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 FACIL: 50-388 Susquehanna Steam Electric Station, Unit 2, Pennsylvania 05000388  
 AUTH. NAME: CURTIS, N.W. AUTHOR AFFILIATION: Pennsylvania Power & Light Co.  
 RECIPIENT AFFILIATION: Licensing Branch 2

SUBJECT: Provide's addl rev to FSAR Section 14.2 re preoperational test program. Rev will be incorporated in next amend to FSAR.

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DEC 21 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  
ADDITIONAL REVISION TO FSAR SECTION 14.2  
ER 100508 FILE 841-2  
PLA-1982

Docket No. 50-388

Dear Mr. Schwencer:

The following are revisions to our preoperational test program descriptions for Susquehanna SES Unit 2:

14.2.12.4 Test P234.3 was revised to delete the prerequisite to have the Instrument Air System and Reactor Building Chilled Water System available. The Reactor Building Electrical Equipment Room Heating and Ventilation System does not use either of these systems. The Heating and Ventilation System takes outside air in and/or recirculates room air and has no chilled water coils. The system's damper motors are electric/hydraulic and have no pneumatic controls.

Test P260.1 has been revised to delete the prerequisite that the Reactor Building Chilled Water System or an alternate cooling water supply are available. Since this test is performed without simulated heat loads in the drywell, there is no functional requirement for chilled water. The functional operability of the Reactor Building Chilled Water System is verified in other Preoperational Tests and a Startup Test.

These revisions will be incorporated in the next amendment to the FSAR.

Very truly yours,

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

cc: R. L. Perch NRC

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Building at negative pressure within the required thermal environment and areas of greater potential contamination at a lower pressure than the rest of the building.

Required controls are operated or simulated signals are applied to verify the system isolation on LOCA and/or high radiation signal, and other system interlocks and alarms.

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

(P234.2) Reactor Building Chilled Water System Preoperational Test

Test Objective - The general objective of this test is to demonstrate proper operation of the REactor Building Chilled Water System. Specific objectives are to demonstrate the following:

- (1) Proper operation of all alarms and interlocks.
- (2) Proper system flow paths and rates.
- (3) The ability of system automatic features to function as required.

Prerequisite - 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 Building Closed Cooling Water System, Service Water System, Instrument Air System, Make-up Demineralizer Water System and required electrical power supply systems are available.

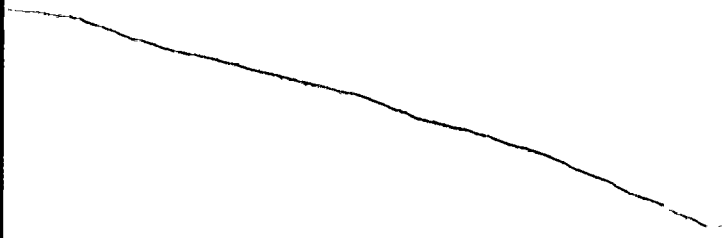
Test Method - The system is operated to demonstrate the chiller and chilled water pump operation. Required controls are operated or simulated signals are applied to verify system isolation, automatic valve alignment, equipment operation under emergency condition and system interlocks and alarms.

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

(P234.3) Reactor Building Electrical Equipment Room H&V System Preoperational Test

Test Objective - The general objective of this test is to demonstrate the proper operation of the Reactor Building Electrical Equipment Room Heating and Ventilation System. Specific objectives are to demonstrate the following:

- (1) The ability of the system to supply cooling air to the reactor building electrical equipment room.



- (2) To verify the operation of the unit heater.

Prerequisite - 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, are available.

Test Method - System operation is initiated manually and fan air flow, damper operation, heater operation, and ambient temperatures inside the reactor building electrical equipment room are determined. Required controls are operated or simulated to verify fan trips on low air flow and annunciation is received on loss of power to fan.

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

(P234.4) Emergency Switchgear Room Cooling System Preoperational  
-----Test-----

Test Objective - To demonstrate the capability of the system to maintain the required ambient temperatures inside the Emergency Switchgear Room.

Prerequisites - Construction is complete to the extent necessary to perform this test and the system is turned over to ISG. Required instruments are calibrated and controls are operable. Required electrical supply systems, instrument air system, and chilled water system are available.

Test Method - System operation is initiated manually and fan air flow, damper operation, and heater operation is verified. Required ambient temperatures are determined. Required controls are operated or simulated signals are applied to verify automatic starts, system interlocks, and alarms.

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

(P245.1) Feedwater System Preoperational Test

Test Objectives - The general objective of this test is to demonstrate proper operation of the Feedwater System. Specific objectives are to demonstrate the following:

- 1) System controls function in accordance with design intent.
- 2) Interlocks with the main turbine, recirculation system and feed pumps function correctly.

interlock relay contacts. Upon initiation of the simulated signals, the valve(s) will be timed from their pre-isolation to their post-isolation position.

Acceptance Criteria - Valves receiving automatic isolation signals close (open) within the required time noted in FSAR Table 6.2-12.

(P260.1) Containment Atmosphere Circulation System Preoperational  
-----Test-----

Test Objective - The general objective of this test is to demonstrate proper operation of the Containment Atmosphere Circulation System. Specific objectives are to demonstrate the following:

- (1) The ability of the primary Containment Atmosphere Circulation System to maintain temperatures in the drywell various spaces within specific limits during normal or transient mode of operation.
- (2) The ability to provide additional cooling in the CRD (control rod drive), area after a SCPAM (sudden shutdown of nuclear reactor) mode of operation.

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 are available.

Test Method - The system operation is initiated manually, and flow for each fan is determined. Required controls are operated or simulated signals are applied to verify; automatic start of standby units and other system interlocks and alarms. No heat loads are simulated during the test.

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

(P261.1) Reactor Water Cleanup and Filter Demineralizer System  
-----Preoperational Test-----

Test Objectives - The general objective of this test is to demonstrate proper operation of the Reactor Water Cleanup and Filter Demineralizer System. Specific objectives are to demonstrate the following:

- (1) The ability of the Reactor Water Cleanup System to use the various flow paths:

