROL	SSPT-SE-11	S	
DG	DGA07	DG A/B/C/D LOCAL/REMOTE START SWITCH	SSPT-N/A	S	
ED	CS506	CORE SPRAY PUMP A/C/D CONTROL POWER FUSE	SSPT-SE-11	S	
ED	E12UV	BUS E12 98% RELAY LOCA RESET	SSPT-SO 54.7.H	S	
ED	E212UV	UV TRIP POWER FUSE	SSPT-AO 52B.1	S	
ED	E32UV	BUS E32 98% RELAY LOCA RESET	SSPT-SO 54.7.H	S	
ED	E42UV	BUS E42 98% RELAY LOCA RESET	SSPT-SO 54.7.H	S	
ED	HPC06	HPSW PUMP A/C/D CONTROL POWER FUSE	SSPT-SE 11	S	
ED	MAP01	UNIT 3 GENERATOR STATUS	SSPT-N/A	S	
ED	MAP02	UNIT 2 GENERATOR DISCONNECT	SSPT-GP-2	S	
ED	MAP03	GRID VOLTAGE VARIATION	SSPT-N/A	S	
ED	MAP04	GRID FREQUENCY VARIATION	SSPT-N/A	S	
ED	RHR14	RHR PUMP A/C/D CONTROL POWER FUSE	SSPT-SE-11	S	
ED	VAC01	MANUAL BYPASS STATIC INVERTER SWITCH	SSPT-SO 58B.1.A	S	
ED	VAC02	MANUAL TRANSFER STATIC INVERTER SWITCH	SSPT-SO 58B.1.A	S	
ED	VAC04	186BX/Y LOCKOUT RELAY RESET FOR 4KV EMERG BUS E12	SSPT-MAP 07A	S	
ED	VAC05	186BX/Y LOCKOUT RELAY RESET FOR 4KV EMERG BUS E32	SSPT-MAP 07C	S	

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ED	VAC06	186BX/Y LOCKOUT RELAY RESET FOR 4KV EMERG BUS E42	SSPT-MAP 07D	S	
ED	VAC07	BATT CHGR 28D03 POWER SOURCE TRANSFER SWITCH	SSPT-GP-2	S	
ED	VAC08	BATT CHGR 2DD03 POWER SOURCE TRANSFER SWITCH	SSPT-GP-2	S	
ED	VAC09	186BX/Y LOCKOUT RELAY RESET FOR 4KV EMERG BUS E13	SSPT-MAP 07E	S	
ED	VAC10	186BX/Y LOCKOUT RELAY RESET FOR 4KV EMERG BUS E23	SSPT-MAP 07F	S	
ED	VAC11	186BX/Y LOCKOUT RELAY RESET FOR 4KV EMERG BUS E33	SSPT-MAP 07G	S	
EV	VAC12	186BX/Y LOCKOUT RELAY RESET FOR 4KV EMERG BUS E43	SSPT-MAP 07H	S	
ED	VACR13	2A8545 AUTO TRANSFER SWITCH	SMPT-VAC04A	S	
ED	VACR14	2B8545 AUTO TRANSFER SWITCH	SMPT-VAC04A	S	
ED	VACR15	2C8545 AUTO TRANSFER SWITCH	SMPT-VAC04A	S	
EG	HCS01	H2 PRESSURE CONTROL	SSPT-SO 50B.1.A-2	S	
EG	HCS02	H2 PURITY CONTROL	SSPT-SO 50B.1.A-2	S	
EG	HS001	EMERG SEAL OIL PUMP SWITCH 1-93	SSPT-SO 50B.1.A-2	S	
EG	HS002	MAIN SEAL OIL PUMP SWITCH	SCPT-SO 50B.1.A-2	S	
EG	SWC01	SWC PUMP A SWITCH 43-51A	SSPT-SO 50A.1.A-2	S	
EG	SWC02	SWC PUMP B SWITCH 43-51B	SSPT-SO 50A.1.A-2	S	
FW	MCS01	COND FILT/DEMIN IN/OUT OF SERVICE	SSPT-SO 5A.1.A-2	S	
FW	MCS02	COND FILT/DEMIN HI DP RESET	SMPT-CRH07	S	
FW	MCS03	CONDENSATE PUMP A LOCKOUT	SMPT-MCS05A	S	
FW	MCS04	CONDENSATE PUMP B LOCKOUT	SMPT-MCS05B	S	
FW	MCS05	CONDENSATE PUMP C LOCKOUT	SMPT-MCS05C	S	
FW	MCS06	HP LUBE WATER PUMPS OAP62 & OBP62 CONTROL SWITCHES	SSPT-SO 30B.1.A	S	
FW	MFS01	RFP BYPASS VALVE	SSPT-SO 5.7.E-2	S	
FW	MFS02	RFP BYPASS- LCV 255E ISOLATION VLV	SSPT-SO 5.7.E-2	S	

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FW	MWT01	DEMIN WATER XFER PUMP STATUS	SSPT-SO 35.D.1.A	S	
FW	MWT02	DEMIN WATER JOCKEY PUMP OOP65	SSPT-SO 38D.1.A	S	
FW	MWT03	REFUELING WATER PUMP STATUS	SSPT-SO 27.1.A	S	
FW	MWT04	CONDENSATE XFER PUMP STATUS	SSPT-SO 27.1.A	S	
FW	MWT05	CONDENSATE XFER JOCKEY PUMP OOP29	SSPT-SO 27.1.A	S	
FW	MWT06	MAKUP DEMIN FEED PUMP STATUS	SSPT-SO 38C.1.D	S	
FW	MWT07	REFUELING WTR STOR TANK TO CST MAKEUP VLV	SSPT-SO 27.7.B	S	
FW	MWT08	REFUELING WATER PUMP AUTO SELECTION	SSPT-SO 27.1.A	S	
HP	HPC01	HPCI PRESSURE EQUALIZER VLV FOR VLV AD-23-18	SSPT-ST 16.8-2	S	
HP	T2302	TORUS TRANSFER TO CST VIA HPCI ENABLE	SSPT-T-230	S	
HV	TBV01	SELECT ISOPHASE BUS AREA COOLER	SSPT-SO 50D.1.A-2	S	
IA	IAS01	SERVICE AIR TO "A" INSTRUMENT HEADER VALVE	SSPT-SO 36.A.7.A-2	S	
IA	IAS02	SERVICE AIR TO "B" INSTRUMENT HEADER VALVE	SSPT-SO 36.A.7.A-2	S	
IA	IAS04	SERVICE TO INSTRUMENT AIR MANUAL BACKUP VALVE	SSPT-SO 36.A.1.C-2	S	
IA	IAS05	STANDBY COMPR TO SERVICE AIR HDR TIE VALVE	SSPT-SO 36.A.7.B-2	S	
IA	IAS06	INSTRUMENT AIR TO NITROGEN SYSTEM VLV AO-4230A	SSPT-SO 16.1.A-2	S	
IA	IAS07	INSTRUMENT AIR TO NITROGEN SYSTEM VLV AO-4230B	SSPT-SO 16.1.A-2	S	
IA	IAS08	INSTRUMENT N2 COMPRESSOR RESET (2)	SSPT-AO 44A.2-2	S	
IA	IAS09	BACKUP N2 FROM CAD TO B HDR	SSPT-T-261	S	
MC	CWS01	CLG TWR D LIFT PUMP OAP208	SSPT-SO 28B.1.A	S	
MC	CWS02	CLG TWR E LIFT PUMP OBP208	SSPT-SO 28B.1.A	S	
MC	CWS03	CLG TWR D FAN SEQUENCER	SMPT-CWS05D	S	
MC	CWS04	CLG TWR E FAN SEQUENCER	SMPT-CWS05E	S	

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MC	CWS05	CLG TWR FMP OVERTCURRENT RELAY RESET (5)	SMPT-CWS04A,B,C,D,E	S	
MC	MSS01	AUX STEAM SUPPLY TO SEAL STEAM SYS MO-2647	SSPT-SO 1H.1.A-2	S	
MS	MSS03	AUX STEAM SUPPLY TO TURBINE SEALS NO-2525	SSPT-SO 1H.1.A-2	S	
MS	MSS04	AUX STEAM SUPPLY TO COND HTNG COILS MO-2637	SSPT-SO 1H.1.A-2	S	
MS	MSS05	MAIN STEAM SUPPLY TO COND HTNG COILS MO-2469	SSPT-T-101	S	
MS	MSS08	AUX STM BOILERS	SSPT-GP-2	S	
NM	APR02	APRM 'B', GAIN ADJUSTMENT	SSPT-ST 3.2.2	S	
NM	APR03	APRM 'C', GAIN ADJUSTMENT	SSPT-ST 3.2.2	S	
NM	APR04	APRM 'D', GAIN ADJUSTMENT	SSPT-ST 3.2.2	S	
NM	APR05	APRM 'E', GAIN ADJUSTMENT	SSPT-ST 3.2.2	S	
NM	APR07	APRM 'B' MODE OF OPERATION	SMPT-APR06	S	
NM	APR08	APRM 'C' MODE OF OPERATION	SMPT-APR06	S	
NM	APR09	APRM 'D' MODE OF OPERATION	SMPT-APR06	S	
NM	APR10	APRM 'E' MODE OF OPERATION	SMPT-APR06	S	
OG	MET01	WIND DIRECTION VARIANCE ENVELOPE	N/A-N/A	S	
OG	MET02	WIND SPEED VARIANCE ENVELOPE	N/A-N/A	S	
OG	MET03	WIND SPEED	N/A-N/A	S	
OG	MET04	WIND DIRECTION	N/A-N/A	S	
OG	MET05	DEW POINT TEMPERATURE	N/A-N/A	S	
OG	MET06	PRECIPITATION	N/A-N/A	S	
OG	MET07	DELTA TEMPERATURE	N/A-N/A	S	
PC	DCW01	DRYWELL CHILLER LOAD ADJUST (A-C)	SSPT-SO 44A.1.A-2	S	
PC	DCW02	FAN 2AV26A	SSPT-SO 40C.1.A-2	S	
PC	DCW03	FAN 2AV26B	SSPT-SO 40C.1.A-2	S	
PC	DCW04	FAN 2BV26A	SSPT-SO 40C.1.A-2	S	
PC	DCW05	FAN 2BV26B	SSPT-SO 40C.1.A-2	S	

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PC	DCW06	FAN 2CV26A	SSPT-SO 40C.1.A-2	S	
PC	DCW07	FAN 2CV26B	SSPT-SO 40C.1.A-2	S	
PC	DCW08	FAN 2DV26A	SSPT-SO 40C.1.A-2	S	
PC	DCW09	FAN 2DV26B	SSPT-SO 40C.1.A-2	S	
PC	DCW10	FAN 2EV26A	SSPT-SO 40C.1.A-2	S	
PC	DCW11	FAN 2EV26B	SSPT-SO 40C.1.A-2	S	
PC	DCW12	FAN 2FV26A	SSPT-SO 40C.1.A-2	S	
PC	DCW13	FAN 2FV26B	SSPT-SO 40C.1.A-2	S	
PC	DCW14	FAN 2DV26A	SSPT-SO 40C.1.A-2	S	
PC	DCW15	FAN 2GV26B	SSPT-SO 40C.1.A-2	S	
PC	DCW16	DRYWELL CHILLER TRIP RESET A,B,C	SSPT-AO 44A.2-2	S	
PC	DCW17	DW CHILLED WATER MAKEUP FILL VLV	SSPT-N/A	S	
PC	RBV01	REFUELING FLOOR SUPPLY FANS STANDBY FAN RESET	SSPT-SO 40B.1.A-2	S	
PC	RBV02	REFUELING FLOOR EXHAUST FANS STANDBY FAN RESET	SSPT-SO 40B.1.A-2	S	
PC	RBV03	AREA VENTILATION EXHAUST FANS STANDBY FAN RESET	SSPT-SO 40B.1.A-2	S	
PC	RBV04	AREA VENTILATION SUPPLY FANS STANDBY FAN RESET	SSPT-SO 40B.1.A-2	S	
PC	RBV05	EQUIPMENT CELL EXHAUST FANS STANDBY FAN RESET	SSPT-SO 40B.1.A-2	S	
PC	RBV06	REACTOR BLDG. HIGH PRESSURE TRIP @ +0.5 INWG	SSPT-SO 40B.1.A-2	S	
PC	RBV07	REACTOR BLDG. LOW PRESSURE TOP @ -0.5 INWG	SSPT-SO 40B.1.A-2	S	
PC	RBV08	REACTOR BLDG. LOW-LOW PRESSURE TRIP @ -7 INWG	SSPT-SO 40B.1.A-2	S	
PC	RBV09	REFUELING FLOOR HIGH PRESSURE TRIP @ +0.5 INWG	SSPT-SO 40B.1.A-2	S	
PC	RBV10	REFUELING FLOOR LOW PRESSURE TRIP @ -0.5 INWG	SSPT-SO 40B.1.A-2	S	
PC	SGT01	VORTEX DAMPER CONTROL	SSPT-SO 9A.1.A	S	
PC	SGT02	BYPASS DAMPER CONTROL	SSPT-SO 9A.1.A	S	

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PC	SGT03	SGTS A & F FILTER EFFICIENCY	SSPT-T-104	S	
PC	T2221	INHIBIT GR III VALVES OPEN SIGNALS	SSPT-T-222	S	
PC	T2222	REMOVE LOW RPV LEVEL/HIGH DRYW PRESS ISOL	SSPT-T-222	S	
PC	T2231	REMOVE DRYW COOLER FAN TRIP SIGNALS	SSPT-T-223-2	S	
PC	T2321	REMOVE GR III ISOL FROM TORUS VTR FLT. PUMP	SSPT-T-232	S	
RC	RC101	RCIC TURBINE THROTTLE	SSPT-ST-6.11-2	S	
RC	RC102	RCIC PRESSURE EQUALIZER VLV FOR VLV MO-13-22	SSPT-ST-16.8-2	S	
RC	T2301	TORUS TRANSFER TO CST VIA RCIC ENABLE	SSPT-T-230	S	
RD	CRH01	CRD PUMP A DISCHARGE VALVE 3-143A	SSPT-SO 3.1.A-2	S	
RD	CRH02	CRD PUMP B DISCHARGE VALVE 3-143B	SSPT-SO 3.1.A-2	S	
RD	CRH03	CRD FLOW CNTRL STAT. FCV 3-19A/19B SELECTED FOR SV	SSPT-SO 3.1.A-2	S	
RD	CRH04	CRD DRIVE WTR FILTER 3-17A/17B SELECTED FOR SRVC	SSPT-SO 3.1.A-2	S	
RD	CRH05	CONTROL ROD XX-YY MOVEMENT INOP	SSPT-N/A	S	
RD	CRH06	CRD COMMON DISCH THROTTLE VALVE 170	SSPT-SO 3.1.A-2	S	
RD	CRH07	STABILIZING VALVE SELECT A/B	SSPY-SO 3.1.A-2	S	
RD	P2114	CRD MIN FLOW RECIRC VLV 37 PERM.T	SSPT-T-210	S	900689 - 1
RD	RMC01	REFUELING INTERLOCKS (ROD BLOCKS)	N/A-N/A	S	
RD	T2114	CRD MIN FLOW RECIRC VLV 37	SSPT-T-210	S	
RH	RHR01	LOOP A/B STAYFULL PRESSURIZING VALVES 71A/B	SSPT-SO 10.1.A-2	S	
RH	RHR02	LPCI LINE A/B STAYFULL PRESSURIZING VALVES 71C/D	SSPT-SO 10.1.A-2	S	
RH	RHR03	HEAD SPRAY LINE STAYFULL PRESSURIZING VALVE 65	SSPT-SO 10.1.A-2	S	

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RH	RHR04	SHTDN CLG LINES STAYFULL PRESSURIZING VALVE 74	SSPT-SO 10.1.A-2	S	
RH	RHR05	RW MANUAL VALVE TO WASTE COLLECTOR TANK 11	SSPT-S 3.2.E-1	S	
RH	RHR06	RHR AO-347 VALVE TO WASTE TANKS	SSPT-S 3.2.E-1	S	
RH	RHR07	MAJJA VLVS 10-66,57 TO WASTE TANK	SSPT-SO 10.1.A-2	S	
RH	RHR08	LPCI LINE A/B N2 PRESSURIZING; DEPRESSURIZING SYS	SSPT-ST 6.6.1	S	
RH	RHR09	SYS 1/11 RHR INJ. VLVS OVERCURRENT RESET	N/A-N/A	S	
PH	RHR10	RHR PUMP DISCH CONTRL VLVS 2677A, D BRKRS	SSPT-SO 10.1.A-2	S	
RH	RHR12	CHR MIN FLOW VLV A/B/C/D BREAKER	SSPT-SO 10.1.A-2	S	
RH	RHR13	RHR LPCI/SKUTDOWN VLV MO-154B CONTROL (MOD 1352A)	SSPT-SE-10	S	
RH	RHR14		SSPT-SE-11	S	
RP	RPS01	RPS SRM CHS. A-D/RPS CHS. A3/B3 SHORTING LINKS	SMPT-SRM01	S	
RP	RPS05	MG SET A RESTART	SSPT-SO 60F.7.A-2	S	
RP	RPS06	MG SET B RESTART	SSPT-SO 60F.7.A-2	S	
RP	T2211	REMOVE LOW RPV LEVEL/LOW MSL PRCS ISOL	SSPT-T-221	S	
Rk	RFC01	RECIRC. PUMP A/B GENERATOR LOCKOUT RELAY	SSPT-SO 1A.1.A-2	S	
RR	RFC02	RECIRC. PUMP A/B MG SCOOP TUBE MANUAL SET	SSPT-SO 2D.7.A-2	S	
RR	RFC03	RECIRC. PUMP A/B SCOOP TUBE PS HI-LIMIT	SSPT-GP 19.2	S	
RR	RFC04	RECIRC. PUMP A/B MG SCOOP TUBE AUTO POSITIONER PWR	SSPT-SE-2	S	
RR	RRS01	A RECIRC PUMP SEAL HIGH FLOW TRIP ISOL LINK 86-030	SMPT-RRS13A	S	
RR	RRS02	A RECIRC PUMP SEAL LOW FLOW TRIP ISOL LINK 86-030	SMPT-RRS13A	S	
RR	RRS03	B RECIRC PUMP SEAL HIGH FLOW TRIP ISOL LINK 86-030	SMPT-RRS13B	S	

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RR	RRS04	B RECIRC PUMP SEAL LOW FLOW TRIP ISOL LINK B6-030	SMPT-RRS13B	S	
RR	RRS05	VENT LINE ISOLATION VALVE 19	SSPT-GP-2	S	
SL	SLC01	DEMIN WATER TO SLC SUCTION VALVE ALIGNMENT	SSPT-T-244	S	
SW	RBW01	RBCCW HEAT EXCH A IN/OUT OF SERVICE	SSPT-SO 35.1.A-2	S	
SW	RBW02	RBCCW HEAT EXCH B IN/OUT OF SERVICE	SSPT-SO 35.1.A-2	S	
SW	RBW03	RBCCW MAKEUP VLV BLOCK VLV	SSPT-SO 35.5.A-2	S	
SW	RBW04	RBCCW BLEED VLV	SSPT-SO 35.5.A-2	S	
SW	RBW06	RBCCW AUTO M/U VLV BYP VLV	SSPT-SO 35.5.A-2	S	
SW	SWS01	WATER TEMP RANGE	SSPT-GP-2	S	
SW	SWS02	AIR TEMP RANGES	SSPT-GP-2	S	
SW	SWS03	RECIRC MG SET LO COOLER OUTLET VALVE A/B	SSPT-SO 2C.1.A-2	S	
SW	SWS04	RFPT LO COOLER OUTLET VALVE A-C	SSPT-SO 6C.1.C-2	S	
SW	SWS05	TURBINE COOLER OUTLET VALVE	SSPT-SO 1B.1.A	S	
SW	SWS06	FUEL POOL HX OUTLET THROTTLE VALVE	SSPT-SO 30.1.B-2	S	
SW	TBW01	TBCCW HEAT EXCH A IN/OUT OF SERVICE	SSPT-SO 34.1.A-2	S	
SW	TBW02	TBCCW HEAT EXCH B IN/OUT OF SERVICE	SSPT-SO 34.1.A-2	S	
SW	TBW04	TBCCW MAKEUP VLV BLOCK VLV	SSPT-SO 34.5.A-2	S	
SW	TBW05	TBCCW BLEED VLV	SSPT-SO 34.5.A-2	S	
SW	TBW07	TBCCW AUTO MAKEUP VLV BYP VLV	SSPT-SO 34.5.A-2	S	
TC	EHL01	LOCAL PRESS REGULATOR	SSPT-SO 1B.1.A-2	S	
TC	EHL02	420 HZ MALFUNCTION LAMP RESET	SSPT-SO 1B.1.A-2	S	
TU	MLO01	LIFT PUMP MOTOR A/B/C/D/E LOCAL BREAKER CONTROL	SSPT-SO 1B.1.A-2	S	
TU	MTA01	RESET LIFT PUMPS	SSPT-SO 1F.7.A-2	S	
CS	T2322	TORUS WTR CLEANUP FLOW CONTROLLER CV-4071	SSPT-T-232	U	900486 - 2

SYSTEM ID	REMOTE FUNCTION NUMBER	REMOTE FUNCTION TITLE	PERFORMANCE TEST USED FOR REMOTE FUNCTION VALIDATION	RESULTS OF TEST	WORK ORDER NUMBER - PRIORITY
CU	T2124	REMOVE RWCU ISOL SIGNALS	SSPT-T-212	U	900678 - 2
DG	DGA03	DG OPERATING TRANSFER SWITCH (4)	N/A-N/A	U	900450 - 3
DG	DGA06	DG COOLING WATER VLV FAILURE	SSPT-SO 48.7.B	U	900436 - 3
EG	EGA01	GENERATOR CORE MONITOR ALARM RESET PUSHBUTTON	SSPT-SO 50.1.A-2	U	900403 - 2
FW	MCS07	LP LUBE WATER PUMPS OAP50 & OBP50 CONTROL SWITCHES	SSPT-SO 280.6.A	U	900322 - 2
HP	HPC02	HPCI STM LINE ISOL VLV MO-23-15 POWER XFER	N/A-N/A	U	910046 - 3
HP	HPC03	HPCI TEST RETURN TO CST VLV MO-23-24 XFER	N/A-N/A	U	910004 - 3
HP	HPC04	HPCI ACS RELAY SW 23A-S101	SSPT-ST 23.4	U	900777 - 2
HP	HPC05	HPCI ACS RELAY SW 23A-S102	SSPT-ST 23.4	U	900777 - 2
IA	IAS03	SERVICE AIR TO SERVICE HEADER TIE VALVE	SSPT-SO 36.A.2.A-2	U	900374 - 3
NM	LPR01	LPRM INPUT XX-YY-ZZ	SSPT-SO 60A.7.A-2	U	890318 - 1
PC	FPC01	FUEL POOL COOLING PUMP CONTROL	SSPT-SO 19.2.A-2	U	900383 - 3
PC	P2322	REMOTE FXN T232-2 PERMIT	SSPT-T-232	U	900689 - 1 900486 - 2
PC	T2001	INHIBIT OUTBD VALVE OPERATION	SSPT-T-200	U	900709 - 2
PC	T2004	REMOVE GR III ISOL FROM OUTBD VLVS	SSPT-T-200	U	900709 - 2
RD	P2103	CRD SUCTION FILTER INLET VLV 127 PERMIT	SSPT-T-210	U	900689 - 1 900677 - 2
RD	RMC03	CONTROL ROD SPEED 10X NORMAL	N/A-N/A	U	900792 - 3
RD	T2102	CRD SUCT FILTER BYPASS VLV 129	SSPT-T-210	U	900784 - 2
RD	T2103	CRD SUCT FILTER BYPASS VLV 127	SSPT-T-210	U	900784 - 2
RD	T2111	CRD SUCT FILTER BYPASS VLV 130	SSPT-T-211	U	900677 - 2

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RD	T2112	CRD SUCT FILTER VENT & DRAINS VLVS	SSPT-T-211	U	900677 - 2
RD	T2113	CRD SUCTION FILTER BORON	SSPT-Y-211	U	900676 - 2
RH	RHR11	RHR HEADERS TIE VLV MO-10-20 BRKR	SSPT-SO 10.1.A-2	U	900304 - 2
RM	ARM01	STACK GAS HI-HI RAD INBD TRIP TEST PB (MOD 664)	N/A-N/A	U	900776 - 2
RM	ARM02	STACK GAS HI-HI RAD OTBD TRIP TEST PB (MOD 664)	N/A-N/A	U	900776 - 2
RP	RPS02	MG SET 'A' OUTPUT BREAKERS RESET	SSPT-SO 60F.1.A-2	U	900338 - 2
RP	RPS03	MG SET 'B' OUTPUT BREAKERS RESET	SSPT-SO 60F.1.A-2	U	900338 - 2
RP	RPS04	Rt ALTERNATE OUTPUT BREAKERS RESET	SSPT-SO 60F.1.A-2	U	900338 - 2
RP	RPS07	BKR PANEL 2AC757 ALARM RESET PB (MOD 1916)	SSPT-SO 60F.1.A-2	U	900338 - 2
RP	RPS08	BKR PANEL 2BC757 ALARM RESET PB (MOD 1916)	SSPT-SO 60F.1.A-2	U	900338 - 2
RP	RPS09	BKR PANEL 2CC757 ALARM RESET PB (MOD 1916)	SSPT-SO 60F.1.A-2	U	900338 - 2
RP	RPS10	PCIS HI-HI RAD INBOARD TRIP TEST SW (MOD 664)	N/A-N/A	U	900776 - 2
RP	RPS11	PCIS HI-HI RAD OUTBOARD TRIP TEST SW (MOD 664)	N/A-N/A	U	900776 - 2
SL	T2101	BORON TRANSFER SLC-CRD	SSPT-T-210	U	900715 - 2
SL	T2121	BORON TRANSFER SLC-RWCU PRECOAT TANK	SSPT-T-212	U	900680 - 2
SL	T2122	BORON TRANSFER PRECOAT TK-FILTER DEMIN	SSPT-T-212	U	900680 - 2
SW	PSWS07	PERMIT FOR REMOTE FUNCTION SWS07	SSPT-SO 10C.1.C-2	U	900392 - 3
SW	RBW05	RBCCW HEAD TANK DRAIN VALVE	SSPT-SO 35.5.A-2	U	900501 - 3
SW	SWS07	2D HPSW HX O:TLT VLV MO-10-B9D CONTROL	SSPT-SG .1.C-2	U	900392 - 3
SW	TBW03	TBCCW SWAPOVER VLV MO-2352	SSPT-SO 34.7.B-2	U	900454 - 3

SYSTEM ID	REMOTE FUNCTION NUMBER	REMOTE FUNCTION TITLE	PERFORMANCE TEST USED FOR REMOTE FUNCTION VALIDATION	RESULTS OF TEST	WORK ORDER NUMBER-PRIORITY
SW	TBW06	TBCCW HEAD TANK DRAIN VLV	SSPT-SO 34.5.A-2	U	900487 - 3
ED	VAC03	ALT. FEED TRANSFER SWS. 2(A/B/C)S545 (MOD 1029E)	N/A-N/A	X	900792 - 3
FP	FPR01	MOTOR DRIVEN FIRE PUMP CONTROL SWITCH	N/A-N/A	X	900792 - 3
FP	FPR02	DIESEL DRIVEN FIRE PUMP CONTROL SWITCH	N/A-N/A	X	900792 - 3
FP	FPR03	MOTOR DRIVEN FP DISCHARGE PIPE ISOLATION VALVE	N/A-N/A	X	900792 - 3
FP	FPR04	DIESEL DRIVEN FP DISCHARGE PIPE ISOLATION VALVE	N/A-N/A	X	900792 - 3
FP	FPR05	MOTOR DRIVEN FP SIDE BLOCK VALVE	N/A-N/A	X	900792 - 3
FP	FPR06	DIESEL DRIVEN FP SIDE BLOCK VALVE	N/A-N/A	X	900792 - 3
FP	FPR07	MOTOR PUMP HIGH PRESSURE LUBE VENT VALVE	N/A-N/A	X	900792 - 3
FP	FPR08	DIESEL PUMP HIGH PRESSURE LUBE VENT VALVE	N/A-N/A	X	900792 - 3
FP	FPR09	PCV-0304 FIRE HEADER PRESSURIZING VALVE	N/A-N/A	X	900792 - 3
FP	FPR10	TEST HEADER THROTTLE VALVE	N/A-N/A	X	900792 - 3
HC	HWC01	HYDROGEN CHEMISTRY H2 TRAIN SELECT	N/A-N/A	X	SYSTEM NOT SIMULATED
HC	HWC02	HYDROGEN CHEMISTRY O2 TRAIN SELECT	N/A-N/A	X	SYSTEM NOT SIMULATED
HV	TBV02	TURB BLDG VENT SUPP STANDBY FAN RESET	N/A-N/A	X	900794 - 3
HV	TBV03	TURB BLDG VENT EXH STANDBY FAN RESET	N/A-N/A	X	900794 - 3
HV	TBV04	EQUIP COMP SUPP STANDBY FAN RESET	N/A-N/A	X	900794 - 3
HV	TBV05	TURB BLDG AREA EXH STANDBY FAN RESET	N/A-N/A	X	900794 - 3
HV	TBV06	EQUIP COMP EXH STANDBY FAN RESET	N/A-N/A	X	900794 - 3
HV	TBV07	EMERG VENT FANS STANDBY FAN RESET	N/A-N/A	X	900794 - 3

01/29/91

SYSTEM ID	REMOTE FUNCTION NUMBER	REMOTE FUNCTION TITLE	PERFORMANCE TEST USED FOR REMOTE FUNCTION VALIDATION	RESULTS OF TEST	WORK ORDER NUMBER - PRIORITY
HV	TBV08	CONT RM SUPP FANS STANDBY FAN RESET	N/A-N/A	X	900794 - 3
HV	TBV09	A/C SUPP FANS STANDBY FAN RESET	N/A-N/A	X	900794 - 3
HV	TBV10	CONT RM RET AIR FANS STANDBY FAN RESET	N/A-N/A	X	900794 - 3
MS	MSS09	COND SUPPLY TO "A" DRNTK CV-4210A	N/A-N/A	X	900792 - 3
MS	MSS10	COND SUPPLY TO "B" DRNTK CV-4210B	N/A-N/A	X	900792 - 3
MS	MSS11	COND SUPPLY TO "C" DRNTK CV-4210C	N/A-N/A	X	900792 - 3
MS	MSS12	COND SUPPLY TO "D" DRNTK CV-4210D	N/A-N/A	X	900792 - 3
MS	MSS13	COND SUPPLY TO "E" DRNTK CV-4210E	N/A-N/A	X	900792 - 3
MS	MSS14	COND SUPPLY TO "F" DRNTK CV-4210F	N/A-N/A	X	900792 - 3
OG	OGR01	SPARE	N/A-N/A	X	
PC	P2003	REMOTE FXN T200-3 PERMIT	N/A-N/A	X	900689 - 1
PC	T2002	REMOVE GR 111 ISOL FROM AO-2507	N/A-N/A	X	900715 - 2
PC	T2003	AO-2507 LOCAL OPERATION	N/A-N/A	X	900715 - 2
SW	ESW01	ESW COOLING SUPPLY TO RBCCW HX IN/OUT	N/A-N/A	X	900794 - 3
SW	HPW01	TESTABLE CHECK VALVE BYPASS	N/A-N/A	X	900792 - 3
YC	PPC01		N/A-N/A	X	WILL BE SUPERCEDED BY MOD 0955 900794 - 3
YC	PPC02		N/A-N/A	X	WILL BE SUPERCEDED BY MOD 0955 900794 - 3

PEACH BOTTOM ATOM.C POWER STATION UNIT 2
SIMULATOR
TRIP OVERRIDE VALIDATION

The Trip Overrides for the Simulator are validated during the performance of the Simulator Performance Tests where possible. Those not validated during Performance Tests are validated separately. The listing below lists the Trip Overrides that have been tested, the Performance Test where applicable, and the results. The Acceptance Criteria for testing Trip Overrides is:

- 1) The proper functional response is provided to the operator (i.e., control board indications and annunciators occur or fail to occur, logic circuits are disabled in accordance with current Simulator Configuration, etc.).
- 2) The Simulator dynamic response corresponds to the loss of the function being overridden and, where applicable, does not provide the same response as the Performance Test without the override.

Those Trip Overrides that are found Unsatisfactory when judged against these criteria are listed at the end of this report; the assigned CHS Work Order Number and Priority are included.

Page No. 1

01/29/91

SYSTEM ID	TRIP OVERRIDE NUMBER	TRIP OVERRIDE TITLE	PERFORMANCE TEST USED FOR TRIP OVERRIDE VALIDATION	RESULTS OF TEST	WORK ORDER NUMBER/PRIORITY
AD	ADS01	ADS INITIATION RELAYS (2E-K4)	SMPT-RRS20	S	
AD	ADS02	ADS INITIATION RELAYS (2E-K11)	SMPT-RRS20	S	
CS	CSS01	RX LO LVL, DW HI PR & RX LO PR RLY 14A-K1JA	SMPT-RRS20	S	
CS	CSS02	RX LO LVL, DW HI PR & RX LO PR RLY 14A-K10B	SMPT-RRS20	S	
EG	MGA01	MAIN GENERATOR B6 LOCKOUT RELAY	SMPT-MTA04	S	
FW	MFS01	RFPT A TRIP OVRD (SV-12A)	SMPT-MFS01A	S	
FW	MFS02	RFPT B TRIP OVRD (SV-12B)	SMPT-MFS01B	S	
FW	MFS03	RFPT C TRIP OVRD (SV-12C)	SMPT-MFS01C	S	
HP	HPC01	TURB TRIP AUX RELAY 23A-K14	SMPT-RPS03	S	
HP	HPC02	HPCI INITIATION 23A-K23	SMPT-MFS02	S	
HP	HPC03	HPCI INITIATION 23A-K24	SMPT-MFS02	S	
HP	HPC04	HPCI AUTO ISOLATION 23A-K27,K28,K31,K57	SMPT-RRS20	S	
RC	RCI01	RCIC TURB TRIP AUX RELAY 13A-K10	N/A-N/A	S	
RC	RCI02	RCIC TURB TRIP AUX RELAY	N/A-N/A	S	

SYSTEM ID	TRIP OVERRIDE NUMBER	TRIP OVERRIDE TITLE	PERFORMANCE TEST USED FOR TRIP OVERRIDE VALIDATION	RESULTS OF TEST	WORK ORDER NUMBER/PRIORITY
		13A-K11			
RC	RC103	RCIC AUTO ISOLATION 13A-K12	SMPT-RRS20	S	
RC	RC104	RCIC AUTO ISOLATION RELAY 13A-K22	SMPT-RRS20	S	
RC	RC105	RCIC AUTO ISOLATION RELAY 13A-K34	SMPT-RRS20	S	
RC	RC106	RCIC AUTO ISOLATION RELAY 13A-K48	SMPT-RRS20	S	
RC	RC107	RCIC AUTO ISOLATION RELAY 13A-K49	SMPT-RRS20	S	
RC	RC108	RCIC AUTO ISOLATION RELAY 13A-K54	SMPT-RRS20	S	
RC	RC109	RCIC INITIATION 13A-K1	STPT-MFS01	S	
RC	RC110	RCIC INITIATION RELAY 13A-K2	STPT-MFS01	S	
RD	RMC01	CONTROL ROD INSERT/WITHDRAW BLOCKS	SSPT-T-102	S	
RH	RHR01	DW PR AND RX LOW LVL RLY 10A-K9A	SMPT-RRS20	S	
Rh	RHR02	HI DW PR AND RX LOW LVL RLY 10A-K9B	SMPT-RRS20	S	
RP	ARI01	RELAY 4-ARIA	SMPT-IPM03	S	
RP	ARI02	RELAY 4-ARIB	SMPT-IPM03	S	
RP	RPS01	RPS AUTO SCRAM CH. 'A1'	SMPT-RPS03	S	
RP	RPS02	RPS AUTO SCRAM CH. 'A2'	SMPT-RPS03	S	
RP	RPS03	RPS AUTO SCRAM CH. 'B1'	SMPT-RPS03	S	
RP	RPS04	RPS AUTO SCRAM CH. 'B2'	SMPT-RPS03	S	
RP	RPS05	RPS AUTO SCRAM CH. '3'	SMPT-RPS03	S	
RP	RPS06	RPS AUTO SCRAM CH. 'B3'	SMPT-RPS03	S	
TC	EHL01	MASTER TRIP SOLENOID RELAY (XLB-1)	SMPT-MTA04	S	
TC	EHL02	MASTER TRIP SOLENOID RELAY (XLB-2)	SMPT-MTA04	S	

SYSTEM ID	TRIP OVERRIDE NUMBER	TRIP OVERRIDE TITLE	PERFORMANCE TEST USED FOR TRIP OVERRIDE VALIDATION	RESULTS OF TEST	WORK ORDER NUMBER/ PRIORITY
TC	EHL03	MECHANICAL TRIP	SMPT-HTA04	S	
RD	RMC02	CONTROL ROD SELECT BLOCK	SSPT-T-102	U	900690 - 2
RP	PC101	PCIS GROUP 1 ISOLATION	SMPT-FCR01	U	900781 - 2
RP	PC102	PCIS GROUP 2 ISOLATION	SMPT-RPS03	U	900700 - 1
RP	PC103	PCIS GROUP 3 ISOLATION	SMPT-RPS03	U	900700 - 1
HC	HWC01	H2 ADDITION SYSTEM TRIP	N/A-N/A	X	SYSTEM NOT SIMULATED

PEACH BOTTOM ATOMIC POWER STATION UNIT 2
SIMULATOR
MODIFICATIONS INSTALLED BEFORE DELIVERY

The Modifications listed below were identified and installed on the Simulator during construction. Data from these Modifications is included in the original Simulator Design Database.

Page No. 1

01/29/91

MOD NUMBER	SYSTEM ID	MODIFICATION TITLE	MODIFICATION DESCRIPTION
0625A	AD	TITLE: INSTALL TEST/VENT CONNECTIONS, ADS AIR SUPPLY CHAECK VALVES.	DESCRIPTION: CLOSED W/E&R MORE INFO AVAILABLE ON NRMS. REFER TO 0625 FOR ALL INFORMATION.
1352G	AD	TITLE: ADS Alternative Shutdown Station Modification --U/2.	DESCRIPTION: Provide alternative control capability for (3)U/2 ADS valves & (2)U/2 nitrogen supply isolation valves (RV2-02-071A,B,& K and SV-8130A&B, respectively). Alternative controls will be established @ the U/2 HPCI ACS. individual isolation switches will also be installed for RV-2-02-071C,D,E,F,G,H,J, & L. PURPOSE: Satisfy appendix R of 10CFR50/ensure safe shutdown in event of design basis fire.
88-081	AN	TITLE: MAINT. SHOP EMERGENCY EYEWASH & SHOWER ALARM.	DESCRIPTION: INSTALL 110 AC POWER SUPPLY FROM A LOCAL LIGHTING PANEL SUPPLY THE LOCAL ALARM ON THE SHOWER. NOTE: THERE IS AN EXISTING OPERABLE ALARM FOR THIS SHOWER IN THE CONTROL ROOM. PURPOSE: PROVIDE A LOCAL ALARMING FOR ACTIVATION OF THE MIANT. SHOP EMERGENCY EYEWASH AND SHOWER. THIS WAS FIXED AS PART OF THE CONTROL ROOM HARDWARE REVIEW. AN ANNUNCIATOR WINDOW WAS ADDED
1293	CS	TITLE: MOD Of Core Spray Loop Flow Indicator FI-14-50A,B.	DESCRIPTION: This will install square root converter in each core spray pump flow instrumentation loop, changing indicator's scale from square root to linear. Scale will be changed from 0-10, 000gpm to 0-7500gpm.

MOD NUMBER	SYSTEM ID	MODIFICATION TITLE	MODIFICATION DESCRIPTION
			PURPOSE: Improve flow indication during single pump testing.
1187	CU	TITLE: Remove RX Water Cleanup Pump Trip Relays:16A-K 38's.	DESCRIPTION: MOD will remove 16A-K38 relays from C42 panels in each unit. These relays trip RWCU pumps when return valve M)-68 closed. PURPOSE: These relays have been jumpered out (1979) to allow RWCU dumping to condensor with M)-68 closed.
0979	DG	TITLE: Diesel Generator System.	DESCRIPTION: Install manual quick start circuit for each of four emergency diesel generators. PURPOSE: Allow the operator to start diesels quickly by bypassing 3 min. prelube cycle in event the automatic start fails.
1351A	DG	TITLE: Establish Alternate Shutdown Control Stations-D/G .	DESCRIPTION: Establish alternate control stations (ACS) for diesel gener. OBG12 and ODG12 and their associated 4KV emergency feeder breakers for both units. Completion work on U-2; transfer switches, manual controls and indication work on 20A1606 will connect OBG12 to 20A16, similar work on 20A1807 will connect ODG12 to 20A18. Indic. lights instal. on 20A16&A18. PURPOSE: To assure safe shutdown in the event of a design basis fire in the control room or the cable spreading room.
1927A	DG	TITLE: Trip Of Diesel From Control Rm During Loca.eam Drain Line	DESCRIPTION: Time delay will be added to each DG control circuit. Relay will be energized by loca signal. Contacts will deenergize the operating coil of the MCA relay after 10 min time delay. De-ener. oper coil of MCA relay after 10 min. will allow manual reset of the MCA relay when DG control switch (in CR) is in trip position. This causes DG to trip. PURPOSE: Insure reliable source of emerg power during no load or light load condition.

MOD NUMBER	SYSTEM ID	MODIFICATION TITLE	MODIFICATION DESCRIPTION
0525	ED	TITLE: PROVISION OF 4KV EMERGENCY BUS ALARM ADDITIONS MOD	DESCRIPTION: PROVIDE AN ALARM IN CONTROL ROOM INDICATING A LOSS OF AUXILIARY CONTROL POWER ON 4KV BUSES. PURPOSE: ADDS CIRCUITRY WHICH WILL MONITOR AUXILIARY CONTROL POWER ON VARIOUS 4KV BUS BREAKER FOR MAIN CONTROL RM INDICATION.
0599	ED	TITLE: ADD NEW VOLTAGE MONITORING RELAYS TO 4KV BREAKERS (MODS 599A & 599B)	DESCRIPTION: 599A INSTALLED NEW VOLTAGE MONITORING RELAYS THAT WILL TRIP FEEDER BREAKERS TO 4KV EMERG BUSES IF THE VOLTAGE DROPS 90% OF NOMINAL. 599B AUTO TRIP OF ALL COOLING TOWER PP & FANS IF ONE OFF-SITE SOURCE IS UNAVAILABLE. PURPOSE: ELIMINATE DEGRADED VOLTAGE CONDITION WHEN UNIT AUXILIARY BUSES ARE TRANSFERRED TO STARTUP FEED.
0599A	ED	TITLE: 4KV Voltage Monitoring Relays / Add New Relays.	DESCRIPTION: Addition of new voltage monitoring relays to the 4KV feeder breakers that will trip the breakers. If voltage degrades and a new signal trip will be added to cooling towers pumps and fans: PURPOSE: Eliminate degraded voltage condition when unit aux. buses are transferred to start up feed (fast transfer).
0614	ED	TITLE: MODIFICATION CHANGE ELECTRICAL FEED TO C-144 PANEL I.E. BULLETIN 79-27.	DESCRIPTION: CLOSED W/E&R MORE INFO AVAILABLE ON NRMS. NOTE: SUSPENDED BY MOD 1029E.
0999	ED	TITLE: Install Cell Switch/ Charging Motor Spring Monitor On 4KV	DESCRIPTION: The cell switch and the closing spring charging motor limit switch of each \$KV breakers will be wired into the breaker's front panel control switch's green indicating light. PURPOSE: Provide positive indication for

MOD NUMBER	SYSTEM ID	MODIFICATION TITLE	MODIFICATION DESCRIPTION
		Breakers.	when the breaker is racked in and spring charged ready to close.
1352E	ED	TITLE: AC Power Distribution Alternative Control Stations.	DESCRIPTION: Provide alternative control stations for the 4KV circuit breakers for unit 2 B & D safeguard channel load center center transformers, 20X31 & 20X33 respectively. PURPOSE: Satisfy appendix R of 10CFR50/ensure safe shutdown in event of design basis fire.
1352F	ED	TITLE: Modification Of Alternative DC Power Distribution .	DESCRIPTION: MOD will complete distribution panel circuits to supply DC control pwr to alternative shutdown loads. New safety related DC distribution panels 3DD306 & 2BD306 were installed under MOD 1353F to provide 125V DC power for alternative shutdown systems. PURPOSE: Satisfy appendix R of 10CFR50.
0880	EG	TITLE: Main Gen. Installation Back-up Loss Of Field Relay.	DESCRIPTION: Installation of back-up loss of field relay protection on main generator. PURPOSE: To provide a back-up loss of field relay protection.
1049	EG	TITLE: Main Generator Energization Protection Scheme MOD.	DESCRIPTION: The installation of an underfrequency, overcurrent and associated aux relays in existing CT and PT circuits of each generator. PURPOSE: To provide a dedicated high speed protective relay scheme to protect the main generators from accidental energization.
1099	EG	TITLE: Replace Main Gen Negative Phase Sequence	DESCRIPTION: Replacing existing "INC" neg sequence relays w/new "SGC" neg sequence relays. PURPOSE: Provide more sensitive/reliable

MOD NUMBER	SYSTEM ID	MODIFICATION TITLE	MODIFICATION DESCRIPTION
		Relays.	neg sequence relay for main gen.
1247	EG	TITLE: Install Additional Generator Over-Excitation Relay.	DESCRIPTION: Install new "STV" relay in alterex compartment near existing STV relay & will be connected to an alarm only in control room. PURPOSE: Provide annunciation of an over excitation condition prior to reaching trip setpoint.
2079	FP	TITLE: Relocate Valve Controls Or Change Logic For App.R.	DESCRIPTION: MOD will correct problems with motor operated valve circuits for above valves. In each case, spurious operation of valves could occur for a fire in an area where valve control cables are routed. This MOD will correct these problems by either reselecting valve controls to "non-problem" areas or by making Logic changes. PURPOSE: Meet Appendix R Requirements.
0513	FW	TITLE: PROVIDE INDICATING LIGHTS FOR RX FEEDPUMP TURB AND MAIN GENERATOR LOCK-OUT RELAY POWER.	DESCRIPTION: CLOSED W/E&R - MORE INFO AVAILABLE ON NRMS PURPOSE:
0924	FW	TITLE: Annunciator Closure MOD Of Feed Water Stop Valves.	DESCRIPTION: Install control room annunciator for each valve MO-29A, MO-29B. It will alarm if valves are not in full open position. PURPOSE: If these valves are closed it may prevent HPCI and RCIC injection should they be required.
1684	FW	TITLE: 3RD & 4TH Heater	DESCRIPTION: Isolation valves on extraction steam sys have been bypassed by

MOD NUMBER	SYSTEM ID	MODIFICATION TITLE	MODIFICATION DESCRIPTION
		Extraction Steam Drain Line CV's.	assoc. moisture removal lines. Stop valves were installed by MOD 0681. This will eliminate the bypassed condition. PURPOSE: Prevent bypass water from reaching low pressure turbines.
1695	FW	TITLE: Replace the RX feedpump minimum flow recirc valves (AO-2139A, B, C & AO-3139A, B, C) (Previously MOD 0193).	DESCRIPTION: MOD will replace 6 RX feedpump recirc. air operated valves w/new high pressure drop, low recovery air-operated valves. New valves will be installed adjacent to condenser (EL120'). **MOD 0193 was transferred to this MOD 1695.
2389	FW	TITLE: Change/Split PWR Feeds To 3RD, 4TH, 5TH Fdwtr Heater Extraction Steam Air Operated Valves.	DESCRIPTION: A loss of a single Y-panel (Y33) will result in closure of all these valves resulting in loss of fdwtr heating beyond the UFSAR transient analysis of loss of one heater string (Section 14.5.2.2). LER 2-87-31. PURPOSE: Licensee event report 2-87-31.
85-059	FW	TITLE: MOD To DPT-2124 On The 'C' Reactor Feed Pump.	DESCRIPTION: MOD will replace DPT-2124 model LN 1972 w/a new Leeds and Northrup model #2610/ PURPOSE: Existing transmitter leaks & IS irreparable.
1549C	HC	TITLE: Installation Of H2 Water Chemistry For Unit 2.	DESCRIPTION: Installation of hydrogen water chemistry system. HWC prevents IGSCC by reducing dissolved oxygen level in reactor coolant by addition of hydrogen gas to feedwater. PURPOSE: To reduce IGSCC in the reactor vessel and associated systems.

MOD NUMBER	SYSTEM ID	MODIFICATION TITLE	MODIFICATION DESCRIPTION
0636	HP	TITLE: MOD FOR SPACE COOLING OF HPCI AND RCIC ROOMS-NUREG 0737.	DESCRIPTION: CLOSED W/E&R MORE INFO AVAILABLE ON NRMS.
1253	HP	TITLE: Replace HPIC Steam Trap Level Switch, LS-2(3)-23-90.	DESCRIPTION: Existing Robertshaw LS-2(3)-23-90, will be replaced with new FCI level element/electric unit. PURPOSE: Level switch has had a history of electrical/mechanical problems.
1352A	HP	TITLE: U/2 HPCI Alternative Control Station Modification .	DESCRIPTION: Establish alternative control station (ACS) for U/2 HPCI sys. This will be located in U/2 recirc M/G set rm. panel will accommodate all transfer isolation switches, controls & indication needed. PURPOSE: Satisfy appendix R of 10CFR50; to ensure safe shutdown in the event of a design basis fire.
1352B	HP	TITLE: Diagnostic Monitoring Instrumentation/Various System.	DESCRIPTION: Provides diagnostic instrumentation for various systems & turbine speed control & indication for the HPCI system necessary to assure safe/alternative shutdown. PURPOSE: Satisfy appendix R of 10CFR50/ensure safe shutdown in the event of a design basis fire.
1584	HP	TITLE: Thermal Over-Load Annun. Of Safety-Related Motor Operated Valves. NRC Info Notice 84-13.	DESCRIPTION: 13 motor operated valves on HPIC, RCIC, Core Spray, RHR, PCIS systems do not give thermal overload (tol) trip alarm. PURPOSE: Alarm is needed due to "Limerick Fix" of these MO valves. Also, an NRC information notice.

MOD NUMBER	SYSTEM ID	MODIFICATION TITLE	MODIFICATION DESCRIPTION
2080	HP	TITLE: Install HPCI Turbine Trip Pushbutton On CR Panels.	DESCRIPTION: HPCI trip from control room. Add additional trip circuit for HPCI to insure HPCI trips in the event of a fire in areas 6S and 13S. PURPOSE: Meet NRC append. R requirements.
83-025	HP	TITLE: Hi Press Cool Inject Startup Transient Improvements .	DESCRIPTION: MOD involves modifying governor control system so control valves will be partially shut when steam is admitted. PURPOSE: Eliminate large surge of steam on turbine start-up.
84-006	HP	TITLE: Install Improved HPCI Turbine Mech Over-Speed Trip Relay. (G.E. Sil 392).	DESCRIPTION: Replace existing tappet assembly w/new re-designed assembly from Terry Corporation. PURPOSE: Improve reliability of HPCI Turbine.
83-075	HV	TITLE: Remove Low Temperature Trip On RF & RB Fans.	DESCRIPTION: Low temp. trip mercoid switches have been broken & jumped out since 1975. These switches will be replaced w/Johnson control #A11B-1. The trip will be removed. PURPOSE: Eliminate risk of plant shutdown due to loss of supply vent. Should aux. boilers fail during winter.
0625	IA	TITLE: MODIFICATION FOR SAFETY GRADE AIR SUPPLIES-PBA PS.	DESCRIPTION: CLOSED W/E&R MORE INFO AVAILABLE ON NRMS.
0941	IA	TITLE: Install Scram Pilot Valve Air Header Press Indicat	DESCRIPTION: Install pressure transmitter on scram pilot valves air header & indicator on control RM panel C124 to verify that scram valves are closed. Also added isolation valve & repaired elbow on PI-3-03-229.

MOD NUMBER	SYSTEM ID	MODIFICATION TITLE	MODIFICATION DESCRIPTION
		Loop.	PURPOSE: Low pressure in pilot valve header may cause scram valve leakage. Indicator will verify scram valves are closed.
0599B	MC	TITLE: MOD TO PROVIDE TRIP, COOLING TOWER PUMPS AND FANS.	
1515	MC	TITLE: Replace Hotwell Coarse/Fine Level Controllers. (Completion Of This MOD Also Closes MOD 85-036).	DESCRIPTION: Existing hotwell controllers will be placed by single loop controllers in conjunction w/a signal converter for each controller. PURPOSE: Initiated due to repeated failures of automatic Mode function of U/2 controller & unavailability of parts.
0536	MS	TITLE: INSTALL MSRV DISCHARGE LINE VACUUM RELIEF VAVLES, INDICATION & ALARMS. (PREVIOUSLY MOD REQ 0380)	DESCRIPTION: MOD INSTALLS ADDITIONAL VACUUM RELIEF VALVES ON EACH MSRV DISCHARGE LINE WITH POSITION INDICATION/ALARM IN CONTROL ROOM. PURPOSE: TO MITIGATE MSRV CLEARING LOADS ON TORUS SUPPRESSION CHAMBER.
1660	MS	TITLE: ADS/MSIV Instru Nitrogen Accumulator Leakage Limit.	DESCRIPTION: The ADS & MSIV inboard accumulators will be replaced w/ones of larger capacity. The ADS accumulators will have at least 4-hrs pneumatic supply post-loca. The MSIV accumulator will have at least 1-hr post-loca pneumatic supply. Small piping associated w/the ADS valve & MSIV pneumatic supplies will be re-sourted. PURPOSE: So that present allowable accumulator leakage rates can be increased

MOD NUMBER	SYSTEM ID	MODIFICATION TITLE	MODIFICATION DESCRIPTION
			to improve maintainability reducing personnel exp.
1950A	MS	TITLE: Install back-up nitrogen supply to non-ADS MSRV'S.	DESCRIPTION: MODS consists of the installation of a back-up Pneumatic Nitrogen supply to SRV's RV-2(3)-02-0171E,H, & J. PURPOSE: Bring PBAPS into compliance with appendix R to 10CFR50.
5028	MS	TITLE: PS2(3)-2-128 A,B; Setpoint Change To Ensure Instr. Are W/IMRF's Spec's Range, & Within Safety Limit.	DESCRIPTION: Reduce instrument setpoints on PS-128's to values within MRF's specified range and within safety limit. Setpoints have been verified by Nuclear Engrg via EWR P-50391. Setpoints are safety-related. PURPOSE: This MOD supports resetting the reactor dome pressure RHR isolation interlock pressure switches.
0639	N/A	TITLE: A MOD FOR CONTROL ROOM HABITABILITY - (NUREG 0737) (PREVIOUSLY MOD REQUEST 0548)	DESCRIPTION: CLOSED W/E&R MORE INFO AVAILABLE ON NRMS.
1958	N/A	TITLE: Remote shutdown panel human factors enhancement.	DESCRIPTION: MOD includes painting exterior of panel beige, enhancing FRO NT of PRS with color pads, outline & re-labeling panel with a heirarchical scheme. PURPOSE: Conform to human factor guidelines.
0018	PC	TITLE: STAND-BY GAS TREATMENT DAMPER CONTROL	DESCRIPTION: PROVIDE REMOTE MANUAL CONTROL OF VORTEX VANES & RECIRC. DAMPERS IN CONTROL ROOM. TO ALLOW OPERATOR TO CONTROL FLOW THROUGH THE SBTG FAN AND RECIRC DAMPERS. MOD REQUEST IS A RESULT OF

MOD NUMBER	SYSTEM ID	MODIFICATION TITLE	MODIFICATION DESCRIPTION
		UPGRADE	FREQUENT AND LONG DURATIONS OF SBTG OPERATION WITH NUMEROUS TEST REQUIRED DURING AN OUTAGE. EACH TEST REQUIRES OPERATOR TO MAKE ADJUSTMENTS. PURPOSE: TO IMPROVE THE SYSTEM CONTROLS UNDER VARIOUS OPERATING MODES & TO PROVIDE REMOTE CONTROL OUTSIDE THE RAD. AREA.
0494	PC	TITLE: Change Ranges On Containment Temp. Ctrl Rm Recorders See Temp MOD 85-093. (TMI Lessons)	DESCRIPTION: To conform to the new temp requirements (40 to 440 F) PR/TR 4805 and 5805 will be replaced with new recorders. TI2501 and 3501 have been deleted from this MOD and will be replaced under MOD 2006. This portion was deleted because the old indicators could not be re-calibrated to the new range. PURPOSE: Eliminate discrepancies between Tech Spec Ranges & actual Instrument ranges, and to meet req guide 1.97.
0603	PC	TITLE: TORUS TEMP MONITORING THERMOWELLS (603A) AND INSTALL SUPPRESSION POOL TEMP. MONITOR.	DESCRIPTION: THIS MODIFICATION INSTALLS TORUS TEMPERATURE MONITORING THERMOWELLS AND SUPPRESSION POOL TEMPERATURE MONITORING SYSTEM (SPOTMOS). PURPOSE: TO SATISFY ASME PRESSURE VESSEL CODE SECTIONS III AND XI TOGETHER W/LOAD COMBINATIONS AND SERVICE LEVEL ASSI PER NRC.
0632	PC	TITLE: Lowering Of PCIS Group I Low Level Isola. Setpoint (Reduce MSIV Setpoint) Previously MOD Request 1521.	DESCRIPTION: Lowering PCIS group I low level isolation setpoint from -48" to -160". To compensate for high drywell tem. (340F). In worst case accident conditions, actual setpoint will be set @ -130" reactor water level. ***Note: MOD req 0632 dealt w/adequacy of emerg tower missile protection. Engr:S.Kowalski ; it is a closed request. PURPOSE: Eliminate unnecessary isolations during reactor scram to reduce challenges to safety relief valves.
0633	PC	TITLE: Revise Logic	DESCRIPTION: Add manual inhibit switch and bypass of high drywell pressure initiation

MOD NUMBER	SYSTEM ID	MODIFICATION TITLE	MODIFICATION DESCRIPTION
		Control Of Auto Depressuriza tion System.	signal. PURPOSE: Assure adequate core cooling by manual depressurization & reduce dependence on operator action. Meet Nureg-0737.
0664	PC	TITLE: Hi Radiation Trip Of Containment Vent/Purge Vaives.	DESCRIPTION: PCIS logic for containment vent/purge valves to be modified by adding trip signal from off-gas stack rad monitors. This will isolate all vent and purge valves greater than 2" with a high rad signal, when valves are open and SBGT has flow. Also, under the scope of this MOD a bypass switch will be added to the Torus and Drywell 18" exhaust valves. PURPOSE: Meet requirements of item 11.E.4.2(7) of NUREG-0737, clarification of TMI action plan requirements.
1350	PC	TITLE: Remove D/W Chilled Water Flow Xmitters To Recirc Pump Motor Coolers.	DESCRIPTION: Removal of instrument tubing leading from flow elements to transmitters, capping the flow element lines, sealing tubing penetrations, removing control room indicators. PURPOSE: Present instrument lines do not meet isolation provision.
1505	PC	TITLE: Remove SBGT System Diff Switch Pressure Switches.	DESCRIPTION: MOD will remove existing DPS-00014 & 00015 differential pressure switches. Upon an initiation signal, the primary fan and the backup fan will start simultaneously. **This MOD incorp. MODS 1512/1513 which are duplicated are were canceled. PURPOSE: To ensure that at least one SGTS fan is available.
2459	PC	TITLE: Provide Auto Isol Signal To Trip D/W Purge Supply Fans & Close	DESCRIPTION: These valves are required to close on a secondary containment isolation (G 111) in order to establish secondary containment integrity. This should be implemented prior to restart of units. This is required to resolve a suspected

MOD NUMBER	SYSTEM ID	MODIFICATION TITLE	MODIFICATION DESCRIPTION
		Valves AO-2(3)0459 & AO-2(3)0460.	violation. PURPOSE:
84-144	PC	TITLE: Install Indicator & Drywell Press Loop PT-2(3)508A.	DESCRIPTION: MOD will use existing control room indicator (-2 to 2 PSIG) & connect into Drywell pressure loop PT-2(3)508A. PURPOSE: Remove jumpers assoc w/PT-2517(3517), whose -2 to 2 PSIG indicator has been rewired into PT-2(3)508 loop.
87-020	PC	TITLE: Instrument N-2 Back-up SV-8 (9)130 A,B Bypass Line.	DESCRIPTION: Construct a bypass line for each back up nitrogen valve, SV-8(9)130A,B. The bypass line will be mounted near the SV, but not connected to N-2 piping during normal operations. PURPOSE: Provide means of supplying ads SRV's with an adequate N2 supply under station blackout or appendix R fire.
0630	RC	TITLE: MODIFICATION FOR THE AUTOMATIC RE-START OF RCIC NUREG-0737.	DESCRIPTION: CLOSED W/E&R MORE INFO AVAILABLE ON NRMS.
1352C	RH	TITLE: Residual Heat Removal Alternative Control Station.	DESCRIPTION: Provide alternative control capabilities for unit 2 "B" safeguard channel RHR motor operated valves @ HPCI ACS. An ACS will be established for 2BP35 RHR pump at motor circuit breaker 20A1602. PURPOSE: Satisfy appendix R of 10CFR50/ensure shutdown in event of design basis fire.
84-033	RH	TITLE: Replace Containment Spray Flow Transmitters	DESCRIPTION: MOD will replace existing RHR containment spray flow transmitters, FT-111A. Existing ITT Barton Transmitter will be replaced with new Rosemont.

MOD NUMBER	SYSTEM ID	MODIFICATION TITLE	MODIFICATION DESCRIPTION
		: FT-111A and FT-111B.	PURPOSE: Existing transmitter is not repairable & is no longer available from Barton.
0377	RM	TITLE: MOD FOR RADIATION MONITORING SYS FOR HVAC EXHAUST. (PREVIOUSLY MOD REQUEST 0091)	DESCRIPTION: CLOSED W/E & R - MORE INFO AVAILABLE ON NRMS. PURPOSE:
0527	RM	TITLE: VENT STACK CONTINUOUS IODINE MONITORS MODIFICATION (PREVIOUSLY MOD REQUEST 0428)	DESCRIPTION: INSTALL CONTINUOUS IODINE MONITORS (EBERLINE 1M-1A) TO MONITOR EFFLUENT FLOW FROM REACTOR BLDG VENTILATION EXHAUST STACKS. MONITORS TO BE LOCATED ON 234' ELEV. PURPOSE: PROVIDE MORE TIMELY MEANS TO DETECT LEAKS AND EQUIP. FAILURES WHICH RESULT IN IODINE RELEASE TO ATMOS.
0503	RP	TITLE: REACTOR PROTECTION SYSTEM M/G SET UNDER VOLT TRIP	DESCRIPTION: CLOSED W/E&R - MORE INFO AVAILABLE ON NRMS PURPOSE:
0850	RP	TITLE: DIVERSE SCRAM DISCHARGE VOLUME LEVEL INSTRUMENTATION (IN NRMS SYS UNDER MOD#'S 81-043; 0850 & 0655).	DESCRIPTION: MOD REQUIRED TO RESOLVE ANTICIPATED TRANSIENT W/O SCRAM (ATWS) ISSUE @ PBAPS U 2/3. PURPOSE: SATISFY CRITERIA SPECIFIED BY NRC FOR ATWS ALTERNATIVE 3.
0947	RP	TITLE: Install Protect Panel On RPS M/G Set	DESCRIPTION: Protection panel will be provided on ea. of 2 RPS M/G set 120 VAC feed & also on alternate source. **This MOD closed and new MODS 1359 & 1916 are opened.**

MOD NUMBER	SYSTEM ID	MODIFICATION TITLE	MODIFICATION DESCRIPTION
		0120VAC Feeds.	PURPOSE: Provide 2 class 1E channels of overvoltage, undervolt & under freq. trip protect. to RPS M/G set.
1404	RP	TITLE: Low Vacuum Scram By-pass Interlocks Modification	DESCRIPTION: Remove reactor scram signal which occurs when RX pressure is above 600 PSIG in shutdown, RF or startup modes & either MSIV's are closed or main condensor vacuum is low. PURPOSE: Prevent unnecessary scram during extended turbine.
1565	RP	TITLE: Replace Agastat GP Series Relays W/EGP Series Relays. **See Also 1473.	DESCRIPTION: Replace normally energized safety related Agastat relays, GP series, w/EGP series relays in RPS, RHR & PCIS logic. PURPOSE: Relays at other plants have premature failures (GP series); these will be replaced with improved EGP series relays.
1916	RP	TITLE: Protection To Breaker Shunt Trip Coils In RPS Prot Ection Panels.	DESCRIPTION: When large motors are started the alternate feed trips on over voltage. MOD involves wiring the spare pole in series w/"A" switch & installing new lamp to verify continuity. It also involves installing seal-in contact for the alarm. PURPOSE: Eliminate breaker problems associated with over and under voltage problems.
R226	RP	TITLE: RPS ALTERNATE FEED TRANSFORMER 20X040	DESCRIPTION: REQUESTING MODIFICATION AS SECTION TO INSTALL THE 20X040 RPS ALTERNATE TRANSFORMER PURPOSE:
0637	RR	TITLE: PROVIDE A COMMON REFERENCE LEVEL FOR	DESCRIPTION: CLOSED W/E&R MORE INFO AVAILABLE ON NRMS.

MOD NUMBER	SYSTEM ID	MODIFICATION TITLE	MODIFICATION DESCRIPTION
		VESSEL LEVEL INSTRUMENTATION (NUREG 0737)	
0893B	RR	TITLE: Add RX Press Indication For Accident Monitoring.	DESCRIPTION: Install two classes 1E reactor pressure instrumentation channels (pres. trans. current to voltage converter, recorder). The recorder will be located on CO3 & CO4 panels. PURPOSE: Meet NRC Environmental Qualification for Instrumentation.
0925	RR	TITLE: Install Vibration Monitor. Instrumentation For Reactor Recirc Motor-Pump Set.	DESCRIPTION: Install vibration monitoring instrumentation for recirc motor-pump sets. This involves installation of vibration sensors & assoc. wiring for 2A, 2B, 3A, & 3B recirc motor-pump sets. PURPOSE: Provide means to effectively monitor movement of recirc motor-pump sets from control room.
1278	RR	TITLE: Remove/Replace recirc, RHR Shutdown, RHR Head Spray & RWCU Piping. (Removal of Testing Cable).	DESCRIPTION: Remove/replace both A & B loops of recirc piping, RHR shutdown, head spray piping, RWCU containment penetration & portion outside containment. **MOD 1367 was incorp into this MOD.** Removal of startup test wiring is planned to be done during the U2 87 refuel. PURPOSE: Remove 304 SS piping which is susceptible to IGSCC & replace it w/316 nuclear grade SS piping.
1352H	RR	TITLE: Provision For Process Monitoring Instrumentation.	DESCRIPTION: Provides process instrumentation from various processes necessary to assure alternative S/D. Indication for this instrum. will be @ the U/2 HPCI acs. RX water level & pres. D/W pres. & temp, CST water level, SP water level & temp, SRV temp. PURPOSE: Satisfy appendix R of 10CFR50/ensure safe shutdown in the event

MOD NUMBER	SYSTEM ID	MODIFICATION TITLE	MODIFICATION DESCRIPTION
			of a design basis fire.
83-041	RR	TITLE: Modification Of Recirculation Lube Oil Pump Logic.	DESCRIPTION: This modification will install a diode in series with contacts 5-6 of relay 2A-K31A. PURPOSE: Eliminate possibility of running recirc M/G set with low-low oil pressure.
86-030	RR	TITLE: Install Isolation Links For Recirc Seal Hi/Lo Flow Switch FS-2-26A&B.	DESCRIPTION: Provide solid isolation links to isolate each flow switch contact for the recirc seal hi/lo flow switch. PURPOSE: Allow convenient method of determining whether a high or low flow condition exists.
0423	RW	TITLE: INSTALL FLOOR DRAIN SUMPS AND PUMPS IN ALL RHR ROOMS	DESCRIPTION: MOD WILL INSTALL FLOOR DRAIN SUMPS/DRAINS IN ALL RHR RMS. PURPOSE: ROOMS ARE PRONE TO FLOODING. PRESENT DRAIN SYSTEM IS NOT ADEQUATE.
0021D	SW	TITLE: HIGH PRESSURE SERVICE WATER DISCHARGE VALVE CONTROL	DESCRIPTION: CONVENTIONAL VALVE CONTROL/THROTTLING OF THE HPSW DISCHARGE VALVES (MO-10-79A,B,C,D) WILL BE IMPLEMENTED UTILIZING HAND SWITCHES IN THE CONTROL ROOM THIS MODIFICATION CHANGES THE CIRCUIT TO AGREE W/PRESENT OPERATION OF THE PLANT. PURPOSE: CHANGE CIRCUIT TO AGREE W/THE WAY PLANT IS PRESENTLY BEING OPERATED.
1351D	SW	TITLE: Emerg Service Water Alternate Control Station(ACS)	DESCRIPTION: MOD establishes ACS for OAPO57 emergency servidewater (ESW) pump @ its 4KV circuit breaker compartment, 20A1603. Alternate control of the pump is necessary to supply cooling water to the diesel generators. In addition, circuit changes for both the OAPO57 and OBPO57 ESW pumps are necessary to prevent the spurious operation of pumps during fire. PURPOSE: Assure safe shutdown in the event

MOD NUMBER	SYSTEM ID	MODIFICATION TITLE	MODIFICATION DESCRIPTION
			of a design basis fire.
1352D	SW	TITLE: High Press Serv Water Alternative Control Station.	DESCRIPTION: Establish alternative control station for U/2 4KV emergency circuit breaker for U/2 "E" safeguard channel HPSW pump, 2BP42. This will be located at the 4KV emergency switchgear cubicle 20A1607. PURPOSE: Provide cooling water to RHR system/ensure safe shutdown in event of design basis fire.
5017	SW	TITLE: U/2/FSW Pumps-Backup Pump Start Logic Change.	DESCRIPTION: MOD is required to restore the standby automatic start feature of the ESW pump which was inadvertently removed by MOD 1351D. PURPOSE: Return to original design by reinstalling the auto start logic of the ESW pump.
0268	TC	TITLE: INSTALL BLOCK CIRCUITRY TO PREVENT POWER AND LOAD UNBALANCE DURING SHELL/CHEST WARMING.	DESCRIPTION: MOD WILL COMPLETE MOD 268 WORK FOR U/2. PURPOSE: COMPLETE WORK ON UNIT 2; THIS MOD WILL ELIMINATE THE NEED FOR OPERATORS TO VALVE OUT PT-2807.
1474	TC	TITLE: Remove Feedwtr/Cond en. Problem Initiate From EHC Run Back Logic.	DESCRIPTION: EE review the possibility of removing the runback logic in order to prevent a recurrence of the stator coolant system relay failure which resulted in a loss of U/3 on 02/09/84. PURPOSE: Prevent recurrence of stator coolant system failure.
1626	TC	TITLE: Install Blocking Circuitry To Prevent A Power Load	DESCRIPTION: MOD will install blocking circuitry to PT-2807 so that PT does not have to be manually isolated during shell warming operation. **This MOD represents completion of MOD 0268.**

MOD NUMBER	SYSTEM ID	MODIFICATION TITLE	MODIFICATION DESCRIPTION
		Unbalance During Turbine Shell Warning.	PURPOSE: Prevent power to load unbalance during turbine shell warming.
86-004	TC	TITLE: EHC Piping TIL-841-3A And P-Ports In The Fast Acting Solenoid Valves.	DESCRIPTION: U/2:change RETS & ETS branch lines to #4,5,6 CIV intercept valves and stop valves to 1" lines. U/3:same as above. Also, remove FJS from #2 stop and #1,3,5 CIV intercept and #1-4 CIV control valves. (incorporates unfinished parts of MOD 78-043) and P-Ports on all CV's and CIV's. PURPOSE: In response to TIL-841-3A.

PEACH BOTTOM ATOMIC POWER STATION
UNIT 2 SIMULATOR
MODIFICATIONS INSTALLED SINCE DELIVERY

The Modifications listed below were identified and installed on the Simulator since delivery (8/89). Data from these Modification is being incorporated into the Simulator Design Database. The W. O. Number is the CMS Work Order Number under which the applicable Modification was installed.

Page No. 1

01/29/91

MOD NUMBER	SYSTEM ID	MODIFICATION TITLE	MODIFICATION DESCRIPTION	DATE EVALUATED	W. O. NUMBER
0643	AN	TITLE: First-in alarm to control room annunciators . *First-in annunciators . (NUREG-0585)	DESCRIPTION: MOD eliminates/relocates/group s together on a "first alarm in" basis, selected annunciator alarms in main control room. ***Note: MOD req 643 dealt w/modifying solid doors at site to warn of imminent opening. The engr was P. Schuler and it is a closed request. PURPOSE: Aid control RM operator in diagnosis operational transients involving many alarms.	11/23/89	900166
2564	DG	TITLE: Load Sequencing ECCS - RFR & Core Spray	DESCRIPTION: Increase the starting time on 4 RHR pumps, 4 Core Spray pumps, 2 ESW pumps and 1 ECW pump for both units. New time settings will insure starting and acceleration of these PMPs with associated loads during a LOCA. PURPOSE: To avoid heavy loading & excessive voltage in associated busses prevent possible trips of PMPs & associated loads.	11/23/89	900094
2123	ED	TITLE: Perform Bus Load And Voltage Regulation Study.	DESCRIPTION: Install temporary cables, measuring instruments, isolation devices, and resistive loads to support the voltage study	11/23/89	900172

MOD NUMBER	SYSTEM ID	MODIFICATION TITLE	MODIFICATION DESCRIPTION	DATE EVALUATED	W. O. NUMBER
			<p>verification test SP-1169. Also includes transformer tap changes administrative controls, and changeout of some contractors. (Ref. MOD 5119)</p> <p>PURPOSE: To verify the computer model that was used to conduct the voltage regulation study.</p>		
5002	ED	<p>TITLE: Replacement of undervoltage relays and setpoint change.</p>	<p>DESCRIPTION: As a result of voltage regulation study, the 127Y undervoltage relays presently set at 90 +/- 2% will be changed to 89 +/- 0.3% In order to improve relay accuracy, the existing ITE-27D will be replaced with ITE-27N. Also replace existing 4KV bus voltage indicators with simular indicators that have a narrower indicating range.</p> <p>PURPOSE: To implement PB voltage regulation study.</p>	11/23/89	900184
88-036	MC	<p>TITLE: Replace TT/TI-0762Discharge canal temp. monitor.</p>	<p>DESCRIPTION: Replace TT-0762 with a Rochester model SC-1326W and TI-0762 with a GE model 180 (4-20MA).</p> <p>PURPOSE: Replace unreliable monitors with more reliable units.</p>	11/23/89	900169
2132	N/A	<p>TITLE: Human factor enhancements of cont. rm panels. See MOD 1091. (TMI lessons)</p>	<p>DESCRIPTION: This MOD will implement ergomatic changes to the control rm by (1)The re-arrangement of certain instruments and controls (2)Re-painting and labeling of control panels</p>	11/23/89	890125

MOD NUMBER	SYSTEM ID	MODIFICATION TITLE	MODIFICATION DESCRIPTION	DATE EVALUATED	W. O. NUMBER
			(3) Addition of manual initiation switches for all ECCS systems. (4) Addition of annunciator Matrix ID (5) Installation of a new multipoint temperature recorder. PURPOSE: Comply w/ Nureg-0700 THIS IS DONE EXCEPT FOR CHESSEL RECORDER (TR-89)		
5001	RC	TITLE: Removal Of The RCIC Electric Overspeed Device Per GE SIL-382.	DESCRIPTION: Remove the RCIC Turbine Electrical overspeed tripping device including associated cables and connections. PURPOSE: Electrical overspeed devices used at Peach Bottom are no longer manufactured and no Q replacements can be purchased.	12/05/89	900163
5011	RD	TITLE: ELIMINATION OF THE ROD SEQUENCE CONTROL SYSTEM. RSCS.	DESCRIPTION: ELIMINATION OF THE ROD SEQUENCE CONTROL SYSTEM (RSCS) PURPOSE: ELIMINATION OF THE RSCS WILL SPEED UP THE START-UP AND SHUT-DOWN ISSUED, CONC. TASK PLAN IN PROGRESS.	05/21/90	900769
2084	RH	TITLE: RHR minimum flow bypass valve MO-2-10-016D logic change from normally closed to normally open.	DESCRIPTION: This MOD incorporates an interim fix to change MO-2-10-016D from normally closed to normally open. The valve can only be closed if one of the following conditions exists: (1) RHR pump flow above setpoint. (2) Valve MO-2-10-17 open. (3) Manually closing by the operator. **The permanent correction of this valve will be done	11/23/89	900171

MOD NUMBER	SYSTEM ID	MODIFICATION TITLE	MODIFICATION DESCRIPTION	DATE EVALUATED	W. O. NUMBER
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under MOD 2285.

PURPOSE: To prevent this valve from failing in the closed position as a result of an appendix R fire.

0865	RP	TITLE: Alternate Rod Insertion (ARI) System.	DESCRIPTION: Add ARI System consisting of the initiation logic and valves in the scram pilot valve air header that will initiate control rod insertion on low reactor water level or high pressure or manually. It will be powered from A 125V DC power source and initiate on energize. PURPOSE: Meet final ATWS rule (10CFR50.62).	11/23/89	900168
457	RR	TITLE: Reactor Water Level Instrument Improvements	DESCRIPTION: Mod will remove existing Yarway level columns and replace W/A new pressure compensated level indicating system. The lines will be re-routed through different penetrations. The elevation drop inside of the drywell will be kept to a minimum to reduce the effects of high D/W temp. 4 channels will feed a microprocessor which initiates level trips. PURPOSE: Remove temp. effects of a high drywell temp. on level measurements during a DBA.	11/23/89	900167
0867	SL	TITLE: MOD for standby liquid control capacity	DESCRIPTION: MOD will give SBLC minimum flow capacity/baron concentration equivalent in cotrol capacity to	11/23/89	900136

MOD NUMBER	SYSTEM ID	MODIFICATION TITLE	MODIFICATION DESCRIPTION	DATE EVALUATED	W. O. NUMBER
		increase. Relates to NRC info notice 86-48 W/D.OLTMANS.	86gpm of 13 weight percent Sodium Pentaborate Solution. E&R chose to double current amount of Baron-10 in Solution. PURPOSE: Meet final ATWS rule (10CFR50.62).		
1029E	SW	TITLE: MOD for various instruementa tion for safe shutdown.	DESCRIPTION: Installation of a cst water level transmitter, a HPSW pressure transmitter, & a ESW pressure transmitter, on 3/4" vent lines. Keylock switches for alter power source transfer SW and CR annunciator for out of normal will be provided. **New YARWAY instrument to be installed temporarily by 12/26 **To measure reactor water level PURPOSE: Meet NRC append R requirements.	11/23/89	900165
2560	SW	TITLE: Trip Cooling Tower Loads On Loca.	DESCRIPTION: Presently cooling tower pumps and fans are shed on a unit trip. In this MOD loca signals from either U/2 or U/3 will trip cooling tower pumps and fans until station personnel manually restarts pumps and fans after the loca signal is reset. PURPOSE: To implement voltage regulation modification.	11/23/89	900096
5157	SW	TITLE: Relocate 2A RBCCW pump motor feed from MCC	DESCRIPTION: Rerout the power feed and associated control wiring for the 2A RBCCW pump from the MCC 20B27.	11/23/89	900162

MOD NUMBER	SYSTEM ID	MODIFICATION TITLE	MODIFICATION DESCRIPTION	DATE EVALUATED	W. O. NUMBER
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20B36 to MCC
20B27.

PURPOSE: Relieve B DG
overloading.

5085

TC

TITLE:
Turbine Stop
Valve And
Control
Valve Fast
Closure.

DESCRIPTION: Change TSV
closure and control valve
fast closure scram bypass
setpoint to 135 PSIG and
change RSCS bypass
setpoint to 115 PSIG.

11/23/89

900095

PURPOSE: To minimize the
temp & press. transients
which occur upon a loss of
turb. when operating pwr
lvl greater than 30% RX
pwr.

PEACH BOTTOM ATOMIC POWER STATION
UNIT 2 SIMULATOR
MODIFICATION CURRENTLY BEING INSTALLED

The Modifications listed below are currently being installed on the Simulator under the CMS Work Order Number referenced.

Page No. 1

01/29/91

MOD NUMBER	SYSTEM ID	MODIFICATION TITLE	MODIFICATION DESCRIPTION	DATE EVALUATED	W. O. NUMBER
0477	CU	TITLE: Installation of vibration monitor instrumentat ion.	DESCRIPTION: Install vibration monitoring instrumentation of RX water cleanup pumps to provide run out protection. PURPOSE: Improve reliability of RWCU pumps.	11/23/89	900237
2006	PC	TITLE: Drywell Temperature Indication Replacement.	DESCRIPTION: Temperature instrumentation TI-2501, TI-3501 will be replaced with new indicators. Range will be from 40F-440F. MOD 494 replaces PR/TR 4805 and changes the range on the indicators. If this MOD is done on Unit 3 this outage, MOD 494 will just replace the recorders. PURPOSE: Meet range requirements/replace outdated instruments.	11/23/89	890133
1982	RR	TITLE: Reactor Coolant Pump Shaft Fail-Ifno Notice 86-19	DESCRIPTION: Provide notification of failure of reactor coolant pump shafts mfg by Byron-Jackson. Mod. includes purchase of reactor coolant pump shafts. PURPOSE: Determine what actions should be taken to minimize chance of failure at Peach Bottom.	11/23/89	890126
0955E	YC	TITLE: PMS Unit 2 New Points/Class	DESCRIPTION: Installation of Unit 2 new points, analog and digital, that	12/05/89	890121

MOD NUMBER	SYSTEM ID	MODIFICATION TITLE	MODIFICATION DESCRIPTION	DATE EVALUATED	W. O. NUMBER
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1E
Multiplexer.

can be installed
non-outage, including
conduit, raceway, cables,
cable terminations and
Unit 2 class 1E
multiplexer cabinets.

PURPOSE: See MOD 955.

NOTE: This portion of the
Process Computer Mod. also
installs 3 new temperature
recorders. The priority
assigned is to allow for
early hardware acquisition.
Software implementation as
necessary should be done
with the Process Computer
Mod.

PEACH BOTTOM ATOMIC POWER STATION UNIT 2
SIMULATOR
SIMULATOR PERFORMANCE TESTS REPORT

The Simulator Performance Tests are grouped into four categories:

- SCPT, Simulator Computer Performance Tests
- SSPT, Simulator Steady-State and Normal Operation Tests
- SMPT, Simulator Malfunction Performance Tests
- STPT and SMPTT, Simulator Transient Performance Tests

The tests required to demonstrate acceptable Simulator Performance are identified, prepared, and tested against the Acceptance Criteria developed in the Simulator Certification Procedure. The listing below tabulates all the Simulator Performance Tests performed for Simulator Certification. Those tests with results found unsatisfactory when judged against the Acceptance Criteria are listed at the end of the report; the assigned CMS Work Order Number(s) and Priority are included.

Page No. 1

01/29/91

PERFORMANCE TEST	PERFORMANCE TEST TITLE	TEST REVISION NUMBER	DATE OF LAST TEST	RESULTS OF TEST	WORK ORDER NUMBER/PRIORITY
SCPT-RT001	SIMULATOR COMPUTER REAL TIME TEST		01/05/91	S	
SMPT-ADSD1	ADS CHANNEL FAILS TO INITIATE	1	09/14/90	S	
SMPT-ANN03	ANNUNCIATOR CRY WOLF (CWA), DEFEAT (DWA)	0	09/19/90	S	
SMPT-APR01	APRM CHANNEL FAILS UPSCALE	2	09/19/90	S	
SMPT-APR02	APRM CHANNEL FAILS DOWNSCALE	2	09/19/90	S	
SMPT-APR03	APRM CHANNEL FAILS INOP	1	09/19/90	S	
SMPT-APR05	APRM FAILS TO TRIP DOWNSCALE	1	09/19/90	S	
SMPT-APR06	A' IM FAILS TO TRIP INOPERATIVE	2	09/19/90	S	
SMPT-APR07	APRM FAILS TO TRIP UPSCALE (HI)	1	09/19/90	S	
SMPT-APR08	APRM FAILS TO TRIP UPSCALE HI HI	2	09/19/90	S	
SMPT-AR1141	AR. ISOLATION/EXHAUST VALVE 141 FAILURE	1	01/15/91	S	
SMPT-AR1142	ARI EXHAUST VALVE 142 FAILURE	1	01/15/91	S	
SMPT-AR1F2	ARI POWER SUPPLY FAILURE	1	01/15/91	S	

PERFORMANCE TEST	PERFORMANCE TEST TITLE	TEST REVISION NUMBER	DATE OF LAST TEST	RESULTS OF TEST	WORK ORDER NUMBER/PRIORITY
SMPT-ARM01	ARM CHANNEL FAILS UPSCALE	0	09/19/90	S	
SMPT-ARM02	ARM CHANNEL FAILS DOWNSCALE	0	09/19/90	S	
SMPT-ARM03	ARM CHANNEL FAILS INOP	0	09/19/90	S	
SMPT-CARD1	MAIN CONDENSER AIR IN LEAKAGE	2	09/17/90	S	
SMPT-CARD2	SJAE STEAM SUPPLY VALVE FAILS CLOSED	2	09/20/90	S	
SMPT-CAS02	INSTRUMENT NITROGEN RECEIVER LEAK	2	09/19/90	S	
SMPT-CRH02	CRD DRIVE WATER FILTER CLOGGING	1	09/19/90	S	
SMPT-CRH03	CRD HYDRAULIC PUMP TRIP	2	09/19/90	S	
SMPT-CRH08	SCRAM DISCHARGE VOLUME LEVEL HIGH		09/09/90	S	
SMPT-CRH09	SCRAM DISCHARGE VENT VALVE FAILS OPEN	1	09/19/90	S	
SMPT-CRH10	SCRAM DISCHARGE VOLUME VENT VALVE FAILS CLOSED	2	09/19/90	S	
SMPT-CRH11	SCRAM DISCHARGE VOLUME DRAIN VALVE FAILS OPEN	1	09/23/90	S	
SMPT-CRH12	SCRAM DISCHARGE VOLUME DRAIN VALVE FAILS CLOSED	2	09/23/90	S	
SMPT-CRH13	CONTROL ROD GROUP FAILS TO SCRAM	2	09/23/90	S	
SMPT-CRM01	CONTROL ROD DRIFTS OUT	2	09/10/90	S	
SMPT-CRM02	CONTROL ROD BLADE STUCK	1	09/10/90	S	
SMPT-CRM03	CONTROL ROD UNCOUPLED	2	09/10/90	S	
SMPT-CRM05	CONTROL ROD SLOW SCRAM TIME	2	09/23/90	S	
SMPT-CSS02	CORE SPRAY INJECTION VALVE FAILS TO AUTO OPEN	1	09/23/90	S	
SMPT-CWS01	LOSS OF CONOWINGO POND	2	08/24/90	S	
SMPT-CWS04	COOLING TOWER LIFT PUMP TRIP	2	09/23/90	S	

PERFORMANCE TEST	PERFORMANCE TEST TITLE	TEST REVISION NUMBER	DATE OF LAST TEST	RESULTS OF TEST	WORK ORDER NUMBER/ PRIORITY
SMPT-DCDD1A	250 VDC DISTRIBUTION PANEL 20D12 FAULT		10/18/90	S	
SMPT-DCDD1C	250 VDC DIST. PANEL 20D07 FAULT	2	10/24/90	S	
SMPT-DCDD1E	250 VDC DIST. PANEL 20D05 FAULT		10/18/90	S	
SMPT-DCDD3B	24 VDC DISTRIBUTION PANEL BUS 2F FAULT	1	10/22/90	S	
SMPT-DCW02	DW CHILLED WATER CHILLER TRIP	2	09/25/90	S	
SMPT-DCW03	DWCW/RBCW AUTO SWAPOVER FAILURE	2	09/25/90	S	
SMPT-DGAD1	DIESEL GENERATOR FAILS TO START	1	09/25/90	S	
SMPT-DGAD2	DIESEL GENERATOR BREAKER AUTO CLOSE FAILURE	2	09/25/90	S	
SMPT-ECW01	ECW PUMP TRIP	2	09/25/90	S	
SMPT-ECW02	ECW COOLING FAN TRIP	2	09/25/90	S	
SMPT-EHH01	BYPASS VALVE FAILS OPEN	2	09/25/90	S	
SMPT-EHH02	BYPASS VALVE FAILS CLOSED	2	09/25/90	S	
SMPT-EHHC5	BYPASS VALVE STICKS OPEN	2	09/25/90	S	
SMPT-EHH04	EHC HYDRAULIC PUMP TRIP	1	09/25/90	S	
SMPT-EHL01	PRESSURE REGULATOR FAILS HIGH		09/09/90	S	
SMPT-EHL03	PRESSURE REGULATOR OSCILLATION	2	09/25/90	S	
SMPT-EHL04	MAIN TURBINE ACCELERATION RELAY FAILURE	1	09/25/90	S	
SMPT-EF001	LOSS OF EXTRACTION/ STEAM TO FW HEATER	2	09/17/90	S	
SMPT-ESD02	FW HEATER LEVEL CONTROL VALVE FAILS OPEN	2	09/25/90	S	
SMPT-ESD04	MOISTURE SEPERATOR DRAIN TANK LEVEL CONTROL VALVE FAILS CLOSED	2	09/25/90	S	

PERFORMANCE TEST	PERFORMANCE TEST TITLE	TEST REVISION NUMBER	DATE OF LAST TEST	RESULTS OF TEST	WORK ORDER NUMBER/ PRIORITY
SMPT-FCR02	INCREASED CONTROL ROD WGRTH	1	09/26/90	S	
SMPT-FWC01	RFP M/A CONTROLLER FAILURE	1	09/26/90	S	
SMPT-FWC03	RFP MASTER CONTROLLER OSCILLATION	2	09/26/90	S	
SMPT-FWC04	FW FLOW TRANSMITTER FT-50 FAILURE	2	09/17/90	S	
SMPT-FWC05	FW TEMP TRANSMITTER TT-80 FAILURE	2	09/26/90	S	
SMPT-FWC06	FW TEMP TRANSMITTER TT-168 FAILURE	1	09/26/90	S	
SMPT-FWC08	FEEDWATER PUMP MGU 120 VAC POWER LOSS	2	09/26/90	S	
SMPT-FWC09	STARTUP FW REG VALVE CONTROLLER FAILURE	2	09/26/90	S	
SMPT-FWC10	STARTUP FW REG VALVE CONTROLLER OSCILLATION	1	09/26/90	S	
SMPT-HPC01	FAILURE OF HPCI TO AUTO START	1	09/27/90	S	
SMPT-HPC02	HPCI SPURIOUS AUTO START	1	09/27/90	S	
SMPT-HPC04	HPCI FLOW CONTROLLER FAILS LOW	1	09/27/90	S	
SMPT-HPC05	HPCI FLOW CONTROLLER FAILS HIGH	1	09/27/90	S	
SMPT-HPC06	HPCI FLOW CONTROLLER OSCILLATION	2	09/27/90	S	
SMPT-HPC07	HPCI STEAM SUPPLY LINE BREAK	2	09/27/90	S	
SMPT-HPC08	HPCI PUMP DISCH LINE BREAK	2	09/27/90	S	
SMPT-HPW01	HPSW PUMP TRIP	2	09/27/90	S	
SMPT-IRM01	IRM CHANNEL FAILS UPSCALE	2	10/01/90	S	
SMPT-IRM02	IRM CHANNEL FAILS DOWNSCALE	2	10/01/90	S	
SMPT-IRM03	IRM CHANNEL FAILS INOP	1	10/01/90	S	
SMPT-IRM04	IRM CHANNEL DETECTOR BRUCK	1	10/01/90	S	

PERFORMANCE TEST	PERFORMANCE TEST TITLE	TEST REVISION NUMBER	DATE OF LAST TEST	RESULTS OF TEST	WORK ORDER NUMBER/PRIORITY
SMPT-IRM05	IRM CHANNEL FAILS TO TRIP INOP	2	10/01/90	S	
SMPT-IRM06	IRM CHANNEL FAILS TO TRIP DOWNSCALE	2	10/01/90	S	
SMPT-IRM07	IRM CHANNEL FAILS TO TRIP UPSCALE HI	2	10/01/90	S	
SMPT-IRM08	IRM CHANNEL FAILS TO TRIP UPSCALE (HI HI)	2	10/01/90	S	
SMPT-LPR01	LPRM FAILS UPSCALE	2	10/01/90	S	
SMPT-LPR02	LPRM FAILS DOWNSCALE	2	10/01/90	S	
SMPT-MAP01	MAIN TRANSFORMER COOLING LOSS	2	10/01/90	S	
SMPT-MAP02	LOSS OFF-SITE POWER SOURCES	2	08/24/90	S	
SMPT-MAP03	500 KV CONTROL AIR FAILURE	2	10/02/90	S	
SMPT-MAP09	13.2 KV BUS AUTO TRANSFER FAILURE	2	08/23/90	S	
SMPT-MCS02	HOTWELL LEVEL TRANSMITTER FAILS HIGH	2	10/02/90	S	
SMPT-MCS04	HOTWELL LEVEL TRANSMITTER FAILS AS IS	2	10/02/90	S	
SMPT-MCS05	CONDENSATE PUMP TRIP	1	10/02/90	S	
SMPT-MFS01	REACTOR FEEDWATER PUMP TRIP	1	10/03/90	S	
SMPT-MFS02	REACTOR FEEDWATER PUMP HIGH VIBRATION	1	10/05/90	S	
SMPT-MFS04	REACTOR FEEDWATER PUMP MINIMUM FLOW VALVE FAILS OPEN	2	09/05/90	S	
SMPT-MFS06	FEEDWATER HEATER TUBE LEAK	2	10/03/90	S	
SMPT-MFS07	LOSS OF AIR TO RFP C DISCHARGE BYPASS VALVE	2	10/03/90	S	
SMPT-MFS08	LOSS OF AIR TO RFP BYPASS VALVE CV-2558	2	10/03/90	S	
SMPT-MGA01	MAIN GENERATOR TRIP	2	10/03/90	S	
SMPT-MGA02	VOLTAGE REGULATOR FAILS HIGH	2	10/03/90	S	

PERFORMANCE TEST	PERFORMANCE TEST TITLE	TEST REVISION NUMBER	DATE OF LAST TEST	RESULTS OF TEST	WORK ORDER NUMBER/PRIORITY
SMPT-MGA03	VOLTAGE REGULATOR FAILS LOW	2	10/03/90	S	
SMPT-MGA04	VOLTAGE REGULATOR TRANSFERS TO MANUAL	1	10/03/90	S	
SMPT-MGA05	GENERATOR FIELD BREAKER FAILS OPEN	1	10/03/90	S	
SMPT-MGA06	GENERATOR FIELD BREAKER FAILS TO CLOSE	1	10/03/90	S	
SMPT-MGA07	MAIN GENERATOR HYDROGEN LEAK	1	10/03/90	S	
SMPT-MLO02	MAIN SHAFT OIL PUMP FAILURE	2	10/03/90	S	
SMPT-MSS01	STEAM LEAKAGE INSIDE THE PRIMARY CONTAINMENT	2	10/03/90	S	
SMPT-MSS07	MSIV SLOW CLOSURE TIME	1	10/04/90	S	
SMPT-MSS08	REACTOR PRESSURE RELIEF VALVE FAILURE	2	09/17/90	S	
SMPT-MSS09	REACTOR PRESSURE RELIEF VALVE STICKS OPEN	1	10/04/90	S	
SMPT-MSS10	STEAM LEAKAGE IN THE STEAM TUNNEL	1	09/20/90	S	
SMPT-MSS11	MSL FLOW TRANSMITTER FT-6-51 FAILURE	2	09/17/90	S	
SMPT-MSS12	MSL PRESSURE TRANSMITTER PT-6-60 FAILURE	1	10/04/90	S	
SMPT-MTA02	MAIN TURBINE BEARING HIGH VIBRATION	1	10/04/90	S	
SMPT-MTA04	MAIN TURBINE TRIP	2	10/04/90	S	
SMPT-MTA05	STEAM SEAL REGULATOR FAILS OPEN	2	10/04/90	S	
SMPT-MTA06	STEAM SEAL REGULATOR FAILS CLOSED	1	10/04/90	S	
SMPT-MTA07	TURBINE LP VALVE FAILS CLOSED	1	10/04/90	S	
SMPT-OGR01	EXPLOSION IN THE OFF GAS PIPING	1	10/09/90	S	

PERFORMANCE TEST	PERFORMANCE TEST TITLE	TEST REVISION NUMBER	DATE OF LAST TEST	RESULTS OF TEST	WORK ORDER NUMBER/PRIORITY
SMPT-OGR02	WATER IN THE OFF GAS PIPING	1	10/04/90	S	
SMPT-OGR03	OFF GAS CONDENSER LEVEL HIGH	2	10/04/90	S	
SMPT-PC101	GROUP ISOLATION VALVE ISOLATION FAILURE	2	10/09/90	S	
SMPT-PC102	PCIS VENT TRIP COIL FAILURE	2	10/09/90	S	
SMPT-PCS01	COOLANT LEAKAGE INSIDE THE PRIMARY CONTAINMENT	1	10/04/90	S	
SMPT-PCS03	TORUS-DRYWELL VACUUM BREAKER FAILS OPEN	2	10/04/90	S	
SMPT-PPC01	PLANT PROCESS COMPUTER FAILURE	1	10/09/90	S	
SMPT-PRM01	PRM CHANNEL FAILS UPSCALE	1	10/09/90	S	
SMPT-PRM02	PRM CHANNEL FAILS DOWNSCALE	1	10/09/90	S	
SMPT-PRM03	PRM CHANNEL FAILS INOP	1	10/09/90	S	
SMPT-RBM01	RBM CHANNEL FAIL UPSCALE	2	10/09/90	S	
SMPT-RBM02	RBM CHANNEL FAILS DOWNSCALE	2	10/09/90	S	
SMPT-RBM03	RBM CHANNEL FAILS INOP	2	10/09/90	S	
SMPT-RBW01	RBCCW PUMP TRIP	2	09/10/90	S	
SMPT-RBW05	RBCCW/TBCCW AUTO SWAPOVER FAILURE	1	10/10/90	S	
SMPT-RC102	RCIC FAILS TO AUTO START	2	10/10/90	S	
SMPT-RC103	RCIC TURBINE TRIP	1	10/10/90	S	
SMPT-RC104	RCIC FLOW CONTROLLER AUTO CIRCUIT FAILS LOW	1	11/14/90	S	
SMPT-RC106	RCIC FLOW CONTROLLER OSCILLATION	1	10/10/90	S	
SMPT-RFC01	RECIRC MG FLOW CONTROLLER FAILS UPSCALE	2	10/10/90	S	
SMPT-RFC02	RECIRC MG FLOW CONTROLLER FAILS DOWNSCALE	2	10/10/90	S	
SMPT-RFC03	RECIRC MG FLOW CONTROLLER FAILS AS IS	2	10/10/90	S	

PERFORMANCE TEST	PERFORMANCE TEST TITLE	TEST REVISION NUMBER	DATE OF LAST TEST	RESULTS OF TEST	WORK ORDER NUMBER/PRIORITY
SMPT-RFC04	RECIRC MG FLOW CONTROLLER OSCILLATION	2	10/10/90	S	
SMPT-RFC05	RECIRC MASTER CONTROLLER FAILURE	2	10/10/90	S	
SMPT-RHR03	LPCI INJECTION VALVE FAILS CLOSED	2	10/10/90	S	
SMPT-RHR04	RHR PUMP DISCHARGE LINE BREAK	2	10/10/90	S	
SMPT-RMC01	RPIS TOTAL FAILURE	2	10/10/90	S	
SMPT-RMC02	ROD DRIVE CONTROL TIMER MALFUNCTION	1	10/12/90	S	
SMPT-RPS01	CONTROL ROD SCRAMS	2	10/10/90	S	
SMPT-RPS02	RPS MG OUTPUT BREAKER TRIP	2	09/23/90	S	
SMPT-RPS03	SPURIOUS SCRAM	2	10/11/90	S	
SMPT-R 04	CONTROL ROD GROUP POWER FUSE FAILURE	2	10/11/90	S	
SMPT-RPS05	RPS AUTOMATIC SCRAM CIRCUIT FAILURE	1	10/11/90	S	
SMPT-RPS06	CONTROL ROD FAILS TO SCRAM	1	10/11/90	S	
SMPT-RRS01	RECIRC PUMP DISCHARGE VALVE FAILURE		10/11/90	S	
SMPT-RRS02	RECIRC FLOW UNIT FAILS UPSCALE	2	10/11/90	S	
SMPT-RRS03	RECIRC FLOW UNIT FAILS DOWNSCALE	2	10/11/90	S	
SMPT-RRS04	RECIRC FLOW UNIT FAILS INOP	2	10/11/90	S	
SMPT-RRS05	RECIRC FLOW UNIT COMPARATOR FAILURE	1	10/11/90	S	
SMPT-RRS07	RECIRC PUMP SHAFT SEIZURE	2	10/11/90	S	
SMPT-RRS10	RECIRC MG INCOMPLETE START SEQUENCE	1	10/12/90	S	
SMPT-RRS12	RECIRC PUMP SPEED FEEDBACK SIGNAL FAILURE		10/11/90	S	

PERFORMANCE TEST	PERFORMANCE TEST TITLE	TEST REVISION NUMBER	DATE OF LAST TEST	RESULTS OF TEST	WORK ORDER NUMBER/PRIORITY
SMPT-RRS13	RECIRC PUMP #1 SEAL FAILURE	1	10/11/90	S	
SMPT-RRS14	RECIRC PUMP #2 SEAL FAILURE	2	10/12/90	S	
SMPT-RRS15	RECIRC PUMP RBCCW FLOW LOSS	1	10/12/90	S	
SMPT-RRS16	RECIRC PUMP DW CHILLED WATER FLOW LOSS	2	10/12/90	S	
SMPT-RRS18	RECIRC LOOP FLOW TRANSMITTER FAILURE	1	10/12/90	S	
SMPT-RV101	REACTOR LEVEL TRANSMITTER LT-72 FAILURE	3	10/12/90	S	
SMPT-RV102	REACTOR LEVEL TRANSMITTER LT-6-52 FAILURE		10/15/90	S	
SMPT-RV103	REACTOR LEVEL TRANSMITTER LT-73 FAILURE		10/16/90	S	
SMPT-RV104	RVP PRESSURE TRANSMITTER PT-6-53 FAILURE	2	10/16/90	S	
SMPT-RV105	RVP PRESSURE TRANSMITTER PT-55 FAILURE	2	10/16/90	S	
SMPT-RV106	RVP PRESSURE TRANSMITTER PT-404 FAILURE		10/16/90	S	
SMPT-RV107	RVP PRESSURE TRANSMITTER PT-6-105 FAILURE	1	10/16/90	S	
SMPT-RV109	REFERENCE LINE BREAK-NARROW RANGE LEVEL		10/16/90	S	
SMPT-RV110	REFERENCE LINE BREAK-REFUEL RANGE LEVEL	2	10/16/90	S	
SMPT-RV111	SENSING LINE BREAK-NARROW RANGE LEVEL		10/17/90	S	
SMPT-RV112	SENSING LINE BREAK-WIDE RANGE LEVEL		10/17/90	S	
SMPT-RV113	SENSING LINE BREAK-ACTIVE CORE LEVEL	3	10/16/90	S	
SMPT-RWC01	RWCU PUMP TRIP	2	10/12/90	S	
SMPT-RWC03	RWCU FILTER DENTIN CLOGGING	1	10/12/90	S	

PERFORMANCE TEST	PERFORMANCE TEST TITLE	TEST REVISION NUMBER	DATE OF LAST TEST	RESULTS OF TEST	WORK ORDER NUMBER/PRIORITY
SMPT-RWC04	RWCU RESIN DEPLETION	1	10/12/90	S	
SMPT-RWC05	RWCU DRAIN FLOW CONTROL VALVE FAILURE	2	10/12/90	S	
SMPT-SGT01	STANDBY GAS FAILS TO AUTO INITIATE	1	10/15/90	S	
SMPT-SLC01	STANDBY LIQUID PUMP TRIP	1	10/15/90	S	
SMPT-SLC02	SQUIB VALVES FAIL TO FIRE	2	10/15/90	S	
SMPT-SRM01	SRM CHANNEL FAILS UPSCALE	2	10/12/90	S	
SMPT-SRM02	SRM CHANNEL FAILS DOWNSCALE	2	10/12/90	S	
SMPT-SRM03	SRM CHANNEL FAILS INOP	2	10/12/90	S	
SMPT-SRM04	SRM CHANNEL DETECTOR STUCK	2	10/12/90	S	
SMPT-SRM05	SRM CHANNEL TTRACT PERMIT FAILURE	1	10/12/90	S	
SMPT-SRM06	SRM CHANNEL FAILS TO TRIP INOP	2	10/12/90	S	
SMPT-SRM07	SRM CHANNEL FAILS TO TRIP DOWNSCALE	2	10/12/90	S	
SMPT-SRM08	SRM CHANNEL FAILS TO TRIP UPSCALE (HI)	2	10/12/90	S	
SMPT-SRM09	SRM CHANNEL FAILS TO TRIP UPSCALE (HI HI)	2	10/12/90	S	
SMPT-SWS01	SERVICE WATER PUMP TRIP	1	10/15/90	S	
SMPT-TBW03	TBCCW HEAT EXCHANGER SERVICE WATER BLOCKAGE		10/17/90	S	
SMPT-VAC03A	480 VAC MCC AS-4-A1 FAULT	2	10/30/90	S	
SMPT-VAC03A1	480 VAC MCC 3PS4-W-C FAULT	2	10/30/90	S	
SMPT-VAC03B	480 VAC MCC AS4-S-A2 FAULT	2	10/30/90	S	
SMPT-VAC03B1	480 VAC MCC 3PS4-F-B FAULT	2	10/30/90	S	
SMPT-VAC03C	480 VAC MCC AS4-S-A FAULT	2	10/30/90	S	
SMPT-VAC03CC	480 VAC MCC 1R4-R-3 FAULT	2	10/30/90	S	

PERFORMANCE TEST	PERFORMANCE TEST TITLE	TEST REVISION NUMBER	DATE OF LAST TEST	RESULTS OF TEST	WORK ORDER NUMBER/PRIORITY
SMPT-VAC03D	480 VAC MCC B54-S-A1 FAULT	2	10/30/90	S	
SMPT-VAC03E	480 VAC MCC B54-S-A21 FAULT	2	10/30/90	S	
SMPT-VAC03E1	480 VAC MCC 4P54-W-B FAULT	2	10/30/90	S	
SMPT-VAC03EE	480 VAC MCC 2R4-R-B FAULT	2	10/30/90	S	
SMPT-VAC03F	480 VAC MCC B54-C-A FAULT	2	10/30/90	S	
SMPT-VAC03FF	480 VAC MCC 2R4-T-A FAULT	2	10/30/90	S	
SMPT-VAC03G	480 VAC MCC B24-C-A FAULT	2	10/30/90	S	
SMPT-VAC03G1	480 VAC MCC 4P54-F-B FAULT	2	10/30/90	S	
SMPT-VAC03GG	480 VAC MCC 1G4-T-D FAULT	2	10/30/90	S	
SMPT-VAC03H	480 VAC MCC B34-C-A FAULT	2	10/30/90	S	
SMPT-VAC03H1	480 VAC MCC E13A4-EC-A FAULT	2	10/25/90	S	
SMPT-VAC03HH	480 VAC MCC 1G4-P-A FAULT	2	10/30/90	S	
SMPT-VAC03I1	480 VAC MCC E23A4-EC-A FAULT	2	10/25/90	S	
SMPT-VAC03I1	480 VAC MCC 1G4-G-B FAULT	2	10/30/90	S	
SMPT-VAC03J1	480 VAC MCC E43A4-EC-A FAULT	2	10/25/90	S	
SMPT-VAC03JJ	480 VAC MCC 1G4-T-A FAULT	2	10/30/90	S	
SMPT-VAC03KK	480 VAC MCC 2G4-R-D FAULT	2	10/30/90	S	
SMPT-VAC03L	480 VAC MCC E124-D-A FAULT	2	10/23/90	S	
SMPT-VAC03LL	480 VAC MCC 2G4-T-A FAULT	2	10/30/90	S	
SMPT-VAC03M	480 VAC MCC E124-P-A FAULT	2	10/23/90	S	
SMPT-VAC03MM	480 VAC MCC 2G4-G-B FAULT	2	10/30/90	S	
SMPT-VAC03NN	480 VAC MCC 2G4-P-A FAULT	2	10/30/90	S	
SMPT-VAC03OO	480 VAC MCC 1T4-T-C FAULT	2	10/30/90	S	
SMPT-VAC03P	480 VAC MCC E224-T-B FAULT	2	10/23/90	S	
SMPT-VAC03Q	480 VAC MCC E234-D-A FAULT	2	10/23/90	S	
SMPT-VAC03QQ	480 VAC MCC 2T4-T-C FAULT	2	10/30/90	S	

PERFORMANCE TEST	PERFORMANCE TEST TITLE	TEST REVISION NUMBER	DATE OF LAST TEST	RESULTS OF TEST	WORK ORDER NUMBER/ PRIORITY
SMPT-VAC03RR	480 VAC MCC 214-T-B FAULT	2	10/30/90	S	
SMPT-VAC03BB	480 VAC MCC 2PS4-F-B FAULT	2	10/30/90	S	
SMPT-VAC03T	480 VAC MCC E324-R-O FAULT	2	10/24/90	S	
SMPT-VAC03TT	480 VAC MCC 2PS4-U-C FAULT	2	10/30/90	S	
SMPT-VAC03U	480 VAC MCC E324-D-A FAULT	2	10/24/90	S	
SMPT-VAC03UU	480 VAC MCC 2PS4-W-B FAULT	2	10/30/90	S	
SMPT-VAC03W	480 VAC MCC E324-D-A FAULT	2	10/24/90	S	
SMPT-VAC03WW	480 VAC MCC 1PS4-W-C FAULT	2	10/30/90	S	
SMPT-VAC03XX	480 VAC MCC 1PS4-C-B FAULT	2	10/30/90	S	
SMPT-VAC03YY	480 VAC MCC 1PS4-M-A FAULT	2	10/30/90	S	
SMPT-VAC03Z	480 VAC MCC E424-D-A FAULT	2	10/25/90	S	
SMPT-VAC03Z2	480 VAC MCC 3PS4-O-S FAULT	2	10/30/90	S	
SSPT-AO-12.1	PLACING THE RWCU SYS IN SRVC & OUT OF SRVC LOG DTGS WHEN THE "B" FW LP IS BLCKD	1	09/05/90	S	
SSPT-AO-16A.1-2	POST MAINTENANCE FILLING OF THE BACKUP INSTRUMENT NITROGEN TO ADS SYSTEM	1	08/30/90	S	
SSPT-AO-28B.1	COOLING TOWER STARTUP TO SUPPORT PLANT OEPARATION WITH ONE OFF-SITE POWER SOURCE	0	08/22/90	S	
SSPT-AO-2A.1-2	RECIRCULATION SYSTEM SINGLE LOOP OPERATION	1	08/02/90	S	
SSPT-AO-2A.2-2	USE OF RECIRCULATION SYSTEM MASTER M/A CONTROL STATION	0	08/02/90	S	
SSPT-AO-40S.1.2	RAISING MAIN STEAM LINE TUNNEL PCIS GROUP 1 HIGH TEMP. TRIP SETPOINT	2	09/06/90	S	
SSPT-AO-44A.1-2	LOSS OF POWER TO TWO 480 VOLT DRYWELL CHILLER BUSES & AUTO TRANSFER LO RBCCW	0	09/06/90	S	
SSPT-AO-44A.2-2	RESTORATION OF THE DRYWELL CHILLED WATER SYSTEM FOLLOWING	0	09/06/90	S	

PERFORMANCE TEST	PERFORMANCE TEST TITLE	TEST REVISION NUMBER	DATE OF LAST TEST	RESULTS OF TEST	WORK ORDER NUMBER/ PRIORITY
	LOSS OF POWER				
SSPT-AD-52B.1	DIESEL GENERATOR 4KV EMERGENCY BUS CROSS - CONNECTING	0	08/24/90	S	
SSPT-AD-52B.2	DIESEL GENERATOR 4KV EMERGENCY BUS RESTORATION	0	08/24/90	S	
SSPT-AD-62A.1-2	ROD WORTH MINIMIZER SYSTEM MANUAL BYPASS	2	08/01/90	S	
SSPT-AD-62C.1-2	ROD DRIFT ALARM DUE TO RP18 FAILURE	0	09/09/90	S	
SSPT-AD-63G.1-2	DRYWELL RADIATION LEAK DETECTION PANEL OPERATION FOLLOWING GROUP III ISOLATION	0	09/05/90	S	
SSPT-AD-6D.1-2	REACTOR FEEDWATER PUMP SHUTDOWN WITH FAILED MINIMUM FLOW VALVE	0	09/05/90	S	
SSPT-AD-B.1-2	RECOVERY FROM OFF-GAS SYSTEM ISOLATION	0	10/09/90	S	
SSPT-GP-11A	MODE SWITCH OPERATIONS-STARTUP MODE	14	07/20/90	S	
SSPT-GP-11B	MODE SWITCH OPERATIONS-RUN MODE	10	07/24/90	S	
SSPT-GP-11C	REACTOR PROTECTION SYSTEM REFUEL MODE OPERATION	13	07/19/90	S	
SSPT-GP-11D	MODE SWITCH OPERATIONS-NORMAL PLANT SHUTDOWN	7	08/01/90	S	
SSPT-GP-11E	REACTOR PROTECTION	14	08/01/90	S	
SSPT-GP-17	BREACHING AND ESTABLISHING PRIMARY CONTAINMENT	3	07/16/90	S	
SSPT-GP-18	SCRAM REVIEW PROCEDURE		08/13/90	S	
SSPT-GP-19-2	EXTENDED CORE FLOW OPERATION	3	07/27/90	S	
SSPT-GP-22	LIMITING CONTROL ROD PATTERN GUIDANCE	3	07/27/90	S	
SSPT-GP-5	POWER OPERATIONS	10	10/18/90	S	

PERFORMANCE TEST	PERFORMANCE TEST TITLE	TEST REVISION NUMBER	DATE OF LAST TEST	RESULTS OF TEST	WORK ORDER NUMBER/ PRIORITY
SSPT-GP-B.A	PCIS ISOLATION - GROUP I	3	09/09/90	S	
SSPT-GP-B.B	PCIS ISOLATION - GROUPS II AND III	6	08/13/90	S	
SSPT-GP-B.C	GROUPS I, II AND III INBOARD HALF ISOLATION	7	08/22/90	S	
SSPT-GP-B.D	GROUPS I, II AND III OUTBOARD HALF ISOLATION	3	08/22/90	S	
SSPT-GP-B.E	PRIMARY CONTAINMENT ISOLATION BYPASS	1	11/06/90	S	
SSPT-GP-B.F	PCIS ISOLATION - GROUPS IV AND IV-B	1	10/09/90	S	
SSPT-GP-B.G	PCIS ISOLATION - GROUPS V AND V-B	1	10/09/90	S	
SSPT-GP-9-2	FAST REACTOR POWER REDUCTION	7	07/27/90	S	
SSPT-ON-101	LOSS OF ISOLATED PHASE BUS COOLING - PROCEDURE	2	08/27/90	S	
SSPT-ON-102	AIR EJECTOR DISCHARGE HIGH RADIATION - PROCEDURE	2	09/20/90	S	
SSPT-ON-103	OFF GAS STACK HIGH RADIATION - PROCEDURE	5	09/20/90	S	
SSPT-ON-104	VENT STACK HIGH RADIATION - PROCEDURE	3	09/20/90	S	
SSPT-ON-105	CONTROL ROD UNCOUPLED	1	09/10/90	S	
SSPT-ON-106	STUCK CONTROL ROD - PROCEDURE	1	09/10/90	S	
SSPT-ON-107	LOSS OF CRD REGULATING FUNCTION - PROCEDURE	2	09/10/90	S	
SSPT-ON-108	LOW CRD SCRAM AIR HEADER PRESSURE -PROCEDURE	2	09/10/90	S	
SSPT-ON-109	TOTAL LOSS OF SRM, IRM, OR APRM SYSTEMS - PROCEDURE	1	09/17/90	S	
SSPT-ON-110	LOSS OF PRIMARY CONTAINMENT - PROCEDURE	1	09/17/90	S	
SSPT-ON-113	LOSS OF RBCCW - PROCEDURE	4	09/10/90	S	

PERFORMANCE TEST	PERFORMANCE TEST TITLE	TEST REVISION NUMBER	DATE OF LAST TEST	RESULTS OF TEST	WORK ORDER NUMBER/ PRIORITY
SSPT-OW-114	ACTL FIRE RPRTD IN PWR BLCK,DSL GEN BLDG,EMRG PMP,INNER SCREEN OR EMRG CLG TWR	0	08/27/90	S	
SSPT-OW-116	REACTOR BLDG FLOOR DRAIN SUMP OR EQUIP DRAIN SUMP HIGH HIGH LEVEL - PROCEDURE	1	09/17/90	S	
SSPT-OW-117	REACTOR BLDG OR REFUELING FLOOR TO ATMOSPHERE DIFFERENTIAL PRESSURE HIGH - PROCE	2	09/10/90	S	
SSPT-OW-118	LOSS OF TURBINE BUILDING CLOSED COOLING WATER SYSTEM - PROCEDURE	1	08/27/90	S	
SSPT-OW-121	DRIFTING CONTROL ROD - PROCEDURE	0	09/10/90	S	
SSPT-OW-122	MISPOSITIONED CONTROL ROD - PROCEDURE	0	09/09/90	S	
SSPT-DT-100	REACTOR LOW LEVEL - PROCEDURE	3	09/17/90	S	
SSPT-OT-102	REACTOR HIGH PRESSURE - PROCEDURE	1	09/17/90	S	
SSPT-OT-103	MAIN STEAM LINE HIGH RADIATION - PROCEDURE	2	09/17/90	S	
SSPT-OT-104	POSITIVE REACTIVITY INSERTION - PROCEDURE	1	09/17/90	S	
SSPT-OT-105	SCRAM DISCHARGE VOLUME HIGH LEVEL	1	09/09/90	S	
SSPT-OT-106	CONDENSER LOW VACUUM - PROCEDURE	4	09/17/90	S	
SSPT-OT-110	REACTOR HIGH LEVEL - PROCEDURE	1	09/17/90	S	
SSPT-OT-111	REACTOR LOW PRESSURE - PROCEDURE	1	09/09/90	S	
SSPT-OT-112	RECIRCULATION PUMP TRIP - PROCEDURE	9	08/18/90	S	
SSPT-OT-113	LOSS OF STATOR COOLING	1	09/18/90	S	

PERFORMANCE TEST	PERFORMANCE TEST TITLE	TEST REVISION NUMBER	DATE OF LAST TEST	RESULTS OF TEST	WORK ORDER NUMBER/ PRIORITY
SSPT-OT-114	INADVERTENT OPENING OF A RELIEF VALVE - PROCEDURE	3	09/17/90	S	
SSPT-RT-15.7	FEEDWATER CONTROLLER STABILITY TEST	1	05/16/90	S	
SSPT-RT-19.11	ROD DRIFT ALARM TEST	0	07/20/90	S	
SSPT-RT-3.0	PLANT WATER INVENTORY DATA	11	07/26/90	S	
SSPT-RT-3.3-2	REACTOR RECIRC MOTOR GENERATOR, PUMP, & MOTOR TEMP, PRESS, VIBRATION, & FLOW LOG	0	07/26/90	S	
SSPT-RT-5.0	INDIVIDUAL FULL CLOSURE OF MAIN TURBINE STOP VALVES	15	07/24/90	S	
SSPT-RT-5.15	LOAD LIMIT OPERATION	1	07/24/90	S	
SSPT-RT-5.16	BEARING LIFT PUMP OPERATION	2	07/24/90	S	
SSPT-RT-5.1A	UNIT TWO BLEEDER TRIP VALVE TESTING	0	07/25/90	S	
SSPT-RT-5.2	MASTER TRIP SOLENOID VALVES	2	07/24/90	S	
SSPT-RT-5.21	OVERSPEED TRIP	4	08/05/90	S	
SSPT-RT-5.22	UNITS 2 AND 3 MAIN STOP VALVE TIGHTNESS TEST	4	08/05/90	S	
SSPT-RT-5.25	SOLENOID TRIP		08/05/90	S	
SSPT-RT-5.27	BACK-UP OVERSPEED TRIP	3	08/05/90	S	
SSPT-RT-5.3	THRUST WEAR DETECTOR	5	07/24/90	S	
SSPT-RT-5.8	CLOSURE OF COMBINED INTERMEDIATE VALVES	7	07/24/90	S	
SSPT-RT-5.9	EXERCISING OF TURBINE BYPASS VALVES	2	07/24/90	S	
SSPT-RT-8.1	FEEDWATER AND CONDENSATE FLOW DATA	3	08/03/90	S	
SSPT-RT-8.17-2	UNIT 2 HPCI FLOW CONTROL STABILITY TEST	0	08/14/90	S	
SSPT-RT-8.18-2	UNIT 2 RCIC FLOW CONTROL STABILITY TEST	0	08/14/90	S	

PERFORMANCE TEST	PERFORMANCE TEST TITLE	TEST REVISION NUMBER	DATE OF LAST TEST	RESULTS OF TEST	WORK ORDER NUMBER/ PRIORITY
SSPT-RT-9.13.1	CONTROL ROOM ANNUNCIATOR MODE SWITCH POSITION & ANN WINDOW COLOR CODING VERIFICA	1	01/09/91	S	
SSPT-RT-9.19.2	4KV SWITCHGEAR LOADING WITH ONE OFF-SITE STARTUP SOURCE	1	08/21/90	S	
SSPT-RT-9.19.3	ELECTRICAL LOAD REVIEW	2	08/21/90	S	
USPT-S.3.2.E.1	REJECTION OF TORUS INVENTORY TO THE RADWASTE SYSTEM	9	11/02/90	S	
SSPT-S.3.3.M	HPCI PUMP OPERABILITY VESSEL INJECTION	1	11/06/90	S	
SSPT-S.3.5.M	RCIC TURBINE TEST - SLOW START	0	11/06/90	S	
SSPT-S.3.9.2.E	CST MAKEUP TO THE TORUS VIA HPCI MIN FLOW LINE	0	11/04/90	S	
SSPT-SE-10.2	VESSEL CONTROL	3	08/28/90	S	
SSPT-SE-2 PROCEDURE	CARDOX INJECTION INTO CABLE SPREADING ROOM - PROCEDURE	5	08/24/90	S	
SSPT-SE-3	LOSS OF CONOWINGO POND	5	08/24/90	S	
SSPT-SO 10.1.A-2	RESIDUAL HEAT REMOVAL SYSTEM SET UP FOR AUTOMATIC OPERATION	0	07/16/90	S	
SSPT-SO 10.1.B-2	RESIDUAL HEAT REMOVAL SYSTEM SHUTDOWN COOLING MODE MANUAL START	4	08/01/90	S	
SSPT-SO 10.1.C-2	RESIDUAL HEAT REMOVAL SYSTEM PRECISE REACTOR TEMPERATURE CONTROL	1	08/01/90	S	
SSPT-SO 10.1.D-2	RESIDUAL HEAT REMOVAL SYSTEM TORUS COOLING	2	07/23/90	S	
SSPT-SO 10.2.A-2	RESIDUAL HEAT REMOVAL SYSTEM LPCI SHUTDOWN & RETURN TO STANDBY	0	09/14/90	S	
SSPT-SO 10.2.B-2	RESIDUAL HEAT REMOVAL SYSTEM SHUTDOWN COOLING MODE SHUTDOWN	2	07/18/90	S	
SSPT-SO 10.7.A-2	RESIDUAL HEAT REMOVAL SYSTEM LPCI MODE MANUAL START	2	09/14/90	S	

PERFORMANCE TEST	PERFORMANCE TEST TITLE	TEST REVISION NUMBER	DATE OF LAST TEST	RESULTS OF TEST	WORK ORDER NUMBER/PRIORITY
SSPT-SO 10.7.B-2	RESIDUAL HEAT REMOVAL SYSTEM OPERATION FOLLOWING LPCI AUTO INITIATION	2	09/14/90	S	
SSPT-SO 10.8.A-2	RESIDUAL HEAT REMOVAL SYSTEM ROUTINE INSPECTION	1	08/16/90	S	
SSPT-SO 11.1.A-2	STANDBY LIQUID CONTROL SYSTEM SETUP FOR OPERATION	3	07/17/90	S	
SSPT-SO 11.1.B-2	STANDBY LIQUID CONTROL SYSTEM INITIATION	0	08/16/90	S	
SSPT-SO 11.8.A-2	STANDBY LIQUID CONTROL SYSTEM ROUTINE INSPECTION	1	08/16/90	S	
SSPT-SO 12.1.A-2	REACTOR WATER CLEANUP SYSTEM START-UP FOR NORMAL OPERATIONS OR REACTOR VSL LVL	5	07/13/90	S	
SSPT-SO 12.2.A-2	REACTOR WATER CLEANUP SYSTEM SHUTDOWN	0	08/15/90	S	
SSPT-SO 12.8.A-2	REACTOR WATER CLEANUP SYSTEM ROUTINE INSPECTION	1	07/13/90	S	
SSPT-SO 12A.1.A-2	RWCU AUTOMATIC REGENERATION OF A FILTER-DEMINERALIZER & POST STRAINER	3	08/29/90	S	
SSPT-SO 13.1.A-2	RCIC SYSTEM ALIGNMENT FOR AUTOMATIC OR MANUAL INITIATION	0	07/22/90	S	
SSPT-SO 13.1.B-2	RCIC SYSTEM MANUAL OPERATION	2	08/29/90	S	
SSPT-SO 13.1.C-2	RCIC SYSTEM AUTOMATIC INITIATION RESPONSE	1	06/29/90	S	
SSPT-SO 13.2.A-2	RCIC SYSTEM SHUTDOWN	1	08/29/90	S	
SSPT-SO 13B.7.A-2	TRANSFER OF RCIC PUMP SUCTION FROM CST TO TORUS	3	08/29/90	S	
SSPT-SO 14.2.A-2	CORE SPRAY SYSTEM SHUTDOWN FOLLOWING INITIATION	0	09/14/90	S	
SSPT-SO 14.5.A-2	CORE SPRAY SYSTEM FLUSH	1	08/01/90	S	
SSPT-SO 14.7.A-2	CORE SPRAY SYSTEM AUTO RSPNS DURING A LOCA & MANUAL SYS INIT UPON AUTO INJTN FLR	0	09/14/90	S	

PERFORMANCE TEST	PERFORMANCE TEST TITLE	TEST REVISION NUMBER	DATE OF LAST TEST	RESULTS OF TEST	WORK ORDER NUMBER/ PRIORITY
SSPT-SO 14.7.B-2	MANUAL OPERATION OF CORE SPRAY SYSTEM WITH DISCHARGE TO TORUS	1	08/29/90	S	
SSPT-SO 14A.1.A-2	TORUS WATER CLEANUP & LEVEL CONTROL	2	11/02/90	S	
SSPT-SO 16.1.A-2	INSTRUMENT NITROGEN SYSTEM STARTUP & NORMAL OPERATION	0	07/16/90	S	
SSPT-SO 16.2.A-2	INSTRUMENT NITROGEN SYSTEM SHUTDOWN	0	08/30/90	S	
SSPT-SO 16.7.A-2	INSTRUMENT NITROGEN SYSTEM RESTORATION FOLLOWING PRIMARY CONTAINMENT ISOLATION	0	08/30/90	S	
SSPT-SO 16.7.B-2	RESPONDING TO A INSTRUMENT NITROGEN SYSTEM ROUTINE INSPECTION	1	08/30/90	S	
SSPT-SO 16.8.A-2	INSTRUMENT NITROGEN SYSTEM ROUTINE INSPECTION	0	08/30/90	S	
SSPT-SO 16A.1.A-2	BACKUP INSTRUMENT NITROGEN TO ADS STARTUP & OPERATION	0	08/30/90	S	
SSPT-SO 16A.7.A-2	BACKUP INSTRUMENT NITROGEN TO ADS SYSTEM MANUAL ACTUATION	0	08/30/90	S	
SSPT-SO 16A.8.A-2	BACKUP INSTRUMENT NITROGEN TO ADS SYSTEM ROUTINE INSPECTION	0	08/30/90	S	
SSPT-SO 19.1.A-2	FUEL POOL COOLING SYSTEM STARTUP & NORMAL OPERATIONS	0	09/04/90	S	
SSPT-SO 19.2.A-2	FUEL POOL COOLING SHUTDOWN	0	08/30/90	S	
SSPT-SO 19.8.A-2	FUEL POOL COOLING SYSTEM ROUTINE INSPECTION	0	08/30/90	S	
SSPT-SO 1A.1.A-2	MAIN STEAM SYSTEM STARTUP	1	09/09/90	S	
SSPT-SO 1B.2.A-2	MAIN TURBINE GENERATOR SHUTDOWN	1	08/01/90	S	
SSPT-SO 1D.1.A-2	ELECTROHYDRAULIC CONTROL OIL SYSTEM STARTUP & NORMAL OPERATIONS	2	07/14/90	S	
SSPT-SO 1D.2.A-2	ELECTROHYDRAULIC CONTROL OIL SYSTEM SHUTDOWN	0	09/04/90	S	

PERFORMANCE TEST	PERFORMANCE TEST TITLE	TEST REVISION NUMBER	DATE OF LAST TEST	RESULTS OF TEST	WORK ORDER NUMBER/ PRIORITY
SSPT-SO 1D.6.A-2	PLACING THE ELECT/ HYDRAULIC CONTROL OIL SYSTEM TANDBY PUMP IN SERVICE	0	07/25/90	S	
SSPT-SO 1E.1.A-2	PLACING FEEDWATER HEATERS EXTRACTION STEAM IN SERVICE	2	07/25/90	S	
SSPT-SO 1E.2.A-2	REMOVING FEEDWATER HEATERS EXTRACTION STEAM FROM SERVICE	3	07/20/90	S	
SSPT-SO 1F.7.A-2	MAIN TURBINE LUBE OIL BEARING LIFT PUMP RESTART FOLLOWING A LOW SUCTION PRESSURE	0	07/20/90	S	
SSPT-SO 1G.1.A-2	AUTOMATIC DEPRESSURIZATION & RELIEF VALVE SYSTEM ALIGNMENT FOR NORMAL OPERATION	1	07/16/90	S	
SSPT-SO 1G.7.A-2	AUTOMATIC DEPRESSURIZATION & RELIEF VALVE SYSTEM MANUAL OPERATION	0	10/18/90	S	
SSPT-SO 1G.7.B-2	AUTOMATIC DEPRESSURIZATION SYSTEM TIMER RESET PRIOR TO BLOWDOWN	2	09/14/90	S	
SSPT-SO 1G.7.C-2	AUTOMATIC DEPRESSURIZATION SYSTEM RESET FOLLOWING BLOWDOWN	2	09/14/90	S	
SSPT-SO 1G.8.A-2	AUTOMATIC DEPRESSURIZATION & RELIEF SYSTEM ROUTINE INSPECTION	0	08/30/90	S	
SSPT-SO 1H.2.A-2	SEAL STEAM SYSTEM SHUTDOWN	0	08/01/90	S	
SSPT-SO 1H.6.B-2	SEAL STEAM TRANSFER FROM AUXILIARY STEAM TO MAIN STEAM	0	07/22/90	S	
SSPT-SO 2.7.A-2	RECIRCULATION SYSTEM RUNBACK RESET	0	08/18/90	S	
SSPT-SO 20A.1.A	FLOOR DRAIN SUMPS STARTUP & NORMAL OPERATION	0	07/16/90	S	
SSPT-SO 20C.1.D	EQUIPMENT DRAIN SUMPS STARTUP & NORMAL OPERATIONS	0	07/16/90	S	
SSPT-SO 20C.7.J	LOSS OF COOLING TO DRYWELL EQUIPMENT DRAIN SUMP	0	08/24/90	S	

PERFORMANCE TEST	PERFORMANCE TEST TITLE	TEST REVISION NUMBER	DATE OF LAST TEST	RESULTS OF TEST	WORK ORDER NUMBER/ PRIORITY
SSPT-SO 23.1.A-2	HIGH PRESSURE COOLANT INJECTION SYSTEM SETUP FOR AUTOMATIC OR MANUAL OPERATION	1	07/22/90	S	
SSPT-SO 23.1.B-2	HPCI SYSTEM MANUAL OPERATION	5	07/23/90	S	
SSPT-SO 23.2.A-2	HIGH PRESSURE COOLANT INJECTION SYSTEM SHUTDOWN & RETURN TO STANDBY FRM OPRTN	3	08/30/90	S	
SSPT-SO 23.7.A-2	HIGH PRESSURE COOLANT INJECTION SYSTEM AUTOMATIC INITIATION RESPONSE	0	08/30/90	S	
SSPT-SO 23.7.C-2	HPCI SYSTEM RECOVERY FROM SYSTEM ISOLATION OR TURBINE TRIP	1	08/30/90	S	
SSPT-SO 27.1.A	CONDENSATE TRANSFER & STORAGE SYSTEM STARTUP & NORMAL OPERATION	0	07/26/90	S	
SSPT-SO 27.6.A	CONDENSATE TRANSFER & STORAGE SYSTEM PLACING A STANDBY CONDENSATE TRNSFR PMP SRV	0	07/26/90	S	
SSPT-SO 27.7.B	CONDENSATE TRANSFER & STRGE SYS OPRTN FOR TRNSFR OR EQUALIZATION OF WTR BTWN STR	2	08/30/90	S	
SSPT-SO 27.B.A	CONDENSATE TRANSFER & STORAGE SYSTEM ROUTINE INSPECTION	0	07/26/90	S	
SSPT-SO 28A.1.A-2	CIRCULATING WATER SYSTEM STARTUP & NORMAL OPERATIONS	1	07/13/90	S	
SSPT-SO 28A.7.A-2	REMOVAL OF ONE CIRCULATING WATER PUMP FROM SERVICE	0	07/27/90	S	
SSPT-SO 28A.7.C-2	RESTORING A WATER BOX TO SERVICE	0	07/27/90	S	
SSPT-SO 28A.7.D-2	PLACING CIRCULATING WATER SYSTEM WATER BOX SCAVENGING SYSTEM IN SERVICE	0	07/12/90	S	
SSPT-SO 28A.8.A-2	CIRCULATING WATER SYSTEM ROUTINE INSPECTION	0	07/13/90	S	
SSPT-SO 28B.1.A	COOLING TOWER STARTUP FOR NORMAL OPERATION	3	07/30/90	S	

PERFORMANCE TEST	PERFORMANCE TEST TITLE	TEST REVISION NUMBER	DATE OF LAST TEST	RESULTS OF TEST	WORK ORDER NUMBER/ PRIORITY
SSPT-SO 2P.6.A	PLACING THE STANDBY LOW PRESSURE LUBE WATER PUMP IN SERVICE	0	07/26/90	S	
SSPT-SO 29.1.A-2	SCREEN STRUCTURE TRAVELING SCREENS AUTOMATIC & MANUAL OPERATION	0	07/12/90	S	
SSPT-SO 29.1.B-2	SERVICE WATER TRAVELING AUTOMATIC & MANUAL OPERATION	1	07/12/90	S	
SSPT-SO 29.1.C-2	CIRCULATING WATER TRAVELING SCREENS AUTOMATIC & MANUAL OPERATIONS	0	07/12/90	S	
SSPT-SO 29.2.B-2	SERVICE WATER TRAVELING SCREENS SYSTEM SHUTDOWN	0	08/30/90	S	
SSPT-SO 29.2.C-2	CIRCULATING WATER TRAVELING SCREENS SYSTEM SHUTDOWN	0	08/30/90	S	
SSPT-SO 2A.1.C-2	OPERATION OF THE RECIRCULATION PUMP SEAL PURGE SYSTEM	1	07/19/90	S	
SSPT-SO 2A.2.A-2	RECIRCULATION PUMP SHUTDOWN	2	08/03/90	S	
SSPT-SO 2A.7.A-2	RECIRCULATION PUMP MOTOR VIBRATION INSTRUMENTATION OPERATION	0	07/26/90	S	
SSPT-SO 2C.2.A-2	RECIRCULATION MG SET LUBE OIL SYSTEM SHUTDOWN	0	08/30/90	S	
SSPT-SO 2C.6.A-2	RECIRCULATION MG SET LUBE OIL SYSTEM STANDBY PUMP START	0	08/30/90	S	
SSPT-SO 2D.7.A-2	RECIRCULATION MG SCOOP TUBE MANUAL OPERATION	0	08/30/90	S	
SSPT-SO 2D.7.B-2	RECIRCULATION MG SET SCOOP TUBE LOCKUP RESET	1	08/30/90	S	
SSPT-SO 3.2.A-2	CONTROL ROD DRIVE HYDRAULIC SYSTEM SHUTDOWN	0	09/04/90	S	
SSPT-SO 3.6.A-2	U/2 PLACING STANDBY CONTROL ROD DRIVE HYDRAULIC SYSTEM PUMP IN SERVICE	0	09/04/90	S	
SSPT-SO 3.6.D-2	CONTROL ROD DRIVE HYDRAULIC SYSTEM CONTROL VALVE SWAPPING	0	08/30/90	S	

PERFORMANCE TEST	PERFORMANCE TEST TITLE	TEST REVISION NUMBER	DATE OF LAST TEST	RESULTS OF TEST	WORK ORDER NUMBER/ PRIORITY
SSPT-SO 30.1.B-2	FUEL POOL SERVICE WATER BOOSTER PUMP STARTUP & NORMAL OPERATIONS	0	08/30/90	S	
SSPT-SO 30.6.A-2	PLACING STANDBY SERVICE WATER PUMP IN SERVICE	1	08/23/90	S	
SSPT-SO 30.6.B-2	PLACING STANDBY FUEL POOL SERVICE WATER BOOSTER PUMP IN SERVICE	0	08/23/90	S	
SSPT-SO 30.7.A-2	HIGH RADIATION ON SERVICE WATER DISCHARGE	0	08/27/90	S	
SSPT-SO 30.8.A-2	SERVICE WATER SYSTEM ROUTINE INSPECTION	0	08/27/90	S	
SSPT-SO 308.1.A	HIGH PRESSURE LUBE WATER SYSTEM STARTUP & NORMAL OPERATION	0	08/28/90	S	
SSPT-SO 308.6.A	PLACING STANDBY HIGH PRESSURE LUBE WATER PUMP IN SERVICE	0	08/28/90	S	
SSPT-SO 32.2.A-2	HIGH PRESSURE SERVICE WATER SYSTEM SHUTDOWN	0	08/27/90	S	
SSPT-SO 33.1.A	EMERGENCY SERVICE WATER SYSTEM SETUP FOR NORMAL STANDBY OPERATION	0	07/13/90	S	
SSPT-SO 33.2.A	EMERGENCY SERVICE WATER SYSTEM SHUTDOWN	0	06/19/90	S	
SSPT-SO 33.8.B	EMERGENCY SERVICE WATER SYSTEM ROUTINE INSPECTION WHILE SYSTEM IS IN OPERATION	0	08/23/90	S	
SSPT-SO 34.1.A-2	TURBINE BUILDING CLOSED COOLING WATER SYSTEM STARTUP & NORMAL OPERATIONS	0	07/13/90	S	
SSPT-SO 34.2.A-2	TURBINE BUILDING CLOSED COOLING WATER SYSTEM SHUTDOWN	1	08/27/90	S	
SSPT-SO 34.5.A-2	TURBINE BUILDING CLOSED COOLING WATER FEED AND BLEED PURGE	0	08/28/90	S	
SSPT-SO 34.6.A-2	PLACING STANDBY TURBINE BUILDING CLOSED COOLING WATER SYSTEM PUMP IN SERVICE	0	08/27/90	S	

PERFORMANCE TEST	PERFORMANCE TEST TITLE	TEST REVISION NUMBER	DATE OF LAST TEST	RESULTS OF TEST	WORK ORDER NUMBER/ PRIORITY
SSPT-SO 34.6.B-2	PLACING STANDBY TURBINE BUILDING CLOSED COOLING WATER HEAT EXCHANGER IN SERVICE	0	08/27/90	S	
SSPT-SO 34.7.B-2	TURBINE BUILDING CLOSED COOLING WATER SYSTEM RESTORATION FLWNG LOSS OF BOTH PMPS	0	08/27/90	S	
SSPT-SO 34.8.A-2	TURBINE BUILDING CLOSED COOLING WATER SYSTEM ROUTINE INSPECTION	0	08/27/90	S	
SSPT-SO 35.1.A-2	REACTOR BUILDING CLOSED COOLING WATER SYSTEM STARTUP & NORMAL OPERATIONS	0	07/13/90	S	
SSPT-SO 35.2.A-2	REACTOR BUILDING CLOSED COOLING WATER SYSTEM SHUTDOWN	0	08/27/90	S	
SSPT-SO 35.5.A-2	REACTOR BUILDING CLOSED COOLING WATER FEED AND BLEED PURGE	0	08/28/90	S	
SSPT-SO 35.6.A-2	PLACING STANDBY REACTOR BUILDING CLOSED COOLING WATER PUMP IN SERVICE	0	08/27/90	S	
SSPT-SO 35.6.B-2	PLACING STANDBY REACTOR BUILDING CLOSED COOLING WATER HEAT EXCHANGERS IN SERVICE	0	08/27/90	S	
SSPT-SO 36A.1.B-2	AIR COMPRESSOR "C" RETURN TO SERVICE	0	08/15/90	S	
SSPT-SO 36A.1.C-2	SERVICE & INSTRUMENT AIR SYSTEM LINEUP FOR NORMAL OPERATIONS	0	08/15/90	S	
SSPT-SO 36A.2.A-2	SERVICE AIR SYSTEM SHUTDOWN	0	08/15/90	S	
SSPT-SO 36A.2.B-2	AIR COMPRESSOR "C" SHUTDOWN	0	08/15/90	S	
SSPT-SO 36B.1.A-2	INSTRUMENT AIR SYSTEM STARTUP & NORMAL OPERATIONS	0	08/16/90	S	
SSPT-SO 36B.1.B-2	AIR COMPRESSOR "A" RETURN TO SERVICE	0	08/16/90	S	
SSPT-SO 36B.1.C-2	AIR COMPRESSOR "B" RETURN TO SERVICE	0	08/16/90	S	

PERFORMANCE TEST	PERFORMANCE TEST TITLE	TEST REVISION NUMBER	DATE OF LAST TEST	RESULTS OF TEST	WORK ORDER NUMBER/ PRIORITY
SSPT-SO 366.7.B-2	COMPRESSED AIR SYSTEM OPERATION WITH "B" COMPRESSOR OUT OF SERVICE	0	08/16/90	S	
SSPT-SO 38C.1.D	MAKEUP WATER SYSTEM DEMINERALIZER FEED PUMP OPERATION	0	08/30/90	S	
SSPT-SO 38D.1.A	DEMINERALIZED WATER DISTRIBUTION SYSTEM STARTUP & NORMAL OPERATION	0	08/30/90	S	
SSPT-SO 38D.2.A	DEMINERALIZED WATER DISTRIBUTION SYSTEM SHUTDOWN	0	08/30/90	S	
SSPT-SO 38D.8.A	DEMINERALIZED WATER DISTRIBUTION SYSTEM ROUTINE INSPECTION	0	08/30/90	S	
SSPT-SO 40B.1.A-2	REACTOR BUILDING VENTILATION SYSTEM STARTUP & NORMAL OPERATION	1	07/12/90	S	
SSPT-SO 40B.2.A-2	REACTOR BUILDING VENTILATION SYSTEM SHUTDOWN	0	08/24/90	S	
SSPT-SO 40B.8.A-2	ROUTINE INSPECTION OF REACTOR BUILDING/REFUEL FLOOR VENTILATION SYSTEM	0	07/13/90	S	
SSPT-SO 40C.1.A-2	DRYWELL VENTILATION SYSTEM STARTUP & NORMAL OPERATIONS	0	07/14/90	S	
SSPT-SO 40C.2.A-2	DRYWELL VENTILATION SYSTEM STARTUP	0	08/23/90	S	
SSPT-SO 40D.1.B	SETUP OF CONTROL ROOM EMERGENCY VENTILATION FOR AUTOMATIC OPERATION	1	08/30/90	S	
SSPT-SO 40D.5.A	CONTROL ROOM VENTILATION PURGE AIR SYSTEM	0	08/30/90	S	
SSPT-SO 44A.1.A-2	DRYWELL CHILLER WATER SYSTEM STARTUP & NORMAL OPERATIONS	1	07/13/90	S	
SSPT-SO 44A.7.A-2	LOSS OF DRYWELL CHILLER UNIT	0	08/30/90	S	
SSPT-SO 44A.7.B-2	LOSS OF DRYWELL CHILLER WATER PUMP	0	08/30/90	S	

PERFORMANCE TEST	PERFORMANCE TEST TITLE	TEST REVISION NUMBER	DATE OF LAST TEST	RESULTS OF TEST	WORK ORDER NUMBER/ PRIORITY
SSPT-SO 44A.8.A-2	DRYWELL CHILLED WATER SYSTEM ROUTINE INSPECTION	0	08/30/90	S	
SSPT-SO 48.1.A	EMERGENCY COOLING WATER SYSTEM SETUP FOR NORMAL STANDBY	0	07/13/90	S	
SSPT-SO 48.1.B	EMERGENCY COOLING WATER SYSTEM STARTUP	6	08/24/90	S	
SSPT-SO 48.2.A	EMERGENCY COOLING WATER SYSTEM SHUTDOWN	4	08/27/90	S	
SSPT-SO 48.8.A	EMERGENCY COOLING WATER SYSTEM ROUTINE INSPECTION WHILE IN STANDBY CONDITION	0	07/13/90	S	
SSPT-SO 5.1.A-2	CONDENSATE SYSTEM CONDENSATE PUMP START ON SHORT PATH RECIRC	1	07/13/90	S	
SSPT-SO 5.1.B-2	PLACING SECOND AND THIRD CONDENSATE PUMPS IN SERVICE	3	07/25/90	S	
SSPT-SO 5.2.A-2	CONDENSATE SYSTEM CONDENSATE PUMP SHUTDOWN	0	07/30/90	S	
SSPT-SO 5.3.A-2	CONDENSATE SYSTEM HOTWELL FILL	0	09/05/90	S	
SSPT-SO 5.7.B-2	CONDENSATE SYSTEM TRANSFER FROM SHORT PATH RECIRC TO LONG PATH RECIRC FOR FW HTR	0	08/13/90	S	
SSPT-SO 5.7.E-2	LONG PATH RECIRC FOR STARTUP LEVEL CONTROL	2	07/23/90	S	
SSPT-SO 5.8.A-2	CONDENSATE SYSTEM ROUTINE INSPECTION	1	08/31/90	S	
SSPT-SO 50.1.A-2	MAIN GENERATOR SYNCHRONIZING & LOADING	1	07/25/90	S	
SSPT-SO 50A.1.A-2	STATOR COOLING SYSTEM STARTUP FOR NORMAL OPERATION	2	07/12/90	S	
SSPT-SO 50A.2.A-2	STATOR COOLING SYSTEM SHUTDOWN	0	08/01/90	S	
SSPT-SO 50A.6.A-2	PLACING STANDBY STATOR COOLING PUMP SERVICE	1	08/30/90	S	
SSPT-SO 50B.1.A-2	HYDROGEN SEAL OIL SYSTEM STARTUP & NORMAL OPERATIONS	2	07/13/90	S	

PERFORMANCE TEST	PERFORMANCE TEST TITLE	TEST REVISION NUMBER	DATE OF LAST TEST	RESULTS OF TEST	WORK ORDER NUMBER/ PRIORITY
SSPT-SO 50B.2.A-2	HYDROGEN SEAL OIL SYSTEM SHUTDOWN	2	09/04/90	S	
SSPT-SO 50C.5.A-2	GENERATOR PURGING - AIR TO CO2 AND CO2 TO H2	3	07/13/90	S	
SSPT-SO 50C.5.C-2	INCREASING HYDROGEN PURITY IN THE MAIN GENERATOR	2	08/31/90	S	
SSPT-SO 50C.7.B-2	REPOSE TO A GENERATOR CORE MONITOR ALARM	0	08/31/90	S	
SSPT-SO 50D.1.A-2	ISOLATED PHASE BUS COOLERS STARTUP & NORMAL OPERATIONS	0	07/26/90	S	
SSPT-SO 50D.6.A-2	PLACING A STANDBY ISOLATED PHASE BUS COOLER IN SERVICE	0	07/26/90	S	
SSPT-SC 52A.1.A	DIESEL GENERATOR MANUAL STARTUP FROM THE CONTROL ROOM	2	08/20/90	S	
SSPT-SO 52A.1.D	DIESEL GENERATOR LINEUP FOR AUTOMATIC START	0	08/20/90	S	
SSPT-SO 52A.7.A	DIESEL GENERATOR MANUAL EMERGENCY STARTUP	2	08/20/90	S	
SSPT-SO 52B.1.A	DIESEL GENERATOR SYNCHRONIZATION AND LOADING	4	08/20/90	S	
SSPT-SO 52B.1.B	DIESEL GENERATOR AUTOMATIC START	1	08/20/90	S	
SSPT-SO 52B.2.A	DIESEL GENERATOR SHUTDOWN; DIESEL CARRYING ONE 4KV EMERGENCY BUS	3	08/20/90	S	
SSPT-SO 52B.2.B	DIESEL GENERATOR SHUTDOWN; DIESEL CARRYING TWO 4KV EMERGENCY BUSES	3	08/20/90	S	
SSPT-SO 52B.2.C	DIESEL GENERATOR SHUTDOWN; DIESEL GENERATOR BREAKERS OPEN	0	08/20/90	S	
SSPT-SO 53.1.A-2	ELECTRICAL SYSTEM OPERATIONS PRIOR TO STARTUP	0	08/21/90	S	
SSPT-SO 53.1.B-2	ELECTRICAL SYSTEM OPERATIONS DURING GENERATOR STARTUP AND LOADING	0	08/21/90	S	

PERFORMANCE TEST	PERFORMANCE TEST TITLE	TEST REVISION NUMBER	DATE OF LAST TEST	RESULTS OF TEST	WORK ORDER NUMBER/ PRIORITY
SSPT-SO 53.2.A-2	TRANSFERRING U/2 HOUSE LOADS FROM UNIT AUX TRANSFORMER TO STARTUP FEED BUSES	1	08/21/90	S	
SSPT-SO 53.6.A	GENERAL AUXILIARY ELECTRICAL SYSTEM OPERATIONS	0	08/21/90	S	
SSPT-SO 53.6.B	AUXILIARY ELECTRICAL SYSTEM TRANSFER OPERATIONS	1	08/21/90	S	
SSPT-SO 53.7.A	UNIT 2 OFF-SITE STARTUP SOURCES SCHEDULED OUTAGE	0	08/22/90	S	
SSPT-SO 53.7.B	UNIT 3 OFF-SITE STARTUP SOURCE SCHEDULED OUTAGE	0	08/22/90	S	
SSPT-SO 53.7.C	RESPONSE TO A LOSS OF #2 OFF-SITE STARTUP SOURCE	1	08/22/90	S	
SSPT-SO 53.7.D	RESPONSE TO A LOSS OF #3 OFF-SITE STARTUP SOURCE	1	08/22/90	S	
SSPT-SO 53.7.E	13KV FAST TRANSFER AND GENERATOR LOCKOUT	0	08/22/90	S	
SSPT-SO 53.7.F	13KV LOAD SHEDDING ON BUS UNDERVOLTAGE	0	08/23/90	S	
SSPT-SO 53.7.G	OFF-SITE AC POWER RESTORATION FOLLOWING LOSS OF GRID	0	08/29/90	S	
SSPT-SO 53.7.K	RESTORE UNIT 2 OFF-SITE STARTUP SOURCE FOLLOWING OUTAGE	0	08/22/90	S	
SSPT-SO 53.7.L	RESTORE UNIT 3 OFF-SITE STARTUP SOURCE FOLLOWING OUTAGE	0	08/22/90	S	
SSPT-SO 54.1.A	4160 VOLT EMERGENCY AUX SWITCHGEAR SYSTEM NORMAL OPERATIONS	0	08/21/90	S	
SSPT-SO 54.7.B	4KV BUS DEENERGIZATION AND REENERGIZATION	0	08/23/90	S	
SSPT-SO 54.7.E	4KV DIESEL GENERATOR AUTO START AND LOADING	1	08/22/90	S	
SSPT-SO 54.7.F	4KV SWITCHGEAR MANUAL TRANSFER	0	08/22/90	S	

PERFORMANCE TEST	PERFORMANCE TEST TITLE	TEST REVISION NUMBER	DATE OF LAST TEST	RESULTS OF TEST	WORK ORDER NUMBER/PRIORITY
SSPT-SO 54.7.H	RESTORING THE 4KV 95X UNDERVOLTAGE TRIP	0	08/22/90	S	
SSPT-SO 55.1.A-2	480 VOLT LOAD CENTER SYSTEM NORMAL OPERATIONS	1	08/21/90	S	
SSPT-SO 56.1.A-2	480 VOLT MOTOR CONTROL CENTER SYSTEM NORMAL OPERATION	0	07/17/90	S	
SSPT-SO 58B.1.A-2	UNINTERRUPTIBLE AC SYSTEM NORMAL OPERATION	0	07/19/90	S	
SSPT-SO 5A.1.A-1	CONDENSATE DEMINERALIZER SYSTEM STARTUP & NORMAL OPERATIONS	0	07/13/90	S	
SSPT-SO 5A.2.A-2	CONDENSATE DEMINERALIZER SYSTEM SHUTDOWN	0	08/21/90	S	
SSPT-SO 5A.2.B-2	CONDENSATE DEMINERALIZER INDIVIDUAL VESSEL SHUTDOWN	1	08/01/90	S	
SSPT-SO 5A.6.A-2	PLACING STANDBY CONDENSATE DEMINERALIZER	2	08/31/90	S	
SSPT-SO 5A.7.A-2	CONDENSATE DEMINERALIZER REGENERATION USING LOW PRESSURE BACKWASH	2	08/31/90	S	
SSPT-SO 60A.7.B-2	APRM & LPRM BYPASS CONTROL	0	07/24/90	S	
SSPT-SO 60F.7.A-2	REACTOR PROTECTION SYSTEM LOSS OF NORMAL POWER SUPPLY OPERATION	0	09/23/90	S	
SSPT-SO 60F.8.A-2	REACTOR PROTECTION SYSTEM POWER SUPPLY ROUTINE INSPECTION	0	07/17/90	S	
SSPT-SO 62.1.A-2	WITHDRAWING/INSERTING A CONTROL ROD ONE NOTCH	0	07/20/90	S	
SSPT-SO 62.1.B-2	WITHDRAWING/INSERTING A CONTROL ROD CONTINUOUSLY	0	07/20/90	S	
SSPT-SO 62.7.A-2	RECEIPT OF ROD BLOCKS		07/26/90	S	
SSPT-SO 62.7.B-2	TIMER MALFUNCTION	0	07/26/90	S	
SSPT-SO 62A.1.A-2	ROD WORTH MINIMIZER SYSTEM SEQUENCE SELECTION AND INITIALIZATION	1	07/30/90	S	

PERFORMANCE TEST	PERFORMANCE TEST TITLE	TEST REVISION NUMBER	DATE OF LAST TEST	RESULTS OF TEST	WORK ORDER NUMBER/ PRIORITY
SSPT-SO 62A.1.B-2	ROD WORTH MINIMIZER SYSTEM DIAGNOSTIC ROUTINE	0	07/18/90	S	
SSPT-SO 63B.1.A-2	OFF-GAS RADIATION MONITORING SYSTEM STARTUP & NORMAL OPERATION	1	07/17/90	S	
SSPT-SO 63E.1.A-2	PLACING REACTOR BLDG VENT STACK RADIATION MONITORING SYSTEM SAMPLE PMP IN OPERAT	1	07/17/90	S	
SSPT-SO 63G.1.A-2	DRYWELL RADIATION LEAK DETECTION PANEL STARTUP FOR NORMAL OPERATION	0	07/17/90	S	
SSPT-SO 63L.1.A	CONTROL ROOM RADIATION MONITORING SYSTEM STARTUP FOR NORMAL OPERATIONS	0	07/17/90	S	
SSPT-SO 63N.1.A	RECOMBINER RADIATION MONITORING SYSTEM STARTUP & NORMAL OPERATION	0	07/19/90	S	
SSPT-SO 68.1.A-2	REACTOR FEEDWATER PUMP TURBINE LUBE OIL SYSTEM STARTUP	1	07/13/90	S	
SSPT-SO 68.6.A-2	REACTOR FEEDWATER PUMP TURBINE STANDBY LUBE OIL PUMP STARTUP	0	07/26/90	S	
SSPT-SO 6C.1.C-2	STARTUP OF SECOND DR THRID REACTOR FEEDWATER PUMP	5	07/25/90	S	
SSPT-SO 6C.1.D-2	REACTOR FEEDWATER AUTOMATIC LEVEL CONTROL	0	07/25/90	S	
SSPT-SO 6D.2.A-2	REACTOR FEEDWATER PUMP SHUTDOWN	1	08/01/90	S	
SSPT-SO 6D.2.B-2	"C" REACTOR FEEDWATER PUMP (RFP) SHUTDOWN, AS THE LAST RFP IN SERVICE	0	08/01/90	S	
SSPT-SO 6D.7.A-2	PLACING A REACTOR FEEDWATER PUMP MOTOR GEAR UNIT ON THE HYDRUALIC JACK	0	08/31/90	S	
SSPT-SO 6D.7.B-2	REMOVING A REACTOR FEEDWATER PUMP MOTOR GEAR UNIT FROM THE HYDRUALIC JACK	0	08/31/90	S	

PERFORMANCE TEST	PERFORMANCE TEST TITLE	TEST REVISION NUMBER	DATE OF LAST TEST	RESULTS OF TEST	WRK ORDER NUMBER/ PRIORITY
SSPT-SO 7B.1.A-2	CONTAINMENT ATMOSPHERE INERTING	2	07/19/90	S	
SSPT-SO 7B.1.B	CAC NITROGEN STORAGE SYSTEM STARTUP & OPERATION HIGH FLOW MODE	2	07/17/90	S	
SSPT-SO 7B.7.A-2	CONTAINMENT ATMOSPHERE PURGE, INERTING, & EXHAUST VALVES OPERATION	0	07/19/90	S	
SSPT-SO 7B.8.A-2	CONTAINMENT ATMOSPHERE CONTROL SYSTEM ROUTINE INSPECTION	0	07/16/90	S	
SSPT-SO 7C.1.A-2	CAD SYSTEM STARTUP/STANDBY OPERATIONS	1	07/17/90	S	
SSPT-SO 8.2.A-2	OFF-GAS SYSTEM SHUTDOWN	1	08/01/90	S	
SSPT-SO 8.7.A	OFF-GAS DILUTION FAN OPERATION	0	07/12/90	S	
SSPT-SO 8A.6.A-2	PLACING THE STANDBY SJAE IN SERVICE & PLACING THE IN SERVICE SJAE IN STANDBY	1	09/05/90	S	
SSPT-SO 8E.1.A-2	OFF-GAS MECHANICAL VACUUM PUMP STARTUP FOR NORMAL OPERATIONS	2	07/20/90	S	
SSPT-SO 8E.7.A-2	BREAKING VACUUM ON THE MAIN CONDENSER	0	08/01/90	S	
SSPT-SO 8F.6.A-2	PLACING THE STANDBY STEAM PACKING EXHAUSTER IN SERVICE & REMOVING THE OPERATION	0	09/05/90	S	
SSPT-SO 8G.6.B-2	PLACING THE STANDBY DG REFRIGERATION MCHNE IN SERVICE & PLACING THE IN SRCE MCHNE OF	0	09/05/90	S	
SSPT-SO 94F.8.A-2	UNIT 2 SUPPRESSION POOL TEMP. MONITORING SYS. ROUTINE INSPECTION	0	09/04/90	S	
SSPT-SO 9A.1.A	STANDBY GAS TREATMENT SYSTEM LINEUP FOR AUTOMATIC OPERATION	0	07/16/90	S	
SSPT-SO 9A.1.B	STANDBY GAS TREATMENT SYSTEM AUTOMATIC OPERATION	1	07/18/90	S	
SSPT-SO 9A.1.C	RESPONSE TO STANDBY GAS TREATMENT SYSTEM AUTOMATIC START	1	08/23/90	S	

PERFORMANCE TEST	PERFORMANCE TEST TITLE	TEST REVISION NUMBER	DATE OF LAST TEST	RESULTS OF TEST	WORK ORDER NUMBER/PRIORITY
SSPT-SO 9A.2.A	STANDBY GAS TREATMENT SYSTEM SHUTDOWN FOLLOWING AN AUTOMATIC START	1	08/22/90	S	
SSPT-SO 9A.2.B	STANDBY GAS TREATMENT SYSTEM SHUTDOWN FOLLOWING A MANUAL START	0	07/19/90	S	
SSPT-SO 9A.7.B	STANDBY GAS TREATMENT SYSTEM RESTORATION FROM REACTOR BLDG VENTILLATION SYS OPRT	0	08/27/90	S	
SSPT-SO 9A.7.C	STANDBY GAS TREATMENT SYSTEM MANUAL STARTUP ON REFUEL FLOOR VENTILLATION	0	08/27/90	S	
SSPT-SO 9A.7.D	STANDBY GAS TREATMENT SYSTEM RESTORATION FROM REFUEL FLOOR VENT SYSTEM OPERATION	0	08/27/90	S	
SSPT-SO 9A.7.F	STANDBY GAS TREATMENT SYSTEM RESTORATION FROM REFUEL FLR & REACTOR BLDG VENT SYS	0	08/27/90	S	
SSPT-SO 9A.7.H	STANDBY GAS TREATMENT SYSTEM RESTORATION FROM EQUIPMENT CELL EXHAUST OPERATIONS	0	08/27/90	S	
SSPT-SO 9A.8.A	STANDBY GAS TREATMENT SYSTEM ROUTINE RUNNING INSPECTION	0	08/22/90	S	
SSPT-SO 9A.8.B	STANDBY GAS TREATMENT SYSTEM ROUTINE SHUTDOWN INSPECTION	0	08/22/90	S	
SSPT-ST-1.10	ROD WITHDRAW BLOCK LOGIC SYSTEM FUNCTIONAL	5	08/13/90	S	
SSPT-ST-1.13-2	CAD SYSTEM FUNCTIONAL TEST	3	08/21/90	S	
SSPT-ST-10.16	HPCI SYSTEM FUNCTIONAL FROM THE ALTERNATIVE CONTROL PANELS	3	08/21/90	S	
SSPT-ST-10.2	RCIC FLOW RATE AT 150 PSIG STEAM PRESSURE, RCIC REMOTE SHUTDOWN PANEL CNTRLS	8	07/23/90	S	
SSPT-ST-10.3-2	AUTOMATIC DEPRESSURIZATION SYSTEM, SIMULATED AUTOMATIC ACTUATION TEST	0	08/05/90	S	

PERFORMANCE TEST	PERFORMANCE TEST TITLE	TEST REVISION NUMBER	DATE OF LAST TEST	RESULTS OF TEST	WORK ORDER NUMBER/ PRIORITY
SSPT-ST-10.5	RWM OPERABILITY CHECK	15	07/20/90	S	
SSPT-ST-10.8	CONTROL ROD WITHDRAW TESTS	13	08/06/90	S	
SSPT-ST-10.8.1	CRD COUPLING INTEGRITY TEST	1	07/22/90	S	
SSPT-ST-11.1-2	CORE SPRAY SIMULATED AUTOMATIC ACTUATION TEST	0	08/05/90	S	
SSPT-ST-11.2-2	LPCI SIMULATED AUTOMATIC ACTUATION TEST	0	08/05/90	S	
SSPT-ST-11.3-2	HPCI SIMULATED AUTOMATIC ACTUATION TEST	1	08/05/90	S	
SSPT-ST-11.4-2	RCIC SIMULATED AUTOMATIC ACTUATION TEST	1	08/05/90	S	
SSPT-ST-11.5A-2	PCIS SIMULATED AUTOMATIC ACTUATION TEST	4	08/22/90	S	
SSPT-ST-11.7	ROD WITHDRAW BLOCK SIMULATED AUTOMATIC ACTUATION TEST	7	07/25/90	S	
SSPT-ST-12.6-1	PRIMARY CONTAINMENT DRYWELL TO TORUS BYPASS TEST	11	08/22/90	S	
SSPT-ST-12.8	RECIRCULATION SYSTEM BASELINE DATA - 1 & 2 LOOP OPERATION	3	08/15/90	S	
SSPT-ST-12.8-1	RECIRCULATION SYSTEM BASELINE DATA - SINGLE LOOP OPERATION	0	08/13/90	S	
SSPT-ST-13.1.1-2A	UNIT 2 ARI/RPT LOGIC SYSTEM FUNCTIONAL CHANNEL A	2	08/14/90	S	
SSPT-ST-13.1.1-2B	UNIT 2 ARI/RPT LOGIC SYSTEM FUNCTIONAL CHANNEL B	3	08/14/90	S	
SSPT-ST-13.16-2	FUNCTIONAL TEST OF HPSW PUMP BAY LEVEL CONTROLLERS LC-2804 A&B	0	08/22/90	S	
SSPT-ST-13.21	EMERGENCY COOLING WATER PUMP, EMERGENCY COOLING TOWER FANS, ESW BSTR PMP OPBLTY	13	08/23/90	S	
SSPT-ST-13.21.1	ESW PUMP, ECT FANS, ESW BOOSTER PUMP OPERABILITY IST	2	08/23/90	S	
SSPT-ST-13.23	EMERGENCY COOLING WATER PUMP, M.O. VALVE FUNCTIONAL (1ST)	11	08/22/90	S	

PERFORMANCE TEST	PERFORMANCE TEST TITLE	TEST REVISION NUMBER	DATE OF LAST TEST	RESULTS OF TEST	WORK ORDER NUMBER/ PRIORITY
SSPT-ST-13.28	ADS RELIEF VALVE SOLENOID VALVE & BACKUP N2 SUPPLY VALVE FUNCTIONAL	10	08/27/90	S	
SSPT-ST-13.28.1	PRESSURIZATION VERIFICATION OF ADS BACKUP NITROGEN PIPING DOWNSTREAM OF SV-8(9)	0	08/22/90	S	
SSPT-ST-13.29	LPCI CROSS CONNECT VALVE POSITION	2	08/22/90	S	
SSPT-ST-13.4	MODE SWITCH IN SHUTDOWN FUNCTIONAL TEST	5	07/19/90	S	
SSPT-ST-13.60	TIP MACHINE ALIGNMENT VERIFICATION	2	08/27/90	S	
SSPT-ST-21.11	SLUICE GATE OPERABILITY OF MO-2233A,B	3	08/22/90	S	
SSPT-ST-21.15	SLUICE GATE OPERABILITY MO-2209	1	08/22/90	S	
SSPT-ST-21.6.3	RHR HEAT EXCHANGER PERFORMANCE TEST	0	08/27/90	S	
SSPT-ST-23.3	FEEDWATER STOP VALVE MO2(3)-2-29A ALTERNATIVE CONTROL	0	08/20/90	S	
SSPT-ST-23.4	ALTERNATIVE CONTROL POWE SUPPLY & TEST CIRCUITRY	2	08/19/90	S	
SSPT-ST-26.1-2	FEEDWATER CONTROL LOOP STABILITY/RESPONSE TEST	1	08/14/90	S	
SSPT-ST-26.6-2	RECIRCULATION CONTROLLER STABILITY TESTING	0	08/18/90	S	
SSPT-ST-26.7-2	PRESSURE REGULATOR STABILITY TEST	1	08/18/90	S	
SSPT-ST-3.1.2	SRM CORE MONITORING TEST	12	07/17/90	S	
SSPT-ST-3.108	CORE STABILITY MONITORING	1	08/03/90	S	
SSPT-ST-3.2.2	IRM/APRM COMPARISON	6	07/30/90	S	
SSPT-ST-3.3.2	CALIBRATION OF THE APRM SYSTEM	16	07/24/90	S	

PERFORMANCE TEST	PERFORMANCE TEST TITLE	TEST REVISION NUMBER	DATE OF LAST TEST	RESULTS OF TEST	WORK ORDER NUMBER/ PRIORITY
SSPT-ST-3.3.2A	CALIBRATION OF THE APRM SYSTEM & THERMAL LIMIT CHECK FOR SINGLE LOOP OPERATIONS	9	08/03/90	S	
SSPT-ST-3.3.2B	CALIBRATION OF THE APRM SYS & THERMAL LIMIT CHK FOR NATURAL CIRC OPERATION	3	08/03/90	S	
SSPT-ST-3.7-2	REACTOR ANOMALIES-UNIT 2	29	08/21/90	S	
SSPT-ST-3.8.2	SHUTDOWN MARGIN (U/2 - CYCLE B)	7	07/20/90	S	
SSPT-ST-3.9	CRITICAL EIGEN VALUE COMPARISON	7	07/22/90	S	
SSPT-ST-4.10-2	FUNCTIONAL TEST OF LEVEL INDICATORS	2	08/07/90	S	
SSPT-ST-4.11-2	A LPCI LINE VENT ACCUMULATOR & HEAD SPRAY ACCUMULATOR SWITCH FUNCTIONAL CHECK	3	07/18/90	S	
SSPT-ST-4.12-2	B LPCI LINE VENT ACCUMULATOR LEVEL SWITCH FUNCTIONAL CHECK UNIT 2	4	07/18/90	S	
SSPT-ST-4.13A	A CORE SPRAY LINE VENT ACCUMULATOR LEVEL SWITCH FUNCTIONAL CHECK	4	07/17/90	S	
SSPT-ST-4.13B	B CORE SPRAY LINE VENT ACCUMULATOR LEVEL SWITCH FUNCTIONAL CHECK	3	07/17/90	S	
SSPT-ST-4.3	OFF-GAS RADIATION MONITOR FUNCTIONAL TEST	9	08/21/90	S	
SSPT-ST-4.4.1	MAIN STACK RAD MONITOR CHECK SOURCE RESPONSE VERIFICATION	9	08/21/90	S	
SSPT-ST-6.10.1-2	CONTAINMENT COOLING SYSTEMS OPERABILITY	1	08/23/90	S	
SSPT-ST-6.11-B	RCIC TORUS SUCTION CHECK VALVE OPERABILITY INSERVICE TEST	7	08/13/90	S	
SSPT-ST-6.14	RIVER TEMPERATURE MONITORING	21	07/26/90	S	
SSPT-ST-6.15-2	RECIRC. PUMP DISCHARGE VALVE OPERABILITY MO-2-02-53A & B	1	07/16/90	S	

PERFORMANCE TEST	PERFORMANCE TEST TITLE	TEST REVISION NUMBER	DATE OF LAST TEST	RESULTS OF TEST	WORK ORDER NUMBER/ PRIORITY
SSPT-ST-6.25-2	RHR/HPSW CROSSTIE FUNCTIONAL TEST	1	08/22/90	S	
SSPT-ST-6.3	ESW PUMP, VALVE, FLOW, COOLER	22	07/19/90	S	
SSPT-ST-6.4	MAIN STEAM ISOLATION VALVE CLOSURE TIMING	21	08/07/90	S	
SSPT-ST-6.5-2	HPCI PUMP, VALVE, FLOW, COOLER	8	09/07/90	S	
SSPT-ST-6.5.1	HPCI AUXILIARY OIL PUMP SURVEILLANCE	6	08/07/90	S	
SSPT-ST-6.5F-2	HPCI PUMP, VALVE, FLOW, COOLER	4	09/07/90	S	
SSPT-ST-6.6.1	DAILY CORE SPRAY "A" PUMP, VALVE, FLOW, AND COOLER TEST - UNIT 2	17	08/07/90	S	
SSPT-ST-6.7.1	DAILY CORE SPRAY "B" SYSTEM & COOLER OPERABILITY	20	08/07/90	S	
SSPT-ST-6.8.1	DAILY RHR "A" SYSTEM AND UNIT COOLER OPERABILITY	26	08/07/90	S	
SSPT-ST-6.9.1	DAILY RHR "B" SYSTEM AND UNIT COOLER OPERABILITY	29	08/07/90	S	
SSPT-ST-9.1-2Y	THE SURVEILLANCE LOG (HOT SHUTDOWN, STARTUP/HOT STANDBY OR RUN MODE)	18	08/02/90	S	
SSPT-ST-9.1-2Z	THE SURVEILLANCE LOG (HOT SHUTDOWN, STARTUP/HOT STANDBY OR RUN MODE)	24	08/02/90	S	
SSPT-ST-9.1.A-2X	THE SURVEILLANCE LOG (REFUEL OR COLD SHUTDOWN MODE)	1	08/02/90	S	
SSPT-ST-9.1.A-2Y	THE SURVEILLANCE LOG (REFUEL OR COLD SHUTDOWN MODE)	1	08/02/90	S	
SSPT-ST-9.1.A-2Z	THE SURVEILLANCE LOG (REFUEL OR COLD SHUTDOWN MODE)	5	08/02/90	S	
SSPT-ST-9.12	REACTOR VESSEL TEMPERATURES	15	07/24/90	S	
SSPT-ST-9.12A	TORUS WATER TEMPERATURES	1	08/21/90	S	
SSPT-ST-9.12B	REACTOR COOLANT TEMPERATURES	4	07/18/90	S	

PERFORMANCE TEST	PERFORMANCE TEST TITLE	TEST REVISION NUMBER	DATE OF LAST TEST	RESULTS OF TEST	WORK ORDER NUMBER/ PRIORITY
SSPT-ST-9.12C	REACTOR VESSEL HEAD FLANGE TEMPERATURE SURVEILLANCE	3	08/01/90	S	
SSPT-ST-9.12D-2	DRYWELL TEMPERATURE MONITORING UNIT 2	2	07/25/90	S	
SSPT-ST-9.14	TURBINE CONTROL VALVE FAST CLOSURE SCRAM FUNCTIONAL	30	07/25/90	S	
SSPT-ST-9.16-2	CONTAINMENT GROSS LEAK RATE DETECTION	0	08/20/90	S	
SSPT-ST-9.17-2	REACTOR COOLANT LEAKAGE TEST	6	07/20/90	S	
SSPT-ST-9.19.2-2	1ST TEST OF CAD VALVES	4	08/22/90	S	
SSPT-ST-9.2	CONTROL ROD EXERCISE	21	07/26/90	S	
SSPT-ST-9.2.3	OPERATIONAL TEST OF THE INLET AND OUTLET SCRAM VALVES	0	09/09/90	S	
SSPT-ST-9.22-2A	SCRAM DISCHARGE VOLUME DRAIN AND VENT VALVE STROKING	1	07/19/90	S	
SSPT-ST-9.3	MANUAL SCRAM	6	07/19/90	S	
SSPT-ST-9.34-2	PRIMARY CONTAINMENT PURGE/VENT ISOLATION VALVE CUMULATIVE HOUR LOG - 1/2	1	08/01/90	S	
SSPT-ST-9.35	STANDBY GAS TREATMENT FILTER TRAIN OPERATION LOG	0	07/19/90	S	
SSPT-ST-9.4	TURBINE STOP VALVE CLOSURE FUNCTIONAL	30	07/24/90	S	
SSPT-ST-9.7	MSIV PARTIAL CLOSURE	12	08/07/90	S	
SSPT-ST-9.7.1	MSIV PARTIAL CLOSURE & RPS INPUT FUNCTIONAL TEST	0	08/13/90	S	
SSPT-STABILITY/MASS BAL	SIMULATOR STABILITY AND MASS BALANCE TEST		01/05/91	S	
SSPT-T-100	SCRAM	D	10/30/90	S	
SSPT-T-103	SECONDARY CONTAINMENT CONTROL	D	11/08/90	S	
SSPT-T-104	RADIOACTIVITY RELEASE	D	11/08/90	S	
SSPT-T-116	RPV FLOODING	D	11/07/90	S	

PERFORMANCE TEST	PERFORMANCE TEST TITLE	TEST REVISION NUMBER	DATE OF LAST TEST	RESULTS OF TEST	WORK ORDER NUMBER/ PRIORITY
SSPT-T-200	PRIMARY CONTAINMENT VENTING - PROCEDURE	D	11/06/90	S	
SSPT-T-201B	PRIMARY CONTAINMENT NITROGEN PURGE FOR HYDROGEN CONCENTRATIONS LESS THAN 6% U/2	D	11/06/90	S	
SSPT-T-202	PRI. CONTAIN. PURGE FOR HYDROGEN & OXYGEN CONCENTRATIONS > FLAMMABILITY LIMITS	D	11/06/90	S	
SSPT-T-203	INITIATION OF TORUS SPRAYS USING RHR	D	11/05/90	S	
SSPT-T-204	INITIATION OF DRYWELL SPRAYS USING RHR	D	11/05/90	S	
SSPT-T-205	INITIATION OF CONTAINMENT SPRAYS USING HPSW	D	11/05/90	S	
SSPT-T-210	CRD SYSTEM SBLC INJECTION	D	10/31/90	S	
SSPT-T-213	SCRAM SOLENOID DEENERGIZATION	D	11/31/90	S	
SSPT-T-214	ISOLATING & VENTING SCRAM AIR HEADER	D	10/31/90	S	
SSPT-T-215	CONTROL ROD INSERTION BY WITHDRAW LINE VENTING	D	10/31/90	S	
SSPT-T-216	CONTROL POD INSERTION BY MANUAL SCRAM OR INDIVIDUAL SCRAM TEST SWITCHES	D	10/31/90	S	
SSPT-T-221	MAIN STEAM ISOLATION VALVE BYPASS	2	11/01/90	S	
SSPT-T-222	SECONDARY CONTAINMENT VENTILATION BYPASS PROCEDURE	D	11/08/90	S	
SSPT-T-223	DRYWELL COOLER FAN BYPASS PROCEDURE	D	11/08/90	S	
SSPT-T-228	DEFEATING ARI LOGIC TRIPS	D	10/31/90	S	
SSPT-T-230	TORUS TO CST BY WAY OF HPCI/RCIC	D	10/31/90	S	
SSPT-T-231	HPSW INJECTION INTO THE TORUS	D	11/02/90	S	

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SSPT-T-232	TORUS WATER FILTER PUMP ISOLATION BYPASS	D	11/02/90	S	
SSPT-T-240	TERMINATION & PREVENTION OF INJECTION IN THE RPV	D	11/01/90	S	
SSPT-T-244	ALTERNATE INJECTION USING THE SBLC TEST TANK	D	11/01/90	S	
SSPT-T-245	HPSW INJECTION INTO THE RPV	D	11/01/90	S	
SSPT-T-261	PLACING THE BACKUP INSTRUMENT NITROGEN SUPPLY FROM CAD TANK IN SERVICE	D	11/01/90	S	
SSPT-T-262	FLOODING CONTAINMENT USING CORE SPRAY	D	11/07/90	S	
SSPT-T-99	POST SCRAM RESTORATION	D	10/30/90	S	
STPT-MFS02	SIMULTANEOUS TRIP OF ALL FEED PUMPS		01/05/91	S	
STPT-MSS06T	MSIV CLOSURE WITH FAILED OPEN SRV AND NO H ^o ECCS		01/05/91	S	
STPT-PWRRAMP	MAX RATE POWER RAMP FROM 100% TO 75% TO 100%		01/05/91	S	
STPT-SCRAM	MANUAL SCRAM		01/05/91	S	
STPT-SP-1232	REACTOR FEEDWATER PUMP TRIP	0	01/05/91	S	
STPT-SP-1233	TURBINE TRIP WITHIN BYPASS VALVE CAPACITY	0	01/05/91	S	
SMPT-ANN01	CONTROL ROOM ANNUNCIATOR SYSTEM FAILURE	3	09/19/90	U	900554 - 2
SMPT-APR04	APRM CHANNEL AVERAGE CIRCUIT DEVIATION	2	09/20/90	U	900539 - 2
SMPT-CAS01	LOSS OF INSTRUMENT AIR	2	09/18/90	U	900544 - 2
SMPT-CRH01	FLOW CONTROL VALVE FAILURE	2	09/10/90	U	900085 - 2
SMPT-CRH04	CONTROL ROD DRIFTS IN		09/09/90	U	900510 - 2
SMPT-CRH05	CONTROL ROD ACCUMULATOR TROUBLE	1	09/19/90	U	900538 - 2

PERFORMANCE TEST	PERFORMANCE TEST TITLE	TEST REVISION NUMBER	DATE OF LAST TEST	RESULTS OF TEST	WORK ORDER NUMBER/ PRIORITY
SMPT-CRH06	CRD STABILIZING VALVE FAILS CLOSED	2	09/19/90	U	900553 - 2
SMPT-CRH07	LOSS OF AIR PRESSURE TO CRD HCU'S	1	09/10/90	U	900558 - 2
SMPT-CRM04	CONTROL ROD RP15 FAILURE		09/09/90	U	900509 - 2 900506 - 1
SMPT-CSS01	CORE SPRAY PUMP TRIP	1	09/23/90	U	900548 - 3
SMPT-CWS02	MAIN CIRC WATER PUMP TRIP	2	09/23/90	U	900549 - 1
SMPT-CWS03	MAIN CONDENSER TUBE BLOCKAGE	2	09/23/90	U	900556 - 1
SMPT-CWS05	COOLING TOWER FANS TRIP	2	09/23/90	U	900557 - 3
SMPT-CWS06	TRAVELING SCREEN BLOCKAGE	2	09/23/90	U	900523 - 3 900525 - 3
SMPT-CWS07	TRASH RACKS BLOCKAGE	1	09/25/90	U	900524 - 2 900540 - 1
SMPT-DCD018	250 VDC DIST. PANEL 20011 FAULT		10/18/90	U	900589 - 2
SMPT-DCD01D	250 VDC DIST. PANEL 20D08 FAULT		10/18/90	U	900590 - 2
SMPT-DCD02A	125 VDC DISTRIBUTION PANEL 2PPA FAULT		10/19/90	U	900595 - 2 900596 - 2 900597 - 3 900598 - 2 900323 - 2
SMPT-DCD02B	125 VDC DISTRIBUTION PANEL 2PPA FAULT		10/19/90	U	900599 - 2 900600 - 2 900601 - 3 900602 - 2 900603 - 3 900604 - 2 900746 - 2
SMPT-DCD02C	125 VDC DISTRIBUTION PANEL 2PPC FAULT		10/24/90	U	900745 - 2 900747 - 2 900734 - 2
SMPT-DCD02D	125 VDC DISTRIBUTION PANEL 2PPD FAULT		10/24/90	U	900744 - 2 900590 - 2

PERFORMANCE TEST	PERFORMANCE TEST TITLE	TEST REVISION NUMBER	DATE OF LAST TEST	RESULTS OF TEST	WORK ORDER NUMBER/ PRIORITY
SMPT-DCD03A	24 VDC DISTRIBUTION PANEL BUS 2E FAULT		10/22/90	U	900637 - 2 900638 - 2
SMPT-DCW01	DW CHILLER WATER PUMP TRIP	2	09/25/90	U	900520 - 2
SMPT-DCW04	DWCW LEAKAGE INSIDE THE DRYWELL	1	09/10/90	U	900546 - 2 900595 - 1
SMPT-DGA03	DIESEL GENERATOR TRIP	2	09/25/90	U	900519 - 2
SMPT-EH_02	PRESSURE REGULATOR FAILS LOW		09/09/90	U	900515 - 2
SMPT-EHL05	LOAD SET FAILURE	2	09/18/90	U	900543 - 2
SMPT-EHL06	LOAD RUNBACK FAILS TO TERMINATE	2	09/18/90	U	900541 - 2 900542 - 2
SMPT-ESD03	FW HEATER LEVEL CONTROL VALVE FAILS CLOSED	2	09/25/90	U	900522 - 2
SMPT-ESW01	ESW PUMP TRIP	2	09/26/90	U	890291 - 2
SMPT-FCR01	FUEL CLADDING FAILURE	1	09/20/90	U	900527 - 1 900515 - 2
SMPT-FPS01	CARDOX INJECTION TO THE DIESEL GENERATOR ROOM	1	09/26/90	U	900579 - 2 900580 - 2
SMPT-FWC02	RFP MASTER CONTROLLER FAILURE	2	09/17/90	U	900514 - 2
SMPT-FWC07	FWC FUNCTION GENERATOR FAILS LOW	2	08/31/90	U	900444 - 2
SMPT-HPC03	HPCI TURBINE TRIP	1	09/27/90	U	900577 - 3
SMPT-H_09	HPCI LUBE OIL SYSTEM FAILURE	1	09/27/90	U	900578 - 2
SMPT-HSD01	HYDROGEN SEAL OIL PRESSURE DECREASE	1	09/27/90	U	900540 - 1
SMPT-IMP01	LOSS OF ALL AC POWER	2	10/01/90	U	900458 - 2 900666 - 2
SMPT-IMP02	THREE MILE ISLAND ACCIDENT (BWR EQUIVALENT)	2	10/01/90	U	900565 - 1
SMPT-IMP03	ANTICIPATED TRANSIENT WITHOUT SCRAM (ATWS)	2	10/01/90	U	900586 - 1

PERFORMANCE TEST	PERFORMANCE TEST TITLE	TEST REVISION NUMBER	DATE OF LAST TEST	RESULTS OF TEST	WORK ORDER NUMBER/PRIORITY
SMPT-IMP04	FIRE IN THE REMOTE SHUTDOWN PANEL	1	10/01/90	U	900584 - 2
SMPT-MAP04	13.2 KV BUS FAULT	2	10/02/90	U	900563 - 2
SMPT-MAP05C	STARTUP SOURCES BUS FAULT	1	10/02/90	U	900566 - 2
SMPT-MAP06C	13.2 KV BREAKER TRIP	2	10/02/90	U	900588 - 3
SMPT-MAP07A	4.16 KV EMERGENCY BUS E12 (20A15) FAULT		10/22/90	U	900636 - 2 900635 - 2
SMPT-MAP07B	4.16 KV EMERGENCY BUS E22 (20A16) FAULT		10/22/90	U	900636 - 2 900635 - 2 900633 - 1
SMPT-MAP07C	4.16 KV EMERGENCY BUS E32 (20A17) FAULT		10/22/90		900636 - 2 900635 - 2
SMPT-MAP07D	4.16 KV EMERGENCY BUS E42 (20A18) FAULT		10/22/90	U	900636 - 2 900635 - 2
SMPT-MAP07E	4.16 KV EMERGENCY BUS E-13 FAULT		10/22/90	U	900636 - 2 900635 - 2
SMPT-MAP07F	4.16 KV EMERGENCY BUS E-23 FAULT		10/22/90	U	900636 - 2 900635 - 2
SMPT-MAP07G	4.16 KV EMERGENCY BUS E-33 FAULT		10/22/90	U	900636 - 2 900635 - 2
SMPT-MAP07H	4.16 KV EMERGENCY BUS E-43 FAULT		10/22/90	U	900636 - 2 900635 - 2
SMPT-MAP08	4.16 KV BUS AUTO TRANSFER FAILURE	2	10/02/90	U	900568 - 1
SMPT-MCS01	MAIN CONDENSER TUBE LEAKAGE	2	10/02/90	U	900562 - 3 900560 - 2
SMPT-MCS03	HOTWELL LEVEL TRANSMITTER FAILS LOW	1	10/02/90	U	900564 - 2
SMPT-MCS06	CONDENSATE DEMIN RESIN DEPLETION	2	10/02/90	U	900562 - 3
SMPT-MCS07	CONDENSATE FILTER/DEMIN RESIN INJECTION	2	09/17/90	U	900512 - 3 900511 - 3
SMPT-MCS08	EXHAUST HOOD SPRAY VALVE FAILS CLOSED	2	10/03/90	U	900572 - 2

PERFORMANCE TEST	PERFORMANCE TEST TITLE	TEST REVISION NUMBER	DATE OF LAST TEST	RESULTS OF TEST	WORK ORDER NUMBER/PRIORITY
SMPT-MFS03	REACTOR FEEDWATER PUMP LOSS OF LUBE OIL	2	10/03/90	U	900573 - 3
SMPT-MFS05	REACTOR FEEDWATER PUMP MINIMUM FLOW VALVE FAILS CLOSED	1	09/05/90	U	900462 - 2
SMPT-MLO01	MAIN TURBINE BEARING OIL PRESSURE DECREASE	1	10/03/90	U	900570 - 2
SMPT-MSS03	MSL RUPTURE OUTSIDE THE PRIMARY CONTAINMENT	2	10/04/90	U	900779 - 3
SMPT-MSS04	MAIN STEAM HEADER PRESSURE TRANSMITTER PT-2184/PT-2145 FAILURE	2	09/17/90	U	900515 - 2 900514 - 2 900513 - 1
SMPT-MSS05	MSIV DISC FAILURE	2	09/17/90	U	900587 - 1
SMPT-MSS06	MSIV FAILS CLOSED	2	09/17/90	U	900587 - 1
SMPT-MSS13	STEAM LEAKAGE OUTSIDE CONTAINMENT	1	10/04/90	U	900021 - 1 900583 - 2
SMPT-MTA01	MAIN TURBINE BEARING HIGH TEMPERATURE	1	10/04/90	U	900581 - 2 900582 - 2
SMPT-KTA03	TURBINE HP VALVE FAILS CLOSED	1	10/04/90	U	900575 - 2
SMPT-PCS02	COOLANT LEAKAGE OUTSIDE THE PRIMARY CONTAINMENT	2	09/14/90	U	900516 - 3 900517 - 3
SMPT-PCS04	DW PRESSURE TRANSMITTER PT-5-12 FAILURE	2	10/09/90	U	900668 - 2
SMPT-RBV01	STEAM TUNNEL VENTILATION FAN TRIP	1	09/10/90	U	900430 - 2
SMPT-RBW02	RBCCW HEAT EXCHANGER TUP LEAK	2	10/09/90	U	900670 - 2
SMPT-RBW03	RBCCW NON-ESSENTIAL LOAD VALVE AO-2253 FAILS CLOSED	1	10/09/90	U	900669 - 2
SMPT-RBW04	RBCCW HEAT EXCHANGER SERVICE WATER FLOW BLOCKAGE	1	10/10/90	U	900660 - 2
SMPT-RC101	RCIC TURBINE CONTROL OIL PRESSURE LOSS	1	10/10/90	U	900662 - 1 900663 - 1 900526 - 1

PERFORMANCE TEST	PERFORMANCE TEST TITLE	TEST REVISION NUMBER	DATE OF LAST TEST	RESULTS OF TEST	WORK ORDER NUMBER/ PRIORITY
SMPT-RC105	RCIC FLOW CONTROLLER AUTO CIRCUIT FAILS HIGH	1	10/10/90	U	900662 - 1 900663 - 1 900526 - 1
SMPT-RHR01	RHR PUMP TRIP	1	10/10/90	U	
SMPT-RHR02	RHR HEAT EXCHANGER TUBE LEAK	2	10/10/90	U	900664 - 2
SMPT-RRS06	RECIRC FLOW UNIT OSCILLATION	1	10/11/90	U	900086 - 2
SMPT-RRS09	RECIRC MG FIELD BREAKER TRIP		10/11/90	U	900656 - 3
SMPT-RRS11	RECIRC PUMP HIGH VIBRATION	2	10/11/90	U	900657 - 2
SMPT-RRS17	RECIRC MG CONTROL SIGNAL FAILURE	1	10/12/90	U	900651 - 3
SMPT-PRS19	RECIRC JET PUMP RISER FAILURE	2	09/10/90	U	900559 - 2
SMPT-RRS20	RECIRCULATION LOOP RUPTURE	2	10/17/90	U	910016 - 2 900773 - 1
SMPT-RV108	REFERENCE LINE BREAK-WIDE RANGE LEVEL		10/16/90	U	900652 - 2
SMPT-RWC02	RWCU NONREGENERATIVE HEAT EXCHANGER LEAK	2	10/12/90	U	900650 - 2
SMPT-RWC06	RWCU INLET PIPING RUPTURE	1	11/07/90	U	900707 - 2 900708 - 2
SMPT-RWM01	RWM TOTAL FAILURE	1	10/15/90	U	900035 - 2
SMPT-SWC01	LOSS OF STATOR WATER COOLING LOW	2	09/18/90	U	900543 - 2 900540 - 1 900456 - 1
SMPT-SWS02	SERVICE WATER PUMP STRUCTURE GATE FAILS CLOSED		10/17/90	U	900593 - 2 900645 - 2
SMPT-TBW01	TBCCW PUMP TRIP	2	08/27/90	U	900034 - 1
SMPT-TBW02	TBCCW HEAT EXCHANGER TUBE LEAK		10/17/90	U	900654 - 2 900642 - 3
SMPT-TSW04	TBCCW VALVE AO-2352 FAILS TO REPOSITION		10/17/90	U	900640 - 1 900084 - 2
SMPT-TIP01	TIP DETECTOR STUCK		10/17/90	U	900647 - 2
SMPT-TIP02	TIP IN CORE GUIDE TUBE RUPTURE		10/17/90	U	900643 - 1

PERFORMANCE TEST	PERFORMANCE TEST TITLE	TEST REVISION NUMBER	DATE OF LAST TEST	RESULTS OF TEST	WORK ORDER NUMBER/ PRIORITY
SMPT-VAC01A	480 VAC BUS A54 FAULT		10/21/90	U	900530 - 2 900631 - 2 900632 - 2 900629 - 2
SMPT-VAC01B	480 VAC BUS B54 FAULT		10/21/90	U	900627 - 2 900628 - 2
SMPT-VAC01C	480 VAC BUS A14 FAULT		10/22/90	U	900609 - 3 900626 - 2
SMPT-VAC01D	480 VAC BUS B14 FAULT		10/22/90	U	900607 - 2 900608 - 3
SMPT-VAC01E	480 VAC BUS A24 FAULT		10/22/90	U	900609 - 3 900625 - 2
SMPT-VAC01F	480 VAC BUS B24 FAULT		10/22/90	U	900608 - 3 900624 - 2
SMPT-VAC01G	480 VAC BUS A34 FAULT		10/22/90	U	900609 - 3 900622 - 2
SMPT-VAC01H	480 VAC BUS B34 FAULT		10/22/90	U	900608 - 3 900623 - 2
SMPT-VAC01I	480 VAC BUS 1R4 FAULT		10/22/90	U	900458 - 2 900606 - 2 900621 - 2
SMPT-VAC01J	480 VAC BUS 2R4 FAULT		10/22/90	U	900458 - 2 900620 - 2
SMPT-VAC01K	480 VAC BUS 1G4 FAULT		10/22/90	U	900458 - 2 900611 - 2
SMPT-VAC01L	480 VAC BUS 2G4 FAULT		10/22/90	U	900458 - 2 900619 - 3
SMPT-VAC01M	480 VAC BUS 1T4 FAULT		10/22/90	U	900458 - 2 900617 - 3 900618 - 2
SMPT-VAC01N	480 VAC BUS 2T4 FAULT		10/22/90	U	900458 - 2 900605 - 2
SMPT-VAC01O	480 VAC BUS 1P54 FAULT		10/22/90	U	900458 - 2 900615 - 2 900616 - 2

PERFORMANCE TEST	PERFORMANCE TEST TITLE	TEST REVISION NUMBER	DATE OF LAST TEST	RESULTS OF TEST	WORK ORDER NUMBER/ PRIORITY
SMPT-VAC01P	480 VAC BUS 3P54 FAULT		10/22/90	U	900614 - 2
SMPT-VAC01Q	480 VAC BUS 2P54 FAULT		10/23/90	U	900458 - 2 900613 - 2
SMPT-VAC01R	480 VAC BUS 4P54 FAULT		10/23/90	U	900458 - 2 900612 - 2
SMPT-VAC02A	480 VAC EMERGENCY BUS E124 FAULT		10/23/90	U	900778 - 2 900765 - 2
SMPT-VAC02B	480 VAC EMERGENCY BUS E224 FAULT		10/23/90	U	900778 - 2 900765 - 2
SMPT-VAC02C	480 VAC EMERGENCY BUS E324 FAULT	2	10/24/90	U	900778 - 2 900765 - 2
SMPT-VAC02D	480 VAC EMERGENCY BUS E424 FAULT	2	10/25/90	U	900778 - 2 900765 - 2
SMPT-VAC02E	480 VAC EMERGENCY BUS E13A4 FAULT	2	10/25/90	U	900634 - 2 900778 - 2 900765 - 2
SMPT-VAC02F	480 VAC EMERGENCY BUS E23A4 FAULT	2	10/25/90	U	900634 - 2 900778 - 2 900765 - 2
SMPT-VAC02G	480 VAC EMERGENCY BUS E43A4 FAULT	2	10/25/90	U	900778 - 2 900765 - 2
SMPT-VAC03AA	480 VAC MCC E424-T-B FAULT	2	10/25/90	U	900733 - 2 900732 - 3
SMPT-VAC03BB	480 VAC MCC E424-D-A FAULT	2	10/25/90	U	900730 - 3
SMPT-VAC03C1	480 VAC MCC 3P54-M-A FAULT	1	10/30/90	U	900614 - 2
SMPT-VAC03D1	480 VAC MCC 3P54-V-A FAULT	2	10/30/90	U	900695 - 2
SMPT-VAC03D0	480 VAC MCC 1R4-T-A FAULT	2	10/30/90	U	900621 - 2
SMPT-VAC03F1	480 VAC MCC 4P54-U-C FAULT	2	10/30/90	U	900694 - 3 900692 - 2
SMPT-VAC03I	480 VAC MCC A34-Y-A FAULT	2	10/30/90	U	900743 - 3
SMPT-VAC03J	480 VAC MCC E124-R-C FAULT		10/23/90	U	900639 - 2
SMPT-VAC03K	480 VAC MCC E124-T- FAULT		10/23/90	U	900763 - 2

PERFORMANCE TEST	PERFORMANCE TEST TITLE	TEST REVISION NUMBER	DATE OF LAST TEST	RESULTS OF TEST	WORK ORDER NUMBER/ PRIORITY
SMPT-VAC03N	480 VAC MCC E124-D-A FAULT		10/23/90	U	900767 - 2
SMPT-VAC03O	480 VAC MCC E224-R-B FAULT		10/23/90	U	900766 - 2
SMPT-VAC03PP	480 VAC MCC 114-T-B FAULT	2	10/30/90	U	900617 - 3
SMPT-VAC03R	480 VAC MCC E224-B-A FAULT	2	10/23/90	U	900764 - 2
SMPT-VAC03S	480 VAC MCC E324-R-B FAULT	2	10/23/90	U	900762 - 2
SMPT-VAC03V	480 VAC MCC E324-T-B FAULT	2	10/24/90	U	900760 - 3
SMPT-VAC03VV	480 VAC MCC 1P84-V-A FAULT	2	10/30/90	U	900615 - 2
SMPT-VAC03X	480 VAC MCC E424-W-A FAULT	2	10/24/90	U	900759 - 2
SMPT-VAC03Y	480 VAC MCC E424-R-D FAULT	2	10/25/90	U	900733 - 2
SMPT-VAC04A	120 VAC INSTRUMENT PANEL FAULT	1	09/13/90	U	900666 - 2
SMPT-VAC04B	120 VAC INSTRUMENT PANEL FAULT	1	10/28/90	U	900742 - 1 900750 - 2 900748 - 2
SMPT-VAC04C	120 VAC INSTRUMENT PANEL FAULT	1	10/29/90	U	900571 - 1 900754 - 2 900753 - 2 900751 - 1 900749 - 1 900752 - 2 900754 - 2
SMPT-VAC04D	120 VAC INSTRUMENT PANEL FAULT	1	10/29/90	U	900755 - 2 900756 - 2
SMPT-VAC04E	120 VAC INSTRUMENT PANEL FAULT	1	10/29/90	U	900757 - 2
SMPT-VAC04F	120 VAC INSTRUMENT PANEL FAULT	1	10/29/90	U	900758 - 2 900727 - 2 900728 - 3
SMPTT-MSS02	MAX UNISOLABLE STEAM LINE RUPTURE		01/06/91	U	910012 - 2 910013 - 2 910015 - 2
SMPTT-RRS0B	RECIRC MG DRIVE MOTOR BREAKER TRIP		01/05/91	U	910023 - 2 900656 - 3

PERFORMANCE TEST	PERFORMANCE TEST TITLE	TEST REVISION NUMBER	DATE OF LAST TEST	RESULTS OF TEST	WORK ORDER NUMBER/PRIORITY
SSPT-AD-23C.3-2	HPCI MANUAL SLOW START OPERATION	1	09/06/90	U	900376 - 3
SSPT-AD-48.1	EMERGENCY COOLING WATER SYSTEM MAKEUP TO TOWER USING THE EMERG SERVICE WTR S/C	0	09/05/90	U	900131 - 2 900494 - 2
SSPT-AD-48.2	USING THE EMERGENCY WATER PUMP AS AN EMERGENCY SERVICE WATER PUMP	0	09/06/90	U	900494 - 2
SSPT-AD-5A.2-2	CONDENSATE DEMINERALIZER SYSTEM BYPASS	0	09/06/90	U	900461 - 2
SSPT-GP-13	RESOLUTION OF REACTOR THERMAL LIMIT VIOLATIONS	4	09/06/90	U	900460 - 3
SSPT-GP-2	NORMAL PLANT START-UP	58	07/11/90	U	900351 - 2
SSPT-GP-3	NORMAL PLANT SHUTDOWN	46	08/02/90	U	900388 - 3
SSPT-HEAT BAL	SIMULATOR HEAT BALANCE TEST AT APPROX. 100%, 50%, AND 25% POWER		01/05/91	U	910031 - 2 910032 - 2 910033 - 2
SSPT-ON-100	FAILURE OF JET PUMP	0	09/10/90	U	900559 - 2
SSPT-ON-112	LOSS OF UNINTERRUPTABLE	8	09/13/90	U	900666 - 2
SSPT-ON-119	LOSS OF INSTRUMENT AIR - PROCEDURE	3	09/18/90	U	900046 - 2
SSPT-ON-120	HIGH DRYWELL TEMPERATURE	2	09/10/90	U	900546 - 2
SSPT-OT-101	HIGH DRYWELL PRESSURE - PROCEDURE	3	09/10/90	U	900493 - 2
SSPT-RT-19.12	TIMER MALFUNCTION SELECT BLOCK TEST	0	07/20/90	U	900321 - 2
SSPT-RT-5.1.1-2	EXTRACTION STEAM STOP VALVE TESTING U/2	0	07/24/90	U	900261 - 2
SSPT-RT-5.13	TURBINE SHAFT VOLTAGE TEST	5	07/24/90	U	900275 - 2
SSPT-RT-5.23	CONTROL VALVE TIGHTNESS	3	08/05/90	U	900378 - 3
SSPT-RT-5.29	UNDERSPEED OVERSPEED TEST	2	07/24/90	U	900258 - 2
SSPT-RT-5.4	MECHANICAL TRIP VALVE	4	07/24/90	U	900274 - 2

PERFORMANCE TEST	PERFORMANCE TEST TITLE	TEST REVISION NUMBER	DATE OF LAST TEST	RESULTS OF TEST	WORK ORDER NUMBER/PRIORITY
SSPT-RT-5.46	TURBINE MONITORING WITH WATERBOXES OUT OF SERVICE	1	07/26/90	U	900269 - 2
SSPT-RT-6.7	REACTOR FEED PUMP TURBINE TESTS	0	08/03/90	U	896. - 2 900379 - 3 900282 - 1
SSPT-RT-8.2	HEAT CYCLE MONITORING	6	07/27/90	U	900362 - 2
SSPT-S.3.2.E.2	REJECTION OF TORUS INVENTORY TO THE HOTWELL	2	11/02/90	U	900672 - 1
SSPT-S.3.2.L	ALT. SHUTDOWN COOLING USING COND. FEED WITH VESSEL DRAIN TO TORUS VIA RHK	0	11/07/90	U	900706 - 2
SSPT-SE-1 PROCEDURE	PLANT SHUTDOWN FROM THE REMOTE SHUTDOWN PANEL - PROCEDURE	12	08/24/90	U	900327 - 1
SSPT-SE-10 PROCEDURE	PLANT SHUTDOWN FROM THE ALTERNATIVE SHUTDOWN PANELS - PROCEDURE	4	08/28/90	U	900491 - 2 900505 - 2 900504 - 2 900287 - 1
SSPT-SE-10.1	ALTERNATIVE SHUTDOWN PANEL RESTORATION	3	08/27/90	U	900287 - 1 900428 - 2
SSPT-SE-11 PROCEDURE	STATION BLOCKOUT	13	08/29/90	U	900483 - 2 900497 - 2 900496 - 2 900474 - 2
SSPT-SE-13	LOSS OF A 125 OR 250 VDC SAFETY RELATED BUS	1	10/18/90	U	900596 - 2 900595 - 2 900599 - 2 900734 - 2 900600 - 2 900598 - 2 900745 - 2 900602 - 2 900746 - 2
SSPT-SO 12.6.A-2	REACTOR WATER CLEANUP SYSTEM NON REGENERATIVE HEAT EXCHANGER SWAPPING		08/16/90	U	900406 - 1
SSPT-SO 13.7.A-2	RECOVERY FROM RCIC SYSTEM ISOLATION OR TURBINE TRIP	3	08/29/90	U	900114 - 2
SSPT-SO 14.1.A-2	CORE SPRAY SYSTEM ALIGNMENT FOR AUTOMATIC OR MANUAL OPERATION	0	07/16/90	U	900486 - 2

PERFORMANCE TEST	PERFORMANCE TEST TITLE	TEST REVISION NUMBER	DATE OF LAST TEST	RESULTS OF TEST	WORK ORDER NUMBER/PRIORITY
SSPT-SO 1B.1.A-2	MAIN TURBINE STARTUP & NORMAL OPERATIONS	6	07/25/90	U	900256 - 2 900262 - 2 900264 - 2 900258 - 2
SSPT-SO 1B.7.A-2	MAIN TURBINE TURNING GEAR OPERATIONS	2	07/20/90	U	900352 - 2
SSPT-SO 1H.1.A-2	SEAL STEAM STARTUP & NORMAL OPERATIONS	0	07/20/90	U	900353 - 2
SSPT-SO 1H.6.A-2	SEAL STEAM TRANSFER FROM MAIN STEAM TO AUXILIARY STEAM	0	08/01/90	U	900353 - 2
SSPT-SO 1H.8.A-2	SEAL STEAM SYSTEM ROUTINE INSPECTION	0	07/24/90	U	900353 - 2
SSPT-SO 2.B.A-2	RECIRCULATION SYSTEM ROUTINE INSPECTION	1	06/21/90	U	900221 - 2
SSPT-SO 2BA.2.A-2	CIRCULATING WATER SYSTEM SHUTDOWN	1	08/01/90	U	900391 - 3 900382 - 3
SSPT-SO 2BA.7.B-2	REMOVAL OF A WATER BOX FROM SERVICE	1	07/27/90	U	900592 - 2
SSPT-SO 2BB.2.A	COOLING TOWER SHUTDOWN	1	08/30/90	U	900475 - 3
SSPT-SO 2BD.1.A	LOW PRESSURE LUBE WATER STARTUP FOR NORMAL OPERATIONS	0	07/26/90	U	900322 - 2
SSPT-SO 2BD.2.A	LOW PRESSURE LUBE WATER SYSTEM SHUTDOWN	0	07/26/90	U	900322 - 2
SSPT-SO 2A.1.A-2	STARTING THE FIRST RECIRCULATION PUMP	3	07/18/90	U	900221 - 2
SSPT-SO 2A.1.B-2	STARTING THE SECOND RECIRCULATION PUMP	4	06/28/90	U	900221 - 2 900247 - 2
SSPT-SO 2C.1.A-2	RECIRCULATION MG SET LUBE OIL SYSTEM STARTUP	0	07/18/90	U	900299 - 2
SSPT-SO 3.1.A-2	U/2 CONTROL ROD DRIVE HYDRAULIC SYSTEM STARTUP FOLLOWING AN EXTND OUTAGE OR MNTN	0	07/13/90	U	890324 - 2 890306 - 2 890320 - 2
SSPT-SO 3.1.B-2	U/2 CONTROL ROD DRIVE HYDRAULIC SYSTEM STARTUP WITH THE SYSTEM FILLED & VENTED	1	07/13/90	U	890324 - 2 890306 - 2 890320 - 2

PERFORMANCE TEST	PERFORMANCE TEST TITLE	TEST REVISION NUMBER	DATE OF LAST TEST	RESULTS OF TEST	WORK ORDER NUMBER/ PRIORITY
SSPT-SO 3.8.A-2	U/2 CONTROL ROD DRIVE HYDRAULIC SYSTEM ROUTINE INSPECTION	1	07/13/90	U	890324 - 2
SSPT-SO 30.1.A-2	UNIT 2 SERVICE WATER SYSTEM STARTUP & NORMAL OPERATIONS	1	07/12/90	U	900253 - 3
SSPT-SO 32.1.A-2	HIGH PRESSURE SERVICE WATER SYSTEM STARTUP & NORMAL OPERATIONS	2	07/16/90	U	900305 - 2
SSPT-SO 36A.1.A-2	SERVICE AIR SYSTEM STARTUP & NORMAL OPERATIONS	0	08/16/90	U	900405 - 2
SSPT-SO 35A.7.A-2	LINING UP THE COMPRESSED AIR SYSTEM TO REMOVE THE "C" AIR COMPRESSOR FROM SERVICE	0	08/15/90	U	900374 - 3
SSPT-SO 36B.2.A-2	"A" INSTRUMENT AIR SYSTEM SHUTDOWN	0	08/16/90	U	900404 - 3
SSPT-SO 36B.2.B-2	"B" INSTRUMENT AIR SYSTEM SHUTDOWN	0	08/16/90	U	900405 - 2
SSPT-SO 36B.2.C-2	AIR COMPRESSOR "A", "B" SHUTDOWN	0	08/16/90	U	900404 - 2
SSPT-SO 36B.7.A-2	COMPRESSED AIR SYSTEM OPERATION WITH "A" COMPRESSOR OUT OF SERVICE	0	08/16/90	U	900374 - 3
SSPT-SO 40C.7.A-2	PRIMARY CONTAINMENT VENTILATION VIA EQUIPMENT CELL EXHAUST	0	08/30/90	U	900477 - 2
SSPT-SO 40D.1.A	STARTUP OF CONTROL ROOM VENTILATION SYSTEM	1	07/12/90	U	900170 - 2
SSPT-SO 40D.7.A	RESTORATION OF CONTROL ROOM VENTILATION FOLLOWING A HIGH RADIATION TRIP	2	08/30/90	U	900170 - 2
SSPT-SO 44A.2.A-2	DRYWELL CHILLER WATER SYSTEM SHUTDOWN	1	08/30/90	U	900485 - 3
SSPT-SO 48.7.A	EMERGENCY COOLING WATER SYSTEM MAKEUP TO TOWER USING A HIGH PRSR SERVICE WTR PMP	0	08/23/90	U	900436 - 3
SSPT-SO 48.7.B	DECREASING THE WATER LEVEL IN EMERGENCY COOLING TOWER	0	08/23/90	U	900436 - 3 900431 - 3

PERFORMANCE TEST	PERFORMANCE TEST TITLE	TEST REVISION NUMBER	DATE OF LAST TEST	RESULTS OF TEST	WORK ORDER NUMBER/PRIORITY
RESERVOIR					
SSPT-SO 48.B.B	EMERGENCY COOLING WATER SYSTEM ROUTINE INSPECTION WHILE SYSTEM IS IN OPERATION	3	08/24/90	U	900431 - 3 900131 - 2
SSPT-SO 5.2.B-2	REMOVING A FEEDWATER HEATER STRING FROM SERVICE	1	08/31/90	U	900439 - 2
SSPT-SO 5.7.C-2	HOTWELL PUMP DOWN USING A CONDENSATE PUMP	0	09/05/90	U	900490 - 1
SSPT-SO 50G.1.A-2	OPERATION OF ALTERREX EXCITER AIR COOLERS	3	07/26/90	U	900355 - 2
SSPT-SO 53.6.C	TRANSFER FEED TO 3SU SWGR BETWEEN 343 SU XFMR AND 3 SU REGULATING XFMR	1	08/21/90	U	900470 - 3
SSPT-SO 54.7.A	4KV FAST TRANSFER LOAD SHEDDING AND SEQUENTIAL LOADING ON BUS UNDERVOLTAGE	1	09/23/90	U	900411 - 2 900412 - 2 900413 - 2 900435 - 3
SSPT-RO 60A.7.A-2	LPRM BYPASSING	1	08/31/90	U	890318 - 1
SSPT-SO 60E.7.A-2	TRAVERSING IN CORE PROBE SYSTEM ISOLATION IN EVENT OF CONTAINMENT ISOLATION	0	08/31/90	U	900442 - 2
SSPT-SO 60F.1.A-2	REACTOR PROTECTION SYSTEM MG SET & PWR DISTRIBUTION SYS STRTUP FROM DEAD BUS CND	3	07/18/90	U	900338 - 2
SSPT-SO 60F.6.A-2	REACTOR PROTECTION SYSTEM POWER SUPPLY OPERATIONS	3	09/23/90	U	900338 - 2
SSPT-SO 60F.7.B-2	RESTORATION OF REACTOR PROTECTION SYSTEM ALTERNATE FEED FOLLOWING A TRIP	4	09/23/90	U	900550 - 2
SSPT-SO 6C.1.A-2	"C" REACTOR FEEDWATER PUMP STARTUP WITH VESSEL LEVEL CONTROL ESTAB THRGH AO-8091	4	07/25/90	U	900333 - 2 900334 - 3
SSPT-SO 6C.1.B-2	REACTOR FEEDWATER PUMP STARTUP WITH VESSEL CONTROL ESTABLISHED THRGH CV-2558	4	08/14/90	U	900443 - 3
SSPT-SO 6D.2.C-2	REACTOR FEED PUMP S/D AS THE LAST RFP IN SERV. WITH LVL CONTR. VIA CV-2558	0	08/31/90	U	900443 - 3

PERFORMANCE TEST	PERFORMANCE TEST TITLE	TEST REVISION NUMBER	DATE OF LAST TEST	RESULTS OF TEST	WORK ORDER NUMBER/PRIORITY
SSPT-SO 6D.7.C-2	REACTOR FEEDWATER PUMP CONTROL SIGNAL FAILURE LOCK-UP RESET	1	08/31/90	U	900444 - 2
SSPT-SO 7B.3.A-2	CONTAINMENT ATMOSPHERE PRESSURE CONTROL & NITROGEN MAKEUP	2	07/25/90	U	900281 - 2
SSPT-SO 7B.4.A-2	CONTAINMENT ATMOSPHERE DE-INERTING & PURGING VIA SBOG SYSTEM	3	07/30/90	U	900366 - 2
SSPT-SO 7C.1.B-2	CAD SYSTEM NITROGEN ADDITION TO CONTAINMENT DURING NORMAL OPERATIONS	3	09/05/90	U	900493 - 2
SSPT-SO 7D.1.A-2	DRYWELL & TORUS OXYGEN SAMPLING SYSTEM STARTUP & OPERATION	0	07/17/90	U	900770 - 3
SSPT-SO 7D.7.A-2	DRYWELL & TORUS OXYGEN SAMPLING SYSTEM RESTORATION FOLLOWING PRIMARY CONTMNT ISO	0	09/05/90	U	900427 - 2
SSPT-SO 7E.1.B-2	CAD HYDROGEN & OXYGEN SAMPLING SYSTEM REMOTE OPERATION	0	09/06/90	U	900462 - 1
SSPT-SO 7E.2.A-2	CAD HYDROGEN & OXYGEN SAMPLING SYSTEM SHUTDOWN	0	10/09/90	U	900462 - 1
SSPT-SO 8.1.A-2	OFF-GAS SYSTEM STARTUP FOR NORMAL OPERATIONS	2	07/23/90	U	890295 - 2 900252 - 2 900268 - 2 900269 - 2 900270 - 2 900267 - 2 900271 - 2 900272 - 2
SSPT-SO 8.8.A-2	OFF-GAS SYSTEM ROUTINE INSPECTION	2	07/23/90	U	900252 - 2 900270 - 2 890295 - 2 900267 - 2
SSPT-SO 8B.6.A-2	PLACING STANDBY RECOMB. JET COMP. IN SERV. & PLACING THE IN SERV. COMP. IN STBY.	1	09/05/90	U	890295 - 2 900267 - 2 900489 - 2
SSPT-SO 8C.1.A-2	OFF GAS SYSTEM HYDROGEN ANALYZER STARTUP & NORMAL OPERATION	1	09/05/90	U	900271 - 2

PERFORMANCE TEST	PERFORMANCE TEST TITLE	TEST REVISION NUMBER	DATE OF LAST TEST	RESULTS OF TEST	WORK ORDER NUMBER/PRIORITY
SSPT-SO BC.1.B-2	OFF GAS SYSTEM HYDROGEN ANALYZER STARTUP & NORMAL OPERATION (ALTERNATE)	1	09/05/90	U	900271 - 2
SSPT-SO BG.6.A-2	PLACING THE STNBY OFF-GAS GLYCOL PMP IN SRVCE & PLACING THE IN-SERVICE PMP IN ST	0	09/05/90	U	900265 - 2
SSPT-SO 94F.1.A-2	UNIT 2 SUPPRESSION POOL TEMP. MONITORING SYS OPERATION	0	09/04/90	U	900491 - 3
SSPT-SO 9A.7.A	STANDBY GAS TREATMENT SYSTEM MANUAL STARTUP ON REACTOR BUILDING VENTILATION	0	08/27/90	U	900414 - 3
SSPT-SO 9A.7.E	STANDBY GAS TREATMENT SYSTEM MANUAL STARTUP ON REACTOR BLDG & REFUEL FLOOR VENT	0	08/27/90	U	900414 - 3
SSPT-SO 9A.7.G	STANDBY GAS TREATMENT SYSTEM MANUAL STARTUP ON EQUIPMENT	0	08/27/90	U	900414 - 3
SSPT-ST-10.1-2	UNIT 2 HPCI FLOW RATE AT 150 PSIG STEAM PRESSURE	2	07/23/90	U	900325 - 2 900326 - 2
SSPT-ST-10.17	HPCI SYSTEM VALVE & COMPONENT ALTERNATIVE CONTROL TESTING	0	08/20/90	U	900407 - 3 900415 - 2 900416 - 2
SSPT-ST-10.4	RELIEF VALVE MANUAL ACUTATION	19	07/24/90	U	890342 - 2
SSPT-ST-11.5	PCIS SIMULATED AUTOMATIC ACTUATION TEST	10	08/15/90	U	900311 - 2
SSPT-ST-12.1A	ONE ROD PERMISSIVE REFUELING INTERLOCK TEST	6	08/13/90	U	900375 - 2
SSPT-ST-13.12-2	EMERGENCY SHUTDOWN CONTROL PANEL	5	08/22/90	U	900422 - 2
SSPT-ST-13.47-2	1ST EXERCISE OF SECONDARY CONTAINMENT DAMPERS	1	07/16/90	U	900307 - 3
SSPT-ST-13.47-2.1	COLD SHUTDOWN OF 1ST EXERCISE OF SECONDARY CONTAINMENT DAMPERS	1	08/22/90	U	900419 - 3
SSPT-ST-13.59	TIP MACHINE FUNCTIONAL	1	08/14/90	U	900395 - 3
SSPT-ST-3.10A	CORE STABILITY MONITORING/BASELINE DATA ACQUISITION	2	08/02/90	U	900380 - 3

PERFORMANCE TEST	PERFORMANCE TEST TITLE	TEST REVISION NUMBER	DATE OF LAST TEST	RESULTS OF TEST	WORK ORDER NUMBER/PRIORITY
SSPT-ST-4.1	REFUEL FLOOR EXHAUST RADIATION MONITOR FUNCTIONAL TEST	9	08/21/90	U	900402 - 2
SSPT-ST-4.2	REACTOR BUILDING EXHAUST RADIATION MONITOR FUNCTIONAL TEST	8	08/21/90	U	900402 - 2
SSPT-ST-4.4	MAIN STACK GAS MONITOR FUNCTIONAL TEST	5	08/21/90	U	900402 - 2
SSPT-ST-4.7.1-2	UNIT 2 VENT STACK EXHAUST RAD MONITOR CHECK SOURCE RESPONSE VERIFICATION	0	08/20/90	U	900417 - 3
SSPT-ST-6.10-2	HPSW PUMP AND VALVE OPERABILITY AND FLOW RATE TEST - UNIT 2	19	07/18/90	U	900290
SSPT-ST-6.10F-2	HPSW PUMP AND VALVE OPERABILITY AND FLOW RATE TEST	1	07/19/90	U	900290
SSPT-ST-6.11-2	RCIC PUMP, VALVE, FLOW & COOLER	5	07/27/90	U	900348 - 2
SSPT-ST-6.11F-2	RCIC PUMP, VALVE, FLOW & COOLER FUNCTIONAL FLOW TEST	2	07/27/90	U	900348 - 2
SSPT-ST-6.18-2	1ST VALVE EXERCISE	3	07/16/90	U	900311 - 2 900309 - 3 900308 - 3
SSPT-ST-6.18.1-2	1ST NORMALLY CLOSED VALVES OPERATING UNIT 2	2	07/20/90	U	900278 - 3
SSPT-ST-6.2-2	PCIS NORMALLY OPEN VALVES	4	08/21/90	U	900400 - 2
SSPT-ST-6.24-2	DAILY ECCS PUMP MOTOR OPERABILITY	5	08/21/90	U	900396 - 3
SSPT-ST-6.5-8	HPCI TORUS SUCTION CHECK VALVE OPERABILITY (1ST)	11	08/13/90	U	900376 - 3
SSPT-ST-6.6-2	UNIT 2 CORE SPRAY "A" LOOP PUMP, VALVE, COOLER FUNCTIONAL	1	07/18/90	U	900295 - 2
SSPT-ST-6.6F-2	CORE SPRAY A LOOP PUMP, VALVE, FLOW, AND COOLER TEST - UNIT 2	4	07/18/90	U	890411 - 2 900295 - 2
SSPT-ST-6.7-2	UNIT 2 CORE SPRAY "B" LOOP PUMP, VALVE, COOLER FUNCTIONAL	1	07/18/90	U	900295 - 2

PERFORMANCE TEST	PERFORMANCE TEST TITLE	TEST REVISION NUMBER	DATE OF LAST TEST	RESULTS OF TEST	WORK ORDER NUMBER/PRIORITY
SSPT-ST-6.7F-2	CORE SPRAY B LOOP PUMP, VALVE, FLOW, AND COOLER TEST - UNIT 2	3	07/18/90	U	900295 - 2 890411 - 2
SSPT-ST-6.8-2	UNIT 2 'A' RHR LOOP, PUMP, VALVE, FLOW AND UNIT COOLER FUNCTIONAL	4	08/07/90	U	890321 - 2 900309 - 3
SSPT-ST-6.8.2-2	RHR/HPSW SYSTEM VALVES ALTERNATIVE CONTROL TESTING	0	08/20/90	U	900408 - 2 900409 - 2
SSPT-ST-6.8.3	RHR SYSTEM FUNCTIONAL FROM THE ALTERNATIVE CONTROL PANELS	0	08/20/90	U	900410 - 2
SSPT-ST-6.8F-2	UNIT 2 'A' RHR LOOP, PUMP, VALVE, FLOW AND UNIT COOLER FUNCTIONAL FLOW TEST	6	07/18/90	U	900296 - 3 890323 - 2 900309 - 3 900297 - 3 890321 - 2
SSPT-ST-6.9-2	UNIT 2 'B' RHR LOOP, PUMP, VALVE, FLOW AND UNIT COOLER FUNCTIONAL	3	07/18/90	U	900309 - 3 890321 - 2
SSPT-ST-6.9F-2	UNIT 2 'B' RHR LOOP, PUMP, VALVE, FLOW AND UNIT COOLER FUNCTIONAL FLOW TEST	6	07/18/90	U	900297 - 3 890321 - 2
SSPT-ST-7.6.12.1	A & B CONTROL RM INTERNAL VENT RADIATION MONITOR SOURCE CHECK	1	08/21/90	U	900398 - 3
SSPT-ST-8.1	DIESEL GENERATOR FULL LOAD TEST	38	07/19/90	U	900286 - 3
SSPT-ST-8.1.12.B	E2 DIESEL ALTERNATIVE SHUTDOWN CONTROL FUNCTIONAL	4	07/19/90	U	900287 - 1 900288 - 2
SSPT-ST-8.1.12.D	E4 DIESEL AND A ESW PUMP ALTERNATIVE SHUTDOWN CONTROL FUNCTIONAL	4	07/19/90	U	900288 - 2
SSPT-ST-9.1-2X	THE SURVEILLANCE LOG (HOT SHUTDOWN, STARTUP/HOT STANDBY OR RUN MODE)	20	08/02/90	U	900774 - 2
SSPT-ST-9.21-2	JET PUMP OPERABILITY	5	08/03/90	U	900318 - 2 900386 - 2
SSPT-T-101	RPV CONTROL RC/Q, RC/L, RC/P	D	11/02/90	U	900699 - 2
SSPT-T-102	PRIMARY CONTAINMENT CONTROL	D	11/06/90	U	900718 - 2 900717 - 2

PERFORMANCE TEST	PERFORMANCE TEST TITLE	TEST REVISION NUMBER	DATE OF LAST TEST	RESULTS OF TEST	WORK ORDER NUMBER/PRIORITY
					900721 - 2
SSPT-T-111	LEVEL RESTORATION	D	11/07/90	U	900705 - 2
SSPT-T-112	EMERGENCY BLOWDOWN	D	11/07/90	U	900705 - 2
SSPT-T-117	LEVEL/POWER CONTROL	D	11/02/90	U	900688 - 1
SSPT-T-118	PRIMARY CONTAINMENT FLOODING	D	11/07/90	U	900704 - 2
SSPT-T-200A	CONTAINMENT VENTING VIA THE 2" TORUS VENT TO SBTG PROCEDURE	D	11/06/90	U	900046 - 2 900493 - 2
SSPT-T-200B	CONTAINMENT VENTING VIA THE 2" DRYWELL VENT TO SBTG PROCEDURE	D	11/06/90	U	900493 - 2 900046 - 2
SSPT-T-200D	CONTAINMENT VENTING VIA THE 18" TORUS VENT TO SBTG	D	11/06/90	U	900712 - 2 900701 - 2 900709 - 2
SSPT-T-200E	CONTAINMENT VENTING VIA THE 18" TORUS PRUGE SUPPLY LINE	D	11/06/90	U	900713 - 1 900709 - 2
SSPT-T-201A	PRIMARY CONTAINMENT AIR PURGE, HYDROGEN LESS THAN 6% - UNIT 2	D	11/06/90	U	900711 - 2
SSPT-T-211	CRD SYSTEM NON-ENRICHED BORIC ACID-BORAX INJECTION	D	10/31/90	U	900576 - 2
SSPT-T-212	RWCU SYSTEM SBLC INJECTION	D	10/31/90	U	900678 - 2 900680 - 2
SSPT-T-220	CONTROL ROD SELECT BLOCK BYPASS	D	10/31/90	U	900690 - 2 890097 - 2
SSPT-T-227	DEFEATING RWCU ISOLATION INTERLOCKS	D	10/31/90	U	900678 - 2
SSPT-T-233	CST MAKEUP TO THE TORUS VIA HPCI MIN FLOW LINE	D	11/02/90	U	900673 - 2
SSPT-T-241	ALTERNATE INJECTION USING THE CONDENSATE TRANSFER SYSTEM	D	11/01/90	U	900702 - 2
SSPT-T-246	MAXIMIZING CRD FLOW TO THE REACTOR VESSEL	D	10/31/90	U	890171 - 1
STPT-IPM03	ANTICIPATED TRANSIENT WITHOUT SCRAM		01/06/91	U	910023 - 2

PERFORMANCE TEST	PERFORMANCE TEST TITLE	TEST REVISION NUMBER	DATE OF LAST TEST	RESULTS OF TEST	WORK ORDER NUMBER/ PRIORITY
STPT-MSS06	SIMULTANEOUS CLOSURE OF ALL MSIV's	2	01/06/91	U	910014 - 2
DTPT-MTA04	TURBINE TRIP WITHIN BYPASS VALVE CAPACITY		01/01/91	U	910021 - 2
STPT-RRS08	SIMULTANEOUS TRIP OF ALL RECIRC PUMPS		01/06/91	U	910023 - 2 900656 - 3
STPT-RRS20	MAX RECIRC SUCTION BREAK WITH LOP		01/06/91	U	910016 - 2
STPT-SP-1230	RECIRCULATION RUNBACK	1	01/05/91	U	910017 - 2
STPT-SP-1231	RECIRCULATION PUMP TRIP	0	01/05/91	U	910018 - 2 910022 - 2 910023 - 2
SMPT-HWC01	HYDROGEN LEAK IN HYDROGEN WATER CHEMISTRY SYSTEM		/ /	X	SYSTEM NOT SIMULATED
SMPT-HWC02	H2 WATER CHEMISTRY SYSTEM OXYGEN PRESSURE LOW		/ /	X	SYSTEM NOT SIMULATED
SMPT-RSC01	RSCS TOTAL FAILURE		/ /	X	RSCS REMOVED IN LOAD 91-1, MALFUNCTION WILL BE REMOVED IN LOAD 91-2.

PEACH BOTTOM ATOMIC POWER STATION
 UNIT 2 SIMULATOR
 PERFORMANCE TEST SCHEDULE
 ANNUAL PERFORMANCE TESTS

The Simulator Performance Tests listed below are to be performed each calendar year.

01/29/91

Page No. 1

PERFORMANCE TEST	PERFORMANCE TEST TITLE
SCPT- RT001	SIMULATOR COMPUTER REAL TIME TEST
SMPTT- MSS02	MAX UNISOLABLE STEAM LINE RUPTURE
SMPTT- RRS08	RECIRC MG DRIVE MOTOR BREAKER TRIP
SSPT- HEAT BAL	SIMULATOR HEAT BALANCE TEST AT APPROX. 100%, 50%, AND 25% POWER
SSPT- STABILITY/MASS BAL	SIMULATOR STABILITY AND MASS BALANCE TEST
STPT- IPM03	ANTICIPATED TRANSIENT WITHOUT SCRAM
STPT- MFS02	SIMULTANEOUS TRIP OF ALL FEED PUMPS
STPT- MSS06	SIMULTANEOUS CLOSURE OF ALL MSIV's
STPT- MSS06T	MSIV CLOSURE WITH FAILED OPEN SRV AND NO HP ECCS
STPT- MTA04	TURBINE TRIP WITHIN BYPASS VALVE CAPACITY
STPT- PWRRAMP	MAX RATE POWER RAMP FROM 100% TO 75% TO 100%
STPT- RRS08	SIMUTANEOUS TRIP OF ALL RECIRC PUMPS
STPT- RRS20	MAX RECIRC SUCTION BREAK WITH LOP
STPT- SCRAM	MANUAL SCRAM
STPT- SP-1230	RECIRCULATION RUNBACK
STPT- SP-1231	RECIRCULATION PUMP TRIP
STPT- SP-1232	REACTOR FEEDWATER PUMP TRIP
STPT- SP-1233	TURBINE TRIP WITHIN BYPASS VALVE CAPACITY

PEACH BOTTOM ATOMIC POWER STATION
UNIT 2 SIMULATOR
PERFORMANCE TEST SCHEDULE

These Simulator Performance Tests are schedule to be conducted during the year indicated in addition to the Annual Performance Tests.

01/29/91

Page No. 1

The Simulator Performance Tests listed below are to be performed during calendar year: 1991

PERFORMANCE TEST	PERFORMANCE TEST TITLE
SMPT - ADS01	ADS CHANNEL FAILS TO INITIATE
SMPT - APR02	APRM CHANNEL FAILS DOWNSCALE
SMPT - APR05	APRM FAILS TO TRIP DOWNSCALE
SMPT - ARI141	ARI ISOLATION/EXHAUST VALVE 141 FAILURE
SMPT - ARM02	ARM CHANNEL FAILS DOWNSCALE
SMPT - CAS01	LOSS OF INSTRUMENT AIR
SMPT - CRH03	CRD HYDRAULIC PUMP TRIP
SMPT - CRH06	CRD STABILIZING VALVE FAILS CLOSED
SMPT - CRH08	SCRAM DISCHARGE VOLUME LEVEL HIGH
SMPT - CRH12	SCRAM DISCHARGE VOLUME DRAIN VALVE FAILS CLOSED
SMPT - CRM03	CONTROL ROD UNCOUPLED
SMPT - CSS02	CORE SPRAY INJECTION VALVE FAILS TO AUTO OPEN
SMPT - CWS06	TRAVELING SCREEN BLOCKAGE
SMPT - DCD01C	250 VDC DIST. PANEL 20D07 FAULT
SMPT - DCD02B	125 VDC DISTRIBUTION PANEL 2PPA FAULT
SMPT - DCD03B	24 VDC DISTRIBUTION PANEL BUS 2F FAULT
SMPT - DCW04	DWCW LEAKAGE INSIDE THE DRYWELL
SMPT - ECW01	ECW PUMP TRIP
SMPT - EHH03	BYPASS VALVE STICKS OPEN
SMPT - EHL03	PRESSURE REGULATOR OSCILLATION

The Simulator Performance Tests listed below are to be performed during calendar year: 1991

PERFORMANCE TEST	PERFORMANCE TEST TITLE
SMPT - ESD02	FW HEATER LEVEL CONTROL VALVE FAILS OPEN
SMPT - FCR01	FUEL CLADDING FAILURE
SMPT - FCR02	INCREASED CONTROL ROD WORTH
SMPT - FWC03	RFP MASTER CONTROLLER OSCILLATION
SMPT - FWC07	FWC FUNCTION GENERATOR FAILS LOW
SMPT - HPC01	FAILURE OF HPCI TO AUTO START
SMPT - HPC05	HPCI FLOW CONTROLLER FAILS HIGH
SMPT - HPC09	HPCI LUBE OIL SYSTEM FAILURE
SMPT - IMP03	ANTICIPATED TRANSIENT WITHOUT SCRAM (ATWS)
SMPT - IMP04	FIRE IN THE REMOTE SHUTDOWN PANEL
SMPT - IRM04	IRM CHANNEL DETECTOR SRUCK
SMPT - LPR02	LPRM FAILS DOWNSCALE
SMPT - MAP05C	STARTUP SOURCES BUS FAULT
SMPT - MAP07C	4.16 KV EMERGENCY BUS E32 (20A17) FAULT
SMPT - MAP07G	4.16 KV EMERGENCY BUS E-33 FAULT
SMPT - MCS02	HOTWELL LEVEL TRANSMITTER FAILS HIGH
SMPT - MCS06	CONDENSATE DEMIN RESIN DEPLETION
SMPT - MFS02	REACTOR FEEDWATER PUMP HIGH VIBRATION
SMPT - MFS06	FEEDWATER HEATER TUBE LEAK
SMPT - M 32	VOLTAGE REGULATOR FAILS HIGH
SMPT - MGA06	GENERATOR FIELD BREAKER FAILS TO CLOSE
SMPT - MLO02	MAIN SHAFT OIL PUMP FAILURE

The Simulator Performance Tests listed below are to be performed during calendar year: 1991

PERFORMANCE TEST	PERFORMANCE TEST TITLE
SMPT - MSS04	MAIN STEAM HEADER PRESSURE TRANSMITTER PT-2184/PT-2185 FAILURE
SMPT - MSS10	STEAM LEAKAGE IN THE STEAM TUNNEL
SMPT - MTA01	MAIN TURBINE BEARING HIGH TEMPERATURE
SMPT - MTA02	MAIN TURBINE BEARING HIGH VIBRATION
SMPT - OGR02	WATER IN THE OFF GAS PIPING
SMPT - PCI01	GROUP ISOLATION VALVE ISOLATION FAILURE
SMPT - PCS03	TORUS-DRYWELL VACUUM BREAKER FAILS OPEN
SMPT - PPC01	PLANT PROCESS COMPUTER FAILURE
SMPT - RBM01	REM CHANNEL FAIL UPSCALE
SMPT - RBW01	RBCCW PUMP TRIP
SMPT - RBW05	RBCCW/TBCCW AUTO SWAPOVER FAILURE
SMPT - RCI04	RCIC FLOW CONTROLLER AUTO CIRCUIT FAILS LOW
SMPT - RFC02	RECIRC MG FLOW CONTROLLER FAILS DOWNSCALE
SMPT - RHR01	RHR PUMP TRIP
SMPT - RPS01	CONTROL ROD SCRAMS
SMPT - RPS02	RPS MG OUTPUT BREAKER TRIP
SMPT - RPS06	CONTROL ROD FAILS TO SCRAM
SMPT - RRS04	RECIRC FLOW UNIT FAILS INOP
SMPT - RRS09	RECIRC MG FIELD BREAKER TRIP
SMPT - RRS14	RECIRC PUMP #2 SEAL FAILURE
SMPT - RRS18	RECIRC LOOP FLOW TRANSMITTER FAILURE
SMPT - RVI02	REACTOR LEVEL TRANSMITTER LT-6-52 FAILURE

The Simulator Performance Tests listed below are to be performed during calendar year: 1991

PERFORMANCE TEST	PERFORMANCE TEST TITLE
SMPT - RVI06	RVP PRESSURE TRANSMITTER PT-404 FAILURE
SMPT - RVI10	REFERENCE LINE BREAK-REFUEL RANGE LEVEL
SMPT - RWC02	RWCU NONREGENERATIVE HEAT EXCHANGER LEAK
SMPT - RWC03	RWCU FILTER DEMIN CLOGGING
SMPT - SGT01	STANDBY GAS FAILS TO AUTO INITIATE
SMPT - SRM03	SRM CHANNEL FAILS INOP
SMPT - SRM07	SRM CHANNEL FAILS TO TRIP DOWNSCALE
SMPT - SWS01	SERVICE WATER PUMP TRIP
SMPT - TBW03	TBCCW HEAT EXCHANGER SERVICE WATER BLOCKAGE
SMPT - VAC01A	480 VAC BUS AS4 FAULT
SMPT - VAC01E	480 VAC BUS A24 FAULT
SMPT - VAC01I	480 VAC BUS 1R4 FAULT
SMPT - VAC01M	480 VAC BUS 1T4 FAULT
SMPT - VAC01Q	480 VAC BUS 2PS4 FAULT
SMPT - VAC02C	480 VAC EMERGENCY BUS E324 FAULT
SMPT - VAC02G	480 VAC EMERGENCY BUS E43A4 FAULT
SMPT - VAC03B	480 VAC MCC AS4-S-A2 FAULT
SMPT - VAC03C1	480 VAC MCC 3PS4-M-A FAULT
SMPT - VAC03DD	480 VAC MCC 1R4-T-A FAULT
SMPT - VAC03F	480 VAC MCC BS4-C-A FAULT
SMPT - VAC03G1	480 VAC MCC 4PS4-F-B FAULT
SMPT - VAC03HH	480 VAC MCC 1G4-P-A FAULT
SMPT - VAC03J	480 VAC MCC E124-R-C FAULT
SMPT - VAC03KK	480 VAC MCC 2G4-R-D FAULT

The Simulator Performance Tests listed below are to be performed during calendar year: 1991

PERFORMANCE TEST	PERFORMANCE TEST TITLE
SMPT - VAC03MM	480 VAC MCC 2G4-G-B FAULT
SMPT - VAC0300	480 VAC MCC 1T4-T-C FAULT
SMPT - VAC03QQ	480 VAC MCC 2T4-T-C FAULT
SMPT - VAC03SS	480 VAC MCC 2PS4-F-B FAULT
SMPT - VAC03UU	480 VAC MCC 2PS4-W-B FAULT
SMPT - VAC03WW	480 VAC MCC 1PS4-W-C FAULT
SMPT - VAC03YY	480 VAC MCC 1PS4-M-A FAULT
SMPT - VAC04B	120 VAC INSTRUMENT PANEL FAULT
SMPT - VAC04F	120 VAC INSTRUMENT PANEL FAULT

The Simulator Performance Tests listed below are to be performed during calendar year: 1992

PERFORMANCE TEST	PERFORMANCE TEST TITLE
SMPT - ANN01	CONTROL ROOM ANNUNCIATOR SYSTEM FAILURE
SMPT - APR03	APRM CHANNEL FAILS INOP
SMPT - APR06	APRM FAILS TO TRIP INOPERATIVE
SMPT - ARI142	ARI EXHAUST VALVE 142 FAILURE
SMPT - ARM03	ARM CHANNEL FAILS INOP
SMPT - CAS02	INSTRUMENT NITROGEN RECEIVER LEAK
SMPT - CRH04	CONTROL ROD DRIFTS IN
SMPT - CRH09	SCRAM DISCHARGE VENT VALVE FAILS OPEN
SMPT - CRH13	CONTROL ROD GROUP FAILS TO SCRAM
SMPT - CRM04	CONTROL ROD RPIS FAILURE
SMPT - CWS01	LOSS OF CONOWINGO POND
SMPT - CWS04	COOLING TOWER LIFT PUMP TRIP
SMPT - CWS07	TRASH RACKS BLOCKAGE
SMPT - DCD01D	250 VDC DIST. PANEL 20D08 FAULT

The Simulator Performance Tests listed below are to be performed during calendar year: 1992

PERFORMANCE TEST	PERFORMANCE TEST TITLE
SMPT - DCD02C	125 VDC DISTRIBUTION PANEL 2PPC FAULT
SMPT - DCW01	DW CHILLER WATER PUMP
SMPT - DGA01	DIESEL GENERATOR FAIL START
SMPT - ECW02	ECW COOLING FAN TRIP
SMPT - EHH04	EHC HYDRAULIC PUMP TRIP
SMPT - EHL05	LOAD SET FAILURE
SMPT - ESD03	FW HEATER LEVEL CONTROL VALVE FAILS CLOSED
SMPT - FPS01	CARDOX INJECTION TO THE DIESEL GENERATOR ROOM
SMPT - FWC04	FW FLOW TRANSMITTER FT-50 FAILURE
SMPT - FWC08	FEEDWATER PUMP MGU 120 VAC POWER LOSS
SMPT - HPC02	HPCI SPURIOUS AUTO START
SMPT - HPC06	HPCI FLOW CONTROLLER OSCILLATION
SMPT - HPW01	HPSW PUMP TRIP
SMPT - HSO01	HYDROGEN SEAL OIL PRESSURE DECREASE
SMPT - IRM01	IRM CHANNEL FAILS UPSCALE
SMPT - IRM07	IRM CHANNEL FAILS TO TRIP UPSACLE HI
SMPT - IRM08	IRM CHANNEL FAILS TO TRIP UPSACLE (HI HI)
SMPT - LPR01	LPRM FAILS UPSCALE
SMPT - MAP01	MAIN TRANSFORMER COOLING LOSS
SMPT - MAP02	LOSS OFF-SITE POWER SOURCES
SMPT - MAP06C	13.2 KV BREAKER TRIP
SMPT - MAP07D	4.16 KV EMERGENCY BUS E42 (20A18) FAULT

The Simulator Performance Tests listed below are to be performed during calendar year: 1992

PERFORMANCE TEST	PERFORMANCE TEST TITLE
SMPT - MAP07H	4.16 KV EMERGENCY BUS E-43 FAULT
SMPT - MCS03	HOTWELL LEVEL TRANSMITTER FAILS LOW
SMPT - MCS07	CONDENSATE FILTER/DEMIN RESIN INJECTION
SMPT - MFS03	REACTOR FEEDWATER PUMP LOSS OF LUBE OIL
SMPT - MFS07	LOSS OF AIR TO RFP C DISCHARGE BYPASS VALVE
SMPT - MGA03	VOLTAGE REGULATOR FAILS LOW
SMPT - MGA07	MAIN GENERATOR HYDROGEN LEAK
SMPT - MSS01	STEAM LEAKAGE INSIDE THE PRIMARY CONTAINMENT
SMPT - MSS05	MSIV DISC FAILURE
SMPT - MSS11	MSL FLOW TRANSMITTER FT-6-51 FAILURE
SMPT - MTA03	TURBINE HP VALVE FAILS CLOSED
SMPT - MTA05	STEAM SEAL REGULATOR FAILS OPEN
SMPT - OGR03	OFF GAS CONDENSER LEVEL HIGH
SMPT - PCI02	PCIS VENT TRIP COIL FAILURE
SMPT - PRM01	PRM CHANNEL FAILS UPSCALE
SMPT - RBM02	RBM CHANNEL FAILS DOWNSCALE
SMPT - RBW02	RBCCW HEAT EXCHANGER TUBE LEAK
SMPT - RCI01	RCIC TURBINE CONTROL OIL PRESSURE LOSS
SMPT - RCI05	RCIC FLOW CONTROLLER AUTO CIRCUIT FAILS HIGH
SMPT - RFC03	RECIRC MG FLOW CONTROLLER FAILS AS IS
SMPT - RHR02	RHR HEAT EXCHANGER TUBE LEAK
SMPT - RPS03	SPURIOUS SCRAM
SMPT - RRS01	RECIRC PUMP DISCHARGE VALVE FAILURE

The Simulator Performance Tests listed below are to be performed during calendar year: 1992

PERFORMANCE TEST	PERFORMANCE TEST TITLE
SMPT - RRS05	RECIRC FLOW UNIT COMPARATOR FAILURE
SMPT - RRS10	RECIRC MG INCOMPLETE START SEQUENCE
SMPT - RRS11	RECIRC PUMP HIGH VIBRATION
SMPT - RRS15	RECIRC PUMP RECCW FLOW LOSS
SMPT - RRS19	RECIRC JET PUMP RISER FAILURE
SMPT - RVI03	REACTOR LEVEL TRANSMITTER LT-73 FAILURE
SMPT - RVI07	RVP PRESSURE TRANSMITTER PT-6-105 FAILURE
SMPT - RVI11	SENSING LINE BREAK-NARROW RANGE LEVEL
SMPT - RWC04	RWCU RFSIN DEPLETION
SMPT - RWC05	RWCU DRAIN FLOW CONTROL VALVE FAILURE
SMPT - SLC02	SQUIB VALVES FAIL TO FIRE
SMPT - SRM04	SRM CHANNEL DETECTOR STUCK
SMPT - SRM08	SRM CHANNEL FAILS TO TRIP UPSCALE (HI)
SMPT - SWS02	SERVICE WATER PUMP STRUCTURE GATE FAILS CLOSED
SMPT - TBW04	TBCCW VALVE AO-2352 FAILS TO REPOSITION
SMPT - VAC01B	480 VAC BUS BS4 FAULT
SMPT - VAC01F	480 VAC BUS B24 FAULT
SMPT - VAC01J	480 VAC BUS 2R4 FAULT
SMPT - VAC01N	480 VAC BUS 2T4 FAULT
SMPT - VAC01R	480 VAC BUS 4PS4 FAULT
SMPT - VAC02D	480 VAC EMERGENCY BUS E424 FAULT
SMPT - VAC03A	480 VAC MCC AS-4-A1 FAULT
SMPT - VAC03B1	480 VAC MCC 3PS4-F-B FAULT

The Simulator Performance Tests listed below are to be performed during calendar year: 1992

PERFORMANCE TEST	PERFORMANCE TEST TITLE
SMPT - VAC03CC	480 VAC MCC 1R4-R-3 FAULT
SMPT - VAC03E	480 VAC MCC BS4-S-A21 FAULT
SMPT - VAC03F1	480 VAC MCC 4PS4-U-C FAULT
SMPT - VAC03GG	480 VAC MCC 1G4-T-D FAULT
SMPT - VAC03I	480 VAC MCC A34-Y-A FAULT
SMPT - VAC03J1	480 VAC MCC E43A4-EC-A FAULT
SMPT - VAC03L	480 VAC MCC E124-D-A FAULT
SMPT - VAC03N	480 VAC MCC E124-O-A FAULT
SMPT - VAC03P	480 VAC MCC E224-T-B FAULT
SMPT - VAC03R	480 VAC MCC E224-B-A FAULT
SMPT - VAC03T	480 VAC MCC E324-R-O FAULT
SMPT - VAC03V	480 VAC MCC E324-T-B FAULT
SMPT - VAC03X	480 VAC MCC E424-W-A FAULT
SMPT - VAC03Z	480 VAC MCC E424-D-A FAULT
SMPT - VAC04C	120 VAC INSTRUMENT PANEL FAULT

The Simulator Performance Tests listed below are to be performed during calendar year: 1993

PERFORMANCE TEST	PERFORMANCE TEST TITLE
SMPT - ANN03	ANNUNCIATOR CRY WOLF (CWA), DEFEAT (DWA)
SMPT - APR04	APRM CHANNEL AVERAGE CIRCUIT DEVIATION
SMPT - ARIF2	AR1 POWER SUPPLY FAILURE
SMPT - ARM01	ARM CHANNEL FAILS UPSCALE
SMPT - CAR01	MAIN CONDENSER AIR IN LEAKAGE
SMPT - CRH01	FLOW CONTROL VALVE FAILURE
SMPT - CRH05	CONTROL ROD ACCUMULATOR TROUBLE
SMPT - CRH10	SCRAM DISCHARGE VOLUME VENT VALVE FAILS CLOSED

The Simulator Performance Tests listed below are to be performed during calendar year: 1993

PERFORMANCE TEST	PERFORMANCE TEST TITLE
SMPT - CRM01	CONTROL ROD DRIFTS OUT
SMPT - CRM05	CONTROL ROD SLOW SCRAM TIME
SMPT - CWS02	MAIN CIRC WATER PUMP TRIP
SMPT - CWS05	COOLING TOWER FANS TRIP
SMPT - DCD01A	250 VDC DISTRIBUTION PANEL 20D12 FAULT
SMPT - DCD01E	250 VDC DIST. PANEL 20D05 FAULT
SMPT - DCD02D	125 VDC DISTRIBUTION PANEL 2PPD FAULT
SMPT - DCW02	DW CHILLED WATER CHILLER TRIP
SMPT - DGA02	DIESEL GENERATOR BREAKER AUTO CLOSE FAILURE
SMPT - EHH01	BYPASS VALVE FAILS OPEN
SMPT - EHL01	PRESSURE REGULATOR FAILS HIGH
SMPT - EHL06	LOAD RUNBACK FAILS TO TERMINATE
SMPT - ESD04	MOISTURE SEPERATOR DRAIN TANK LEVEL CONTROL VALVE FAILS CLOSED
SMPT - FWC01	RFP M/A CONTROLLER FAILURE
SMPT - FWC05	FW TEMP TRANSMITTER TT-80 FAILURE
SMPT - FWC09	STARTUP FW REG VALVE CONTROLLER FAILURE
SMPT - HPC03	HPCI TURBINE TRIP
SMPT - HPC07	HPCI STEAM SUPPLY LINE BREAK
SMPT - IMP01	LOSS OF ALL AC POWER
SMPT - IRM02	IRM CHANNEL FAILS DOWNSCALE
SMPT - IRM06	IRM CHANNEL FAILS TO TRIP DOWNSCALE
SMPT - MAP03	500 KV CONTROL AIR FAILURE
SMPT - MAP07A	4.16 KV EMERGENCY BUS E12 (20A15) FAULT

The Simulator Performance Tests listed below are to be performed during calendar year: 1993

PERFORMANCE TEST	PERFORMANCE TEST TITLE
SMPT - MAP07E	4.16 KV EMERGENCY BUS E-13 FAULT
SMPT - MAP08	4.16 KV BUS AUTO TRANSFER FAILURE
SMPT - MCS01	MAIN CONDENSER TUBE LEAKAGE
SMPT - MCS04	HOTWELL LEVEL TRANSMITTER FAILS AS IS
SMPT - MCS08	EXHAUST HOOD SPRAY VALVE FAILS CLOSED
SMPT - MFS04	REACTOR FEEDWATER PUMP MINIMUM FLOW VALVE FAILS OPEN
SMPT - MFS08	LOSS OF AIR TO RFP BYPASS VALVE CV-2558
SMPT - MGA04	VOLTAGE REGULATOR TRANSFERS TO MANUAL
SMPT - MSS06	MSIV FAILS CLOSED
SMPT - MSS08	REACTOR PRESSURE RELIEF VALVE FAILURE
SMPT - MSS12	MSL PRESSURE TRANSMITTER PT-6-60 FAILURE
SMPT - MTA04	MAIN TURBINE TRIP
SMPT - MTA06	STEAM SEAL REGULATOR FAILS CLOSED
SMPT - PCS01	COOLANT LEAKAGE INSIDE THE PRIMARY CONTAINMENT
SMPT - PCS04	DW PRESSURE TRANSMITTER PY-5-12 FAILURE
SMPT - PRM02	PRM CHANNEL FAILS DOWNSCALE
SMPT - RBM03	RBM CHANNEL FAILS INOP
SMPT - RBW03	RBCCW NON-ESSENTIAL LOAD VALVE AG-2253 FAILS CLOSED
SMPT - RCI02	RCIC FAILS TO AUTO START
SMPT - RCI06	RCIC FLOW CONTROLLER OSCILLATION
SMPT - RFC04	RECIRC MG FLOW CONTROLLER OSCILLATION

The Simulator Performance Tests listed below are to be performed during calendar year: 1993

PERFORMANCE TEST	PERFORMANCE TEST TITLE
SMPT - RHR03	LPC INJECTION VALVE FAILS CLOSED
SMPT - RMC01	RPIS TOTAL FAILURE
SMPT - RPS04	CONTROL ROD GROUP POWER FUSE FAILURE
SMPT - RRS02	RECIRC FLOW UNIT FAILS UPSCALE
SMPT - RRS06	RECIRC FLOW UNIT OSCILLATION
SMPT - RRS12	RECIRC PUMP SPEED FEEDBACK SIGNAL FAILURE
SMPT - RES16	RECIRC PUMP DW CHILLED WATER FLOW LOSS
SMPT - RRS20	RECIRCULATION LOOP RUPTURE
SMPT - RVI04	RVP PRESSURE TRANSMITTER PT-6-53 FAILURE
SMPT - RVI08	REFERENCE LINE BREAK-WIDE RANGE LEVEL
SMPT - RVI12	SENSING LINE BREAK-WIDE RANGE LEVEL
SMPT - RWC06	RWCU INLET PIPING RUPTURE
SMPT - SLC01	STANDBY LIQUID PUMP TRIP
SMPT - SRM01	SRM CHANNEL FAILS UPSCALE
SMPT - SRM05	SRM CHANNEL TTRACT PERMIT FAILURE
SMPT - SRM09	SRM CHANNEL FAILS TO TRIP UPSCALE (HI HI)
SMPT - TBW01	TBCCW PUMP TRIP
SMPT - TIP01	TIP DETECTOR STUCK
SMPT - VAC01C	480 VAC BUS A14 FAULT
SMPT - VAC01G	480 VAC BUS A34 FAULT
SMPT - VAC01H	480 VAC BUS B34 FAULT
SMPT - VAC01K	480 VAC BUS 1G4 FAULT
SMPT - VAC01O	480 VAC BUS 1PS4 FAULT
SMPT - VAC02A	480 VAC EMERGENCY BUS E124 FAULT

The Simulator Performance Tests listed below are to be performed during calendar year: 1993

PERFORMANCE TEST	PERFORMANCE TEST TITLE
SMPT - VAC02E	480 VAC EMERGENCY BUS E13A4 FAULT
SMPT - VAC03A1	480 VAC MCC 3PS4-W-C FAULT
SMPT - VAC03BB	480 VAC MCC E424-O-A FAULT
SMPT - VAC03D	480 VAC MCC BS4-S-A1 FAULT
SMPT - VAC03E1	480 VAC MCC 2PS4-W-B FAULT
SMPT - VAC03FF	480 VAC MCC 1PS4-T-A FAULT
SMPT - VAC03H	480 VAC MCC BS4-S-A FAULT
SMPT - VAC03I1	480 VAC MCC E23A4-A-C-A FAULT
SMPT - VAC03JJ	480 VAC MCC 1G4-T-A FAULT
SMPT - VAC03LL	480 VAC MCC 2G4-T-A FAULT
SMPT - VAC03NN	480 VAC MCC 2G4-P-A FAULT
SMPT - VAC03PP	480 VAC MCC 1T4-T-B FAULT
SMPT - VAC03RR	480 VAC MCC 2T4-T-B FAULT
SMPT - VAC03TT	480 VAC MCC 2PS4-U-C FAULT
SMPT - VAC03VV	480 VAC MCC 1PS4-V-A FAULT
SMPT - VAC03XX	480 VAC MCC 1PS4-C-B FAULT
SMPT - VAC03ZZ	480 VAC MCC 3PS4-O-S FAULT
SMPT - VAC04	120 VAC INSTRUMENT PANEL FAULT

The Simulator Performance Tests listed below are to be performed during calendar year: 1994

PERFORMANCE TEST	PERFORMANCE TEST TITLE
SMPT - APR01	APRM CHANNEL FAILS UPSCALE
SMPT - APR07	APRM FAILS TO TRIP UPSCALE (HI)
SMPT - APR08	APRM FAILS TO TRIP UPSCALE HI HI
SMPT - CAR02	SJAE STEAM SUPPLY VALVE FAILS (CLOSED)

The Simulator Performance Tests listed below are to be performed during calendar year: 1994

PERFORMANCE TEST	PERFORMANCE TEST TITLE
SMPT - CRH02	CRD DRIVE WATER FILTER CLOGGING
SMPT - CRH07	LOSS OF AIR PRESSURE TO CRD HCU'S
SMPT - CRH11	CRAM DISCHARGE VOLUME DRAIN VALVE FAILS OPEN
SMPT - CRM02	CONTROL ROD BLADE STUCK
SMPT - CSS01	CORE SPRAY PUMP TRIP
SMPT - CWS03	MAIN CONDENSER TUBE BLOCKAGE
SMPT - DCD01B	250 VDC DIST. PANEL 20D11 FAULT
SMPT - DCD02A	125 VDC DISTRIBUTION PANEL 2PPA FAULT
SMPT - DCD03A	24 VDC DISTRIBUTION PANEL BUS 2E FAULT
SMPT - DCW03	DWCW/RBCCW AUTO SWAPOVER FAILURE
SMPT - DGA03	DIESEL GENERATOR TRIP
SMPT - EHH02	BYPASS VALVE FAILS CLOSED
SMPT - EHL02	PRESSURE REGULATOR FAILS LOW
SMPT - EHL04	MAIN TURBINE ACCELERATION RELAY FAILURE
SMPT - ESD01	LOSS OF EXTRACTION STEAM TO FW HEATER
SMPT - ESW01	ESW PUMP TRIP
SMPT - FWC02	RFP MASTER CONTROLLER FAILURE
SMPT - FWC06	FW TEMP TRANSMITTER TT-168 FAILURE
SMPT - FWC10	STARTUP FW REG VALVE CONTROLLER OSCILLATION
SMPT - HPC04	HPCI FLOW CONTROLLER FAILS LOW
SMPT - HPC08	HPCI PUMP DISCH LINE BREAK
SMPT - IMP02	THREE MILE ISLAND ACCIDENT (BWR EQUIVALENT)

The Simulator Performance Tests listed below are to be performed during calendar year: 1994

PERFORMANCE TEST	PERFORMANCE TEST TITLE
SMPT - IRM03	IRM CHANNEL FAILS INOP
SMPT - IRM05	IRM CHANNEL FAILS TO TRIP INOP
SMPT - MAP04	13.2 KV BUS FAULT
SMPT - MAP07B	4.16 KV EMERGENCY BUS E22 (20A16) FAULT
SMPT - MAP07F	4.16 KV EMERGENCY BUS E-23 FAULT
SMPT - MAP09	13.2 KV BUS AUTO TRANSFER FAILURE
SMPT - MCS05	CONDENSATE PUMP TRIP
SMPT - MFS01	REACTOR FEEDWATER PUMP TRIP
SMPT - MFS05	REACTOR FEEDWATER PUMP MINIMUM FLOW VALVE FAILS CLOSED
SMPT - MGA01	MAIN GENERATOR TRIP
SMPT - MGA05	GENERATOR FIELD BREAKER FAILS OPEN
SMPT - MLO01	MAIN TURBINE BEARING OIL PRESSURE DECREASE
SMPT - MSS03	MSL RUPTURE OUTSIDE THE PRIMARY CONTAINMENT
SMPT - MSS07	MSIV SLOW CLOSURE TIME
SMPT - MSS09	REACTOR PRESSURE RELIEF VALVE STICKS OPEN
SMPT - MSS13	STEAM LEAKAGE OUTSIDE CONTAINMENT
SMPT - MTA07	TURBINE LP VALVE FAILS CLOSED
SMPT - OGR01	EXPLOSION IN THE OFF GAS PIPING
SMPT - PCS02	COOLANT LEAKAGE OUTSIDE THE PRIMARY CONTAINMENT
SMPT - PRM03	PRM CHANNEL FAILS INOP
SMPT - RBV01	STEAM TUNNEL VENTILATION FAN TRIP
SMPT - RBW04	RBCCW HEAT EXCHANGER SERVICE WATER FLOW BLOCKAGE

The Simulator Performance Tests listed below are to be performed during calendar year: 1994

PERFORMANCE TEST	PERFORMANCE TEST TITLE
SMPT - RCI03	RCIC TURBINE TRIP
SMPT - RFC01	RECIRC MG FLOW CONTROLLER FAILS UPSCALE
SMPT - RFC05	RECIRC MASTER CONTROLLER FAILURE
SMPT - RHR04	RHR PUMP DISCHARGE LINE BREAK
SMPT - RMC02	ROD DRIVE CONTROL TIMER MALFUNCTION
SMPT - RPS05	RPS AUTOMATIC SCRAM CIRCUIT FAILURE
SMPT - RRS03	RECIRC FLOW UNIT FAILS DOWNSCALE
SMPT - RRS07	RECIRC PUMP SHAFT SEIZURE
SMPT - RRS13	RECIRC PUMP #1 SEAL FAILURE
SMPT - RRS17	RECIRC MG CONTROL SIGNAL FAILURE
SMPT - RVI01	REACTOR LEVEL TRANSMITTER LT-72 FAILURE
SMPT - RVI05	RVP PRESSURE TRANSMITTER PT-55 FAILURE
SMPT - RVI09	REFERENCE LINE BREAK-NARROW RANGE LEVEL
SMPT - RVI13	SENSING LINE BREAK-ACTIVE CORE LEVEL
SMPT - RWC01	RWCU PUMP TRIP
SMPT - RWM01	RWM TOTAL FAILURE
SMPT - SRM02	SRM CHANNEL FAILS DOWNSCALE
SMPT - SRM06	SRM CHANNEL FAILS TO TRIP INOP
SMPT - SWC01	LOSS OF STATOR WATER COOLING FLOW
SMPT - TBW02	TBCCW HEAT EXCHANGER TUBE LEAK
SMPT - TIP02	TIP IN CORE GUIDE TUBE RUPTURE
SMPT - VAC01D	480 VAC BUS B14 FAULT
SMPT - VAC01L	480 VAC BUS 2G4 FAULT

The Simulator Performance Tests listed below are to be performed during calendar year: 1994

PERFORMANCE TEST	PERFORMANCE TEST TITLE
SMPT - VAC01P	480 VAC BUS 3PS4 FAULT
SMPT - VAC02B	480 VAC EMERGENCY BUS E224 FAULT
SMPT - VAC02F	480 VAC EMERGENCY BUS E23A4 FAULT
SMPT - VAC03AA	480 VAC MCC E424-T-B FAULT
SMPT - VAC03C	480 VAC MCC AS4-S-A FAULT
SMPT - VAC03D1	480 VAC MCC 3PS4-V-A FAULT
SMPT - VAC03EE	480 VAC MCC 2R4-R-B FAULT
SMPT - VAC03G	480 VAC MCC B24-C-A FAULT
SMPT - VAC03H1	480 VAC MCC E13A4-EC-A FAULT
SMPT - VAC03II	480 VAC MCC 1G4-G-B FAULT
SMPT - VAC03K	480 VAC MCC E124-T- FAULT
SMPT - VAC03M	480 VAC MCC E124-P-A FAULT
SMPT - VAC03O	480 VAC MCC E224-R-B FAULT
SMPT - VAC03Q	480 VAC MCC E234-D-A FAULT
SMPT - VAC03S	480 VAC MCC E324-R-B FAULT
SMPT - VAC03U	480 VAC MCC E324-D-A FAULT
SMPT - VAC03W	480 VAC MCC E324-O-A FAULT
SMPT - VAC03Y	480 VAC MCC E424-R-D FAULT
SMPT - VAC04A	120 VAC INSTRUMENT PANEL FAULT
SMPT - VAC04E	120 VAC INSTRUMENT PANEL FAULT

TEST DIFFERENCES

Date of Submittal:
01/31/91

The following is a list of the known PBAPS Unit 2 Plant Modifications that are scheduled for installation, or are currently in planning, that may change the Simulator Performance Tests to be performed during the four years between Simulator Certification submittals.

Modification Number	Title
0955x	Replacement of the Unit 2 & 3 Plant Process Computer
1549C	Installation of H ₂ Water Chemistry for Unit 2
1843	Replacement of the Feedwater Control System
0887	Replacement of the Recirculation Flow Control System
1755	Replace the Service and Instrument Air Compressors

PHILADELPHIA ELECTRIC COMPANY
PEACH BOTTOM ATOMIC POWER STATION
TRAINING DIVISION

TP- 162

TITLE: SIMULATOR CONFIGURATION MANAGEMENT
PROCEDURE

REV. 002

Originator: _____
Signature/Title _____ Date _____

Senior Instructor: _____
Signature/Title _____ Date _____

Training Supervisor: Anna Kozubek _____
Signature/Title _____ Date JAN 31 1991

Interface: _____
Signature/Title _____ Date _____

Approved for Use: W. Hill _____
Superintendent, FBTD _____ Date JAN 31 1991

Record of Biennial Review (Signature, Title, Date in one box)

PHILADELPHIA ELECTRIC COMPANY
PEACH BOTTOM ATOMIC POWER STATION
TRAINING SECTION

TP-162 Simulator Configuration Management Procedure

1.0 PURPOSE

TP-162 describes the simulator configuration management process. This process identifies, implements and tests simulator design requirements and controls and documents changes to those requirements.

2.0 SCOPE

TP-162 is applicable to all aspects of simulator configuration management.

3.0 REFERENCES

- 3.1 A-14, Plant Modifications
- 3.2 TP-161, Simulator Certification Procedure

4.0 DEFINITIONS

- 4.1 CHAMPS - Computerized History And Maintenance Planning System
- 4.2 Engineering Load - Refers to the software (disk) on which simulator modifications or SDR resolutions are initiated.
- 4.3 ENH - Enhancement. Upgrade to or replacement of existing systems equivalent to repair that cannot be associated with a MOD or SDR. Includes design changes to model simplifications and assumptions.
- 4.4 MDR - Mod-Related Discrepancy Report; resolution is dependent upon the installation of a MOD.
- 4.5 SDR - Simulator Discrepancy Report. Form used to identify and track resolution of inconsistencies in simulator performance with respect to its design database.
- 4.6 MOD - Simulator Modification. Describes the implementation of plant modifications in the simulator.
- 4.7 Training Load - Refers to the software (disk) actually used on the simulator for training.
- 4.8 Work Order - Is the mechanism by which any of a variety of sources of change may be processed. A work order can be a SDR, MOD, ENH or other source of potential change, but only one numbering system exists for the work orders. (See Exhibits TP-162-1 and TP-162-2)

5.0 RESPONSIBILITY

5.1 SUPERINTENDENT-TRAINING

The Superintendent-Training has overall responsibility for the development and implementation of training programs consistent with Federal and Code requirements and INPO Guidelines. In that capacity the Superintendent-Training is responsible for ensuring implementation and use of the Simulator Configuration Management Procedure, TP-162.

5.2 SUPERVISOR-SIMULATOR SUPPORT

The Supervisor-Simulator Support is responsible for the execution and on line control of TP-162.

5.3 INSTRUMENT AND CONTROL (I & C) TECHNICIANS

The I & C technicians are responsible for corrective, regular and preventive maintenance, troubleshooting, installation, calibration and testing of all simulator hardware and computer equipment. They are responsible for the hardware analysis, evaluation, implementation and testing of potential and actual sources of change. They are also responsible for maintaining documentation such as Wire Lists, Simulator Drawings, inventory, etc.

5.4 SIMULATION ENGINEERS

The Simulation Engineers are responsible for the analysis, evaluation, implementation and testing of potential and actual sources of change to the simulator engineering software models. They are responsible for maintaining documentation such as the Final Design Specification, etc.

5.5 TEST OPERATORS

The Test Operators are responsible for the initial screening, analysis, evaluation, implementation and testing of potential and actual sources of change to simulator performance. The Test Operators coordinate the implementation of work orders through the load management process. They are also responsible for maintaining documentation such as the Design Database, Malfunction Cause and Effect Manual, etc.

5.6 DATA ENTRY

Data Entry is responsible for the documentation and maintenance of configuration management records and databases.

6.0 PREREQUISITES

NONE.

7.0 PROCEDURE

7.1 OVERVIEW

Changes to simulator configuration are accomplished by means of work orders, which are processed identically regardless of the type of work order (SDR, MOD, MDR, ENH).

7.2 SOURCES OF CHANGE

7.2.1 Simulator Discrepancy Reports (SDR)

7.2.1.1 Simulator Discrepancy Reports are normally initiated within the training environment by simulator support, operations-training instructors, operators in training and students using Exhibit TP-162-1. Exhibit TP-162-1 is also used to track all other sources of change:

- 7.2.1.1.1 Mod-Related Discrepancy Reports (MDR)
- 7.2.1.1.2 Enhancements (ENH)
- 7.2.1.1.3 License Event Reports (LER)
- 7.2.1.1.4 Significant Operating Experience Reports (SOER)
- 7.2.1.1.5 Regulatory Requirements
- 7.2.1.1.6 Certification Performance Testing
- 7.2.1.1.7 Plant Modifications

7.2.2 Plant Modifications (MOD)

7.2.2.1 A-14. Plant Modifications includes Simulator Support on its list of Mod Team members. This is the primary source of MOD information for the simulator. CHAMPS supplemented by PORC minutes is a secondary source of plant MOD information.

7.3 INITIAL SCREENING

7.3.1 Initial Screening is the first opportunity to close out a potential source of change to the simulator. It is a means of eliminating what is obviously not applicable to simulator performance and fidelity. Where an SDR affects simulator performance or fidelity a Work Order is opened. Work Orders are tracked in the Work Order Database (SCM_WO.dbf) and once entered shall not be eliminated. Thus, if a Work Order is subsequently determined to be not valid, it shall be closed out and remain in the Work Order Database.

7.3.2 All Plant Modifications are screened and tracked initially within the MODs Database (PB2_MODS.dbf). Unlike SDRs, all MODs are kept on file, even if they will not result in a simulator Work Order and design change. MODs are logged into the Work Order Database when a Work Order is opened for that MOD. A MOD Package shall be assembled for each MOD using Exhibit TP-162-3 if a Work Order is opened.

7.4 PRIORITIES

7.4.1 Priorities are assigned in the Work Order Database based on their potential effect on simulator fidelity or performance. Priorities assigned in the Work Order Database are listed below:

- 7.4.1.1 Priority 0 - Simulator fidelity or performance is significantly degraded to the point where training objectives on that system or scenario cannot be reasonably accomplished. Corrective action must be initiated immediately.
- 7.4.1.2 Priority 1 - Simulator fidelity or performance may be moderately to significantly degraded but training objectives on that system or scenario can still be accomplished through instructor preparation or intervention. Corrective action should be initiated as soon as possible for installation within one to two scheduled training loads.
- 7.4.1.3 Priority 2 - Simulator fidelity or performance may be moderately degraded but training objectives on that system or scenario can still be accomplished with none or some instructor preparation. Corrective action should be taken within three to four scheduled training loads.
- 7.4.2.4 Priority 3 - Simulator fidelity or performance may be slightly degraded but the accomplishment of training objectives on that system or scenario does not require instructor preparation or intervention.

7.4.2 Priorities assigned to MODs in the MODs Database are listed below:

- 7.4.2.1 Priority 1 - Simulator impact; scheduled for installation. That is, a Work Order has been opened for this MOD in the Work Order Database.
- 7.4.2.2 Priority 2 - Simulator impact; not scheduled for installation; Plant Modification complete.
- 7.4.2.3 Priority 3 - Simulator impact; not scheduled for installation; Plant Modification incomplete.
- 7.4.2.4 Priority - Possible simulator impact; further information required.
- 7.4.2.5 Priority 5 - Special case; such as stimulated mod, requires extensive hardware, etc.
- 7.4.2.6 Priority 6 - Installed on the simulator.

7.4.3 Priorities represent the proposed schedule for implementation of Work Orders. When Work Orders are written against TP-162 Simulator Certification Procedure Performance Tests, the priorities represent the proposed schedule for correction of test failures.

7.5 OPENED WORK ORDERS

7.5.1 A Work Order is opened by assigning a Work Order # and priority to a MOD or SDR and by logging other appropriate data fields in the Work Order Database.

7.6 WORK ORDERS IMPLEMENTATION

7.6.1 A Work Order is in implementation when it is selected for installation in a specific Training Load. Implementation of a Work Order involves all of the following:

- Work order analysis and evaluation
- Initial design and verification
- Installation and testing
- Post-work acceptance testing

7.7 LOAD MANAGEMENT

7.7.1 The Test Operator controls the installation of a Work Order through the process of Load Management by determining the content and installation schedule of each new training load. The content of each new training load is determined approximately six weeks prior to installation. Selection is based primarily on priority and the subject to be presented in the next training cycle, but, may also be a function of time, manpower, budgetary considerations, emergent needs or component delivery schedules. A new Training Load is scheduled for installation approximately one week prior to the beginning of each 6 week training cycle, about 6 times annually.

7.7.2 A Preliminary New Load Report is generated from the Work Order Database and is provided to the Simulation Engineers and the I&C Technicians prior to each new load.

7.7.3 The Simulation Engineer conducts software resolution and initial testing on the Engineering Load. He is also responsible for building both the Engineering Load and the Training Load.

7.7.4 Post-work acceptance testing is performed on the Engineering Load and on the Training Load.

7.7.5 Of the 50 Initialization Conditions provided, the first 20 are password protected and are set and maintained as necessary with each new Training Load.

7.7.6 The training load is designated by year and number (e.g. 90-1) and a New Load Document catalogs the changes made. This report is available in the instructor's station of the simulator and is the primary means of notifying users of what changes have been made to the simulator.

7.8 CLOSED WORK ORDERS

7.8.1 After a new training load is installed on the simulator, the work order status of those installed is closed.

7.9 DOCUMENTATION

7.9.1 To ensure that all documentation is updated after the implementation and closeout of a Work Order the SDR Page 2 Report provides a checklist of documentation and database items that must be complete. The completion of documentation requirements is recorded in the Work Order Database. (See Exhibit TP-162-2).

7.10 SIMULATOR ANNUAL REVIEW

7.10.1 Simulator Modifications shall be reviewed at least once a year before December 31. The review primarily focuses on those plant modifications, which should be installed in the simulator in the coming year. Principals from operations, operations-training, simulator support and NIS division attend. Simulator support shall be responsible for submitting recommendations. The output of this meeting helps develop the design update requirements and design update schedule for the coming year.

7.11 REPORTS

7.11.1 Two reports are made available at the Simulator Instructor Station:

7.11.1.1 System Summary Report - Updated with each new Training Load this report describes all open work orders.

7.11.1.2 New Load Document - Updated with each new Training Load, this report describes the changes made on each new Training Load.

7.11.2 Other Reports:

7.11.2.1 SDR - Report generates a smooth copy of an SDR. Used as the final closeout hardcopy after installation of an SDR.

7.11.2.2 SDR Page 2 Report - Documentation closeout checklist for all Work Orders that result in a Simulator design change.

8.0 DOCUMENTATION

None

9.0 EXHIBITS

9.1 Exhibit TP-162-1 SIMULATOR DISCREPANCY REPORT FORM

9.2 Exhibit TP-162-2 SDR PAGE 2 REPORT SAMPLE

9.3 Exhibit TP-162-3 "MOD PACKAGE" SAMPLE

9.4 Exhibit TP-162-4 DATABASE DEFINITIONS

SIMULATOR DISCREPANCY REPORT
(Work Order)

W.O. # _____

System: _____ Name: _____ Date ____/____/____
I.C. #: _____ Special Conditions (Malfunctions, Tests, etc.): _____
Snapshot: _____
SDR Page 2 Required (Y/N)? _____ Testing _____ Software _____ Hardware _____

Discreption of Discrepancy:

Data References:

SDR MOD ENH MDR PRIORITY: _____ H / S / T Screened by: _____

HW/SW Implementation (Corrective Action:

Module: _____ Eqn: _____ HW: _____
SW: _____

Testing: _____ IC Reshoot? (Y/N) _____

Completed by: _____

Accepted by: _____ Date: ____/____/____ New Load: _____

SDR Page 2 Requirements (Y/N)? _____ SDR Page 2 Accepted By: _____ Date: ____/____/____

SIMULATOR WORK ORDER
 PAGE 2 REQUIREMENTS FORM

W.O. # _____

Change required to the following:

CHG REQ Y/N	DOCUMENT/DATABASE	DESCRIPTION	ATTACH. Y/N	COMPLETION DATE	INIT
	System Design Data				
	Malfunction C&E — PCM				
	Remote Functions — PCM				
	Trip Overrides — PCM				
	I/O Summary — PCM				
	Performance Test				
	P.B. 2 MODS				
	Unit 2 Differences				
	Unit 3 Differences				
	Assumption/Simp.				
	Sim. Diagrams				
	Interface Diagrams				
	Structure Chart				
	Component Listings				
	Wirelist				
	List of Materials				
	Block Diagrams				
	P.E.D.				

PBAPS SIMULATOR MODIFICATIONS PACKAGE FOR
PLANT MODIFICATION NUMBER _____

TITLE:

Work Order Assigned: _____

I. GENERAL DESCRIPTION

A. PURPOSE AND DESCRIPTION

(The information here should be directly from the Modifications Package)

B. SCOPE

(The information here should be a brief summary discussion of the Modification changes required to the Simulator)

II. HARDWARE REQUIREMENTS

A. MODIFICATIONS TO/DELETION OF EXISTING HARDWARE

B. ADDITIONAL HARDWARE

III. SOFTWARE REQUIREMENTS

A. CHANGES REQUIRED TO FLUID SYSTEMS

B. CHANGES REQUIRED TO LOGIC SYSTEMS

C. CHANGES REQUIRED TO SWITCH FUNCTIONS/INDICATING
LIGHTS/INDICATORS/RECORDERS

(List I/O override required to support panel hardware changes)

1. I/O Override capability must be modeled for all changes/additions to panel A/O, D/O, and L/O.

D. CHANGES REQUIRED TO ANNUNCIATORS

Note: For any new annunciators, the Cry Wolf Malfunction must be updated.

E. CHANGES REQUIRED TO PROCESS COMPUTER POINTS

IV. INSTRUCTOR INTERFACE REQUIREMENTS

A. CHANGES REQUIRED TO MALFUNCTIONS

B. CHANGES REQUIRED TO REMOTE PLANT FUNCTIONS

C. CHANGES REQUIRED TO TRIP OVERRIDE FUNCTIONS

D. CHANGES REQUIRED TO MONITORED PARAMETERS

V. TESTING REQUIREMENTS

A. TEST PACKAGE DESCRIPTION

The test package for this modifications package will be designed to test all the items listed in the preceding descriptions against the reference drawings to insure proper installation. (This should be a brief summary description of the scope of the test package that will be used to determine the acceptability of the completed Modifications Package)

B. FURTHER TESTING REQUIREMENTS

Additional Simulator Malfunction, Certification, or Special Tests will be performed to verify overall simulator response; at a minimum these will include: (This should be a preliminary listing of Simulator Certification Tests that should be completed after Modifications Package acceptance)

VI. DOCUMENTATION REQUIREMENTS

A. SOFTWARE DOCUMENTATION - Refer to attachment 1

B. REFERENCE DOCUMENTS

1. Those documents marked with (*) require updating/addition to the Reference Database upon completion of the Modifications Package.

DOCUMENT ID	SHT. NO.	REV. NO.
-------------	----------	----------

2. Update the following support documents if necessary:

- a. Malfunction Cause and Effect
- b. System Override/Remote Functions
- c. Monitored Parameters
- d. Control Room/Simulator Physical Comparison Database

(This database must be updated whenever a modification is to be implemented which has a hardware change associated with it. An entry must be made documenting the difference exists when the mod package is developed; followed by a "deletion" from the database when the mod package is closed.)

SIMULATOR CONFIGURATION MANAGEMENT DATABASES
FIELD DEFINITIONS

DESIGN_DBF SIMULATOR DESIGN DATABASE

SRC_DOC	Print or document #.
SHT	Sheet #.
REV	Revision #.
DOC_DATE	Date of document. Serves as a backup for Rev# or as substitute where there is no Rev# available.
TITLE	Title or description of the document.
HISTORY	Record of: MOD#, REV#, Date of MOD installation.
DATA_TYPE	Record of the type of data: PDRP - Reference Plant Performance Data PDDA - Data Analysis Performance Data PDSP - Similar Plant Performance Data PDBE - Best Estimate Performance Data
CONTROL	Manufacturer's Control #.

PB2_MODS MODS DATABASE

MODNUMBER	MOD# of the corresponding Plant Modification.
SYS_ID	2-digit Simulator system identification code. Not to be confused with the 3-digit Plant system identification code.
TITLE	Title of MOD.
EVALDATE	Date of Simulator evaluation of the Plant MOD for potential to effect a Simulator design change.
CHNG_REQ	Is a Simulator design change required (Y/N) ?
STATUS	Status of the MOD in the Plant.
PRIORITY	As described in TP-162.
WO_NUM	Work Order #: Formatted YY####.
DESC_JUST	Description and purpose of the MOD as found in CHAMPS.

SCM_WO

WO_NUM
TYPE_WO
MODNUMBER
SPEC_COND
SNAPSHOT
IC_NUM
NEWLOAD_NO
PRIORITY
IMPACT
SCREENED
DOC_POC
SYS_ID

WORK ORDER DATABASE

Work Order #: Formatted YY####.
Type of Work Order: SDR, MOD, MDR, ENH
Plant Modification #.
Special Conditions.
Snapshot.
Initialization Condition #.
New Load #.
As described in TP-162.
Affects hardware, software and/or testing?
Initials of Test Operator.
Originator.
2-digit Simulator system identification code. Not to be confused with the 3-digit Plant system identification code.
Is this a hardware item? (Y/N).
Data References.
Description of Work Order.
As described in TP-162: OPEN, IMPL, CLSD.
Date the Work Order was opened.
Date of the Work Order's current status.
Description of post work testing.
Description of corrective action.
Software module.
Software equation.
Initials of Test Operator accepting corrective action.

HW
DATAREF
DESC_JUST
WO_STATUS
DTD_OPEN
DTD_STATUS
TEST_DESC
CORRECTIVE
MODULE
EQUATION
ACCEPTED

SDRPG2

WO_NUM
DOC_NAME

D_CHNG_REQ
CHNG_DSCRIP
ATTACHMENT
CHNG_COMP

INIT

SDR PAGE 2 DOCUMENTATION REQUIREMENTS DATABASE

Work Order #: Formatted YY####
Name of the documentation or database that must be update as a result of this Work Order.
Is a change required to this document or database? (Y/N)
Describe the change made to this document or database.
Are there attachments appended to this Page 2? (Y/N)
Date change to documentation or database accepted complete.
Accepted by. (Initials)