REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

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CURTIS,N.W. Pennsylvania Power & Light Co.
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SCHWENCER,A. Licensing Branch 2

SUBJECT: Forwards test abstracts added to FSAR,Section 14.2,for review.Info will be incorporated in next FSAR amend.

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	RGN1		3	3	RM/DDAMI/MIB		1	0
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	DMB/DSS (AMDTS)		1	1	FEMA-REP DIV	39	1	1
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REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

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SUBJECT: Forwards test abstracts added to FSAR Section 14.2,for review.Info will be incorporated in next FSAR amend.

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	IE/DEQA/QAB 21	1	1	NRR/DE/AEAB	1	0
	NRR/DE/CEB 11	1	1	NRR/DE/EHEB	1	1
	NRR/DE/EQB 13	2	2	NRR/DE/GB 28	2	2
	NRR/DE/MEB 18	1	1	NRR/DE/MTEB 17	1	1
	NRR/DE/SAB 24	1	1	NRR/DE/SGEB 25	1	1
	NRR/DHFS/HFEB40	1	1	NRR/DHFS/LQB 32	1	1
	NRR/DHFS/PSRB	1	1	NRR/DL/SSPB	1	0
	NRR/DSI/AEB 26	1	1	NRR/DSI/ASB	1	1
	NRR/DSI/CPB 10	1	1	NRR/DSI/CSB 09	1	1
	NRR/DSI/ICSB 16	1	1	NRR/DSI/METB 12	1	1
	NRR/DSI/PSB 19	1	1	NRR/DSI/RAB 22	1	1
	NRR/DSI/RSB 23	1	1	REG FILE 04	1	1
	RGN1	3	3	RM/DDAMI/MIB	1	0
EXTERNAL:	ACRS 41	6	6	BNL(AMDTS ONLY)	1	1
	DMB/DSS (AMDTS)	1	1	FEMA-REP DIV 39	1	1
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Norman W. Curtis
Vice President-Engineering & Construction-Nuclear
215/770-7501

DEC 29 1983

Director of Nuclear Reactor Regulation
Attention: Mr. A. Schwencer, Chief
Licensing Branch No. 2
Division of Licensing
U.S. Nuclear Regulatory Commission
Washington, DC 20555

SUSQUEHANNA STEAM ELECTRIC STATION
ADDITION TO FSAR 14.2 TEST DESCRIPTIONS
ER 100508 FILE 841-2
PLA-1996 Docket No. 50-388

Dear Mr. Schwencer:

The following test abstracts have been added to Section 14.2 for Susquehanna SES Unit 2 preoperational and acceptance tests:

P233.4 Post Accident 1E Power (This abstract was listed in our previous submittal as a later).

P249.2 Post Accident RHR Flow, Drywell Spray and Suppression Pool Spray (This abstract was listed in our previous submittal as a later).

P253.2 Standby Liquid Control System Initiation Instrument Loop (This is a new abstract).

A239.2 Ultra Sonic Resin Cleaner (This is a new abstract).

A272.1 Off Gas Recombiner System (This is a new abstract).

A272.2 Off Gas Recombiner System (This is a new abstract).

A290.1 Safety Parameter Display System (This is a new abstract).

A290.2 Safety Parameter Display System Power Supply (This is a new abstract).

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These abstracts are for your review and will be included in the next amendment to the FSAR.

Very truly yours,

N. W. Curtis
Vice President-Engineering & Construction-Nuclear

cc: R. L. Perch NRC

Required instruments are calibrated and controls are operable. Required electrical power supply systems and the Instrument Air System are available.

Test Method - System operation is initiated manually and the fan air flow, damper operation, heater operation and ambient conditions inside the pumphouse are determined. Required controls are operated or simulated signals are applied to verify fan(s) automatic starts with associated pump starts and system interlocks and alarms.

Acceptance Criteria - The system performance parameters are in accordance with the applicable design documents.

(P233.4) Post Accident 1E Power Preoperational Test

Test Objective - To demonstrate the operability of the circuit breakers for the Turbine Building Stack and Reactor Building Stack Noble Gas Sample pumps.

Prerequisites - Construction is complete to the extent necessary to perform this test and the system is turned over to the ISG.

Test Method - Component technical procedures completed and verified.

Acceptance Criteria - Component technical procedures have been completed.

(P234.1) Reactor Building H&V System Preoperational Test

Test Objective - The general objective of this test is to demonstrate proper operation of the Unit II Reactor Building Heating and Ventilation (H&V) System, after the removal of the Unit I isolation boundary tags. Specific objectives are to demonstrate the following:

(1) The ability of the system to isolate the required areas on receipt of a LOCA signal or high radiation signal.

(2) The ability of the system to maintain the Reactor Building at a negative pressure.

(3) The ability of system fans to perform in accordance with design intent.

(4) The ability of the backdraft isolation dampers to automatically isolate localized areas of the H&V system.

2. RHR Service Water Injection valves HV-E11-2F073A&B, 2F074A&B and 2F075A&B interlocks and logic are tested in the RHRSW Preoperational Test P216.1.

3. The interlocks between Unit 1 & II automatic initiation logic of the RHRS pumps will be functionally demonstrated.

4. Steam Condensing Mode is fully demonstrated during the Startup Program.

All GE components are prefixed by MPL E11 unless otherwise noted.

Prerequisites - Construction is complete to the extent necessary to perform this test and the system is turned over to the ISG. Required instruments are calibrated and controls are operable. Required electrical power supply systems and the Instrument Air Systems are available. Reactor pressure vessel, suppression pool, fuel pool, and fuel pool skimmer surge tank are filled up to required level to provide enough suction head to the RHR pumps. Makeup water sources are available.

Test Method - The operating modes of the system are initiated manually and where applicable, automatically. RHR pump performance is determined for each operating mode. Control devices are operated or simulated signals are applied to verify valve alignment, LPCI mode operation for low reactor water level and high drywell pressure, and other system interlocks and alarms.

Acceptance Criteria - The system performance parameters are in accordance with applicable engineering design documents.

(P249.2) Post Accident RHR Flow, Drywell Spray and Suppression Pool Spray

Test Objective - Demonstrate operability of the instrumentation to monitor RHR system flow in the Drywell Spray and Suppression Pool Spray piping.

Prerequisites - Construction is complete to the extent necessary to perform this test and the system is turned over to the ISG. Required inspections and calibrations of system instruments are complete and on file.

Test Method - Instrument calibrations completed and verified.

Acceptance Criteria - Instrument calibrations have been completed.

(P250.1) Reactor Core Isolation Cooling System Preoperational Test

Liquid Control System. Specific objectives are to demonstrate the following:

(1) The ability of the system to deliver the designed quantity of fluid to the reactor vessel. This test will be performed with water as a substitute for the neutron absorber.

(2) The operability of instrumentation, controls, interlocks, alarms, heaters, air sparqers and heat tracing.

(3) The ability to verify redundancy and electrical independence, and conduct test firings of squib actuated valves, and demonstrate design injection capability.

Prereguisites - Construction is complete to the extent necessary to perform this test and the system is turned over to the ISG. Required instruments are calibrated and controls are operable. The reactor vessel is available to receive water injected from the Standby Liquid Control System. Required electrical power supply systems and a source of demineralized makeup water are available.

Test Method - System operation is initiated manually. Demineralized water is used for testing the system. The pumps are run taking suction from the standby liquid storage tank and the test tank. Squib valves are fired and the rate of demineralized water injection into the reactor vessel from each pump is measured. Required controls are operated or simulated signals are applied to verify interlocks and alarms.

Acceptance Criteria - The system performance characteristics are in accordance with the applicable design documents.

(P253.2) Standby Liquid Control System Initiation Instrument Loop Preoperatonal Test

Test Objective - To demonstrate proper operation of the instrument loop added to the SLCS by Regulatory Guide 1.97.

Prereguisites - Construction is complete to the extent necessary to perform this test and the system is turned over to the ISG. Component calibrations have been completed satisfactorily.

Test Method - System flow is initiated by design means and recorded along with storage tank level from instruments being tested.

Acceptance Criteria - Verify installed instruments indicate accurately.

Prerequisites - Construction is complete to the extent necessary to perform this test and the system is turned over to the ISG. Component technical procedures, component calibrations have been completed satisfactorily.

Test Method - The system will be tested while processing water at 100% rated flow and at 120% rated flow, verifying that monitored influent and effluent parameters do not exceed design values. Resin capacity will be tested (one bed minimum) by processing the design quantity of water and verifying that monitored effluent paramenters do not exceed design values prior to achieving the design output. Control functions related to all modes of operation shall be demonstrated. Flow paths will be verified under actual operation as will all valve operations, motor-driven equipment performance, demonstration of all monitoring control and support equipment while processing dirty, exhausted resin charges exposed to condensate flow, through the regeneration modes, returning the resin charge to inservice processing condensate to design quality effluent. Simulation of functions will be used where off-normal conditions cannot be established or redundant testing of the same function under actual conditions serves no purpose.

Acceptance Criteria - Each vessel passing rated flow will produce water quality at design spec or better. Each vessel is capable of passing 120% rated flow for a short period of time. The condensate demineralizer and regeneration systems are pushbutton initiated, automatically controlled from a local control panel for all modes of operation. An automatically controlled isolation valve protects the resin transfer system from condensate system pressure. A proper concentration of acid solution is supplied to regenerate the cation resins and the proper concentrations of caustic solution at the proper temperature is supplied to regenerate the anion resins.

A239.2 Ultra Sonic Resin Cleaner

Test Objective - To ensure design requirements are met and document critical operating parameters.

Prerequisites - Construction is completed to the extent necessary to perform this test and the system is turned over to the ISG. Regeneration system is not in use. The resin storage vessel is empty of resin and the Cation Vessel is filled with test resin.

Test Method - System is to be run using intrinsic components with both exhausted and fresh resin.

Acceptance Criteria - The system processes 0.5 to 1.5 cubic ft. of mixed resin beads per minute as required. Resin processed meets cleanliness requirements with minimal resin losses due to resin failure from ultrasonic generation.

Test Method - Subsystem pumps are operated and performance characteristics are determined. Level controls are operated to verify alarms, pump starts and pump shutoffs. Performance of the liquid radwaste filtration, demineralization, chemical waste neutralization, chemical radwaste evaporation system, laundry radwaste filtration and effluent isolation is determined to the extent possible during this test.

Acceptance Criteria - The system performance parameters are in accordance with the applicable design documents.

A271.1 GASEOUS RADWASTE RECOMBINER CLOSED COOLING WATER SYSTEM ACCEPTANCE TEST

Test Objective - To demonstrate the proper operation of the GRRCCW system, specifically, that the cooling pumps supply the rated flow to the system, the cooling water is temperature controlled, and the chemical addition tank has flow capabilities for adding chemicals to the system.

Prerequisites - Construction is completed to the extent necessary to perform this test and the system is turned over to the ISG. Required electrical power supply systems are available. Required instruments are calibrated and controls are available. The instrument air system is available. The service water system is operational and lined up to the GRRCCW heat exchangers.

Test Method - The system operation is initiated manually, and where applicable automatically. The system is operated in the system design modes and GRRCCW pumps performance is determined. Required controls are operated or simulated to verify automatic system functions and alarms.

Acceptance Criteria - The Unit One (1) and Common cooling water flow through the heat exchangers is temperature controlled through a range of 90° to 120°F. The Unit One (1) and common cooling water pumps deliver 1124 gpm to the respective system. Chemicals can be added to the system when flow is established through the Unit One (1) and common chemical addition tanks.

A272.1 OFF GAS RECOMBINER SYSTEM ACCEPTANCE TEST

Test Objective - To demonstrate the operaton of the Off-Gas Recombiner System, specifically, that the system will operate in the standby, pre-start and process modes and that the standby recombiner can be brought on line within 10 minutes.

Prerequisites - Construction is completed to the extent necessary to perform this test and the system is turned over to the ISG. Required electrical power supply systems are available. Required instruments are calibrated and controls are available. The instrument air system is operational. The following systems are

operational as needed: Condensate system, GRRCCW system, RBCCW, Auxiliary Boiler, and Main Condenser.

Test Method - The system operation is initiated manually, and where applicable, automatically. The system is operated in the system design modes, required controls are operated or simulated to verify automatic system functions and alarms.

Acceptance Criteria - The Unit II Off-Gas Recombiner System performs the following:

1) The Off-Gas Recombiner System will operate in the Standby, Prestart and Process modes.

2) The Unit 2 recombiner can maintain recombiner temperature close to 300°F and can be brought on line in 10 minutes.

3) The Off Gas Recombiners can be transferred and shut down locally and from the main control room.

4) The Charcoal Absorber subtrains are capable of being transferred and isolated locally and from the main control room.

A272.2 Off Gas Recombiner System

Test Objective - To demonstrate the operation of the Off Gas Recombiner unit two cross tie with the unit common recombiner; such that the unit two off gas can be processed through the common recombiner and on to the unit two charcoal absorbers.

Prerequisites - The completion and acceptance of test A272.1B. Component technical procedures and instrument calibrations associated with the unit two and common cross-ties as required are performed. The unit two Turbine Building Ventilation and Offgas Radiation Monitoring system is in service. Unit two shall have, in effect, a license to discharge gaseous radioactive effluent.

Test Method - System operation is initiated manually, and where applicable operated in the system design modes. Required controls are operated or simulated to verify automatic system function.

Acceptance Criteria - Unit two and common recombiner and charcoal train components are capable of being transferred, shutdown, crosstied and isolated locally or remotely depending on the requirements of unit one and unit two.

A274.1 NITROGEN STORAGE AND SUPPLY SYSTEM ACCEPTANCE TEST

Prerequisites - Construction is complete to the extent necessary to perform this test and the system is turned over to the ISG. Required calibration and operation of instruments, protective devices, and breakers is verified. 480V AC Power, Resistor Load Bank, Battery Room Ventilation and Emergency Eyewash is available and/or in service.

Test Method - The Battery Performance Test is manually initiated by connecting the battery bank to the resistor load bank and discharging the battery at a constant current for a specified period of time. The Battery Service Test is manually initiated by connecting the battery bank to the resistor load bank and simulating, as closely as possible, the load the battery will supply during a design basis accident. Following the battery service test, the battery will be charged while the chargers are also supplying the maximum expected steady-state plant loads as simulated with the resistor load bank. Each battery charger is also connected to the resistor load bank and current is increased to its maximum rating with the charger isolated from the battery bank to verify charger capacity, ripple, regulation and current limit capability.

Acceptance Criteria - The batteries can satisfactorily deliver stored energy for the specified amount of time as required for the Performance and Service Test. The battery chargers can deliver rated output and can charge their associated battery bank from minimum voltage to a fully charged state in a specified amount of time while simultaneously supplying normal loads.

A290.1 - Safety Parameter Display System Acceptance Test

Test Objective - Verify proper data system response to dynamic system variations. Verify primary parameter display dynamic response and ensure display keyboards have proper system command control.

Prerequisites - Construction is complete and the system is turned over to the ISG. Component technical procedures and calibrations are complete and on file.

Test Method - The SPDS is verified operational by using intrinsic components and features and by simulating varying plant conditions to test system response.

Acceptance Criteria - Verify diagnostic point display and primary parameter display respond as designated to simulated dynamic inputs. Control Room and TSC, function switch panel and aydin display keyboards direct SPDS CRT's properly.

A290.2 Safety Parameter Display System Power Supply Acceptance Test

Test Objectives - Demonstrate the ability of the static and manual transfer switches to provide SPDS loads from either the preferred or alternate power supply.

Prerequisites - Construction is complete and the system is turned over to the ISG. Component technical procedures and calibrations are complete and on file.

Test Method - A strip chart recorder and variable load bank are used to vary operating conditions and record system response.

Acceptance Criteria - All power supplies are verified to supply 120 vac. Both static and manual transfer switches transfer from one power supply to another as designed.

A291.1 ANNUNCIATOR SYSTEM ACCEPTANCE TEST

Test Objective - The general objective of this test is to demonstrate proper operation of the plant annunciators. Specific objectives are to demonstrate the following:

(1) The ability of the main control room annunciators to provide audible and visual indication of an alarm condition.

Prerequisites - Construction turnover of the system is complete to the extent required to conduct this test. The system has been walked through, verified complete and the component technical tests have been completed.

Test Method - Simulated alarms are applied and the audible and visual indication verified. Annunciator loss of power and ground detection feature are also tested, where applicable.

Acceptance Criteria - The system performance parameters are in accordance with applicable engineering design documents.

A292.1 TURBINE STEAM SEALS & DRAINS ACCEPTANCE TEST

Test Objective - The objective of this test is to demonstrate the proper operation of the turbine steam seal system and drains using the auxiliary boiler steam supply to the turbine steam seal header. Also, the test will demonstrate the ability of the steam packing exhauster to maintain a proper vacuum on the steam seal exhaust header.

Prerequisites - Construction is complete to the extent necessary to perform this test and the system is turned over to the ISG. Required instruments are calibrated and controls are operable. Required electrical supply systems are available. The instrument air system is operational. The auxiliary boilers are available and in the standby mode. The condensate system is operational.

TABLE 14.2-6

UNIT 2 PREOPERATIONAL TEST PROCEDURES

Test Number	Test Definition
P202.1	125 volt dc System
P204.1	4.16 KV System
P205.1	ESS 480 volt Load Center
P205.2	Non-ESS 480 Volt Load Center.
P205.3	ESS 480 Volt Motor Control Center
P205.4	Non-ESS 480 Volt Motor Control Center
P213.1	Fire Protection Water System
P213.3	Fire and Smoke Detection System
P213.4	Halon 1301 Extinquishing System
P214.1	Reactor Building Closed Cooling Water System
P216.1	RHR Service Water System
P216.2	RHR heat Exchanger Discharge Temperature Indication
P217.1	Instrument ac Power System
P225.1	Primary Containment Instrument Gas System
P225.2	Containment Instrument Gas Pressure LOOP
P228.1	ESSW Pumphouse H&V System
P230.1	Control Structure H&V System
P233.4	Post Accident IE Power
P234.1	Peactor Building H&V System
P234.2	Reactor Building Chilled Water System
P234.3	Reactor Building Electrical Equipment Room H&V System
P234.4	Emergency Switchgear Room Cooling System
P245.1	Feedwater System

TABLE 14.2-6 (Continued)

Test Number	Test Definition
P245.2	Feedwater Control System
P249.1	Residual Heat Removal System
P249.2	Post Accident RHR Flow
P250.1	Reactor Core Isolation Cooling System
P251.1	Core Spray System
P251.2	Core Spray System Pattern
P252.1	High Pressure Coolant Injection System
P253.1	Standby Liquid Control System
P253.2	Standby Liquid Control System Initiation Instrument Loop
P254.1	Emergency Service Water System
P255.1	Control Rod Drive System
P256.1	Reactor Manual Control System
P256.2	Rod Sequence Control System
P256.3	Rod Worth Minimizer System
P257.1	Uninterruptable ac Power System
P258.1	Reactor Protection System
P259.1	Primary Containment System
P259.2	Containment Integrated Leak Rate Test
P259.3	Local Leakage Rate Test
P259.4	Primary Containment Isolation Valve Timing Test
P260.1	Containment Atmosphere Circulation System
P261.1	Reactor Water Cleanup and Filter Demineralizer System
P264.1	Reactor Recirculation System
P269.1	Liquid Radwaste Collection System

TABLE 14.2-6 (Continued)

Test Number	Test Definition
P270.1	Standby Gas Treatment and Secondary Containment Isolation System
P273.1	Containment Atmospheric Control System
P273.2	Containment Hydrogen Recombiner System
P273.3	Containment Oxygen and Hydrogen Analyzer
P275.1	24 volt dc System
P276.1	Plant Leak Detection System
P276.3	Post Accident Sampling System
P278.1	Source Range Monitoring System
P278.2	Intermediate Range Neutron Monitoring System
P278.3	Average Power Range Neutron Monitoring System
P278.4	Traversing Incore Probe System
P278.5	Post Accident Neutron Monitoring
P279.1	Area Radiation Monitoring System
P279.2	Main Steam Line Radiation Monitoring Subsystem
P279.3	Liquid Process Radiation Monitoring Subsystem
P279.4	Refueling Floor Wall and High Exhaust Subsystems
P279.5	Offgas Pretreatment Radiation Monitoring Subsystem
P279.6	Reactor and Turbine Vent Stack Rediation Monitoring Subsystem
P279.7	Primary Containment Radiation Monitoring Subsystem
P279.8	Containment Accident Range Radiation Monitoring Subsystem
P279.9	Post Accident Area Radiation Monitoring
P280.1	Reactor Nonnuclear Instrumentation System
P280.2	Post Accident RPV Instrumentation

TABLE 14.2-6 (Continued)

Test Number	Test Definition
P281.1	Fuel Handling System
P283.1	Nuclear Steam Supply Shutoff System
P283.2	ADS/Safety Relief System
P283.3	Main Steam Leakage Control System
P283.4	Steam Leak Detection System
P288.1	250 volt dc System
P299.1	Reactor Building Crane
P200.1	Cold Functional Test

TABLE 14.2-7

UNIT 2 ACCEPTANCE TEST PROCEDURES

Test Number	Test Definition
A203.1	13.8 kV System
A207.1	Lighting System and Miscellaneous 120V Distribution
A208.1	Domestic Water System
A211.1	Station Service Water System
A215.1	Turbine Building Closed Cooling Water System
A218.1	Instrument Air System
A219.1	Service Air System
A220.1	Non Radioactive Building Drain System
A231.1	Computer Uninterruptible Power Supply
A231.2	Computer
A232.1	Security Devices
A232.2	South Gatehouse Equipment
A232.3	South Gatehouse HVAC System
A232.4	LLRWF Security System
A233.1	Turbine Building H&V System
A233.2	Turbine Building Chilled Water System
A233.3	Turbine Building Battery Room Exhaust System
A235.1	Fuel Pool Cooling and Cleanup System
A237.1	Makeup Transfer and Storage, Condensate and Refueling Water Transfer Systems
A239.1	Condensate Demineralizer System
A239.2	Ultra Sonic Resin Cleaner
A240.1	Lube Oil Transfer, Storage & Purification System
A241.1	Cooling Tower System
A242.1	Circulating Water System

TABLE 14.2-7 CONTINUED

Test Number	Test Definition
A243.1	Condenser Air Removal System
A243.2	Condenser Tube Cleaning System
A244.1	Condensate System
A246.1	Extraction Steam System
A263.1	Bypass Indication
A267.1	Loose Parts Monitoring System
A268.1	Solid Radwaste System
A269.2	Liquid Radwaste Processing Subsystem
A271.1	Gaseous Radwaste Recombiner Closed Cooling Water
A272.1	Off Gas Recombiner System
A272.2	Off Gas Recombiner System
A274.1	Nitrogen Storage & Supply System
A276.2	Process Sampling System
A284.1	Moisture Separators
A285.1	Cathodic Protection System
A285.2	Freeze Protection System
A288.2	Non-ESS 250 Volt DC System
A290.1	Safety Parameter Display System
A290.2	Safety Parameter Display System Power Supply
A291.1	Plant Annunciators
A292.1	Turbine Steam Seals & Drains
A293.1	Turbine Lube Oil Systems
A293.2	Turbine Electro Hydraulic Control and Supervisory Systems
A295.1	Hydrogen Seal Oil System
A297.1	Stator Cooling System

TABLE 14.2-7 CONTINUED

Test Number	Test Definition
A298.1	Main Generator & Excitation System
A299.2	Communication System
A299.3	Communication System
A299.4	Radiation Area Doors