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FACIL:50-387 Susquehanna Steam Electric Station, Unit 1, Pennsylva 05000387
50-388 Susquehanna Steam Electric Station, Unit 2, Pennsylva 05000388
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RECIP.NAME RECIPIENT AFFILIATION
SCHWENCER,A. Licensing Branch 2

SUBJECT: Responds to request to provide differences between Units 1 & 2 initial test programs,Ultrasonic resin cleaner added to both units,Cooling water sys test deleted from Unit 2 program.

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

SUSQUEHANNA STEAM ELECTRIC STATION
INITIAL TEST PROGRAM - UNIT 1/UNIT 2
DIFFERENCES
ER 100508 FILE 841-2
PLA-2001 Docket No. 50-388

Dear Mr. Schwencer:

This letter is in response to your staff's request to provide the differences between the Susquehanna SES Unit 1 and Unit 2 Initial Test Programs.

I. The following Preoperational tests were performed on Unit 1 but are not performed on Unit 2.

P13.2 Carbon Dioxide Fire Protection System
This test was not performed during the Unit 2 Preoperational Test Program since the Unit 2 carbon dioxide fire protection system was tested during the Unit 1 Preoperational Test Program.

P23.1 Diesel Fuel Oil System
This test was not performed on during the Unit 2 Preoperational Test program because the diesel generators are a system common to both units and were tested during the Unit 1 Preoperational Test Program.

P24.1 Diesel Generator System
This test was not performed during the Unit 2 Preoperational Test Program because the diesel generators are common to both units and were tested during the Unit 1 Preoperational Test Program.

P28.3 Diesel Generator Building Heat and Ventilation System
This test was not performed during the Unit 2 Preoperational Test Program because the diesel generator building is common to both units and was tested during the Unit 1 Preoperational Test Program.

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P30.2 Control Structure Chilled Water System
This test was not performed during the Unit 2 Preoperational Test Program because the Control Structure Chilled Water System is common to both units and was tested during the Unit 1 Preoperational Test Program.

II. The following preoperational tests were included in the Unit 2 Preoperational Test Program but were not included for Unit 1.

P205.1 ESS 480 Volt Load Center
This test is equivalent to P5.1A which was performed during the Unit 1 Preoperational Test Program.

P205.2 Non-ESS 480 Volt Load Center
This test is equivalent to P5.1B which was performed during the Unit 1 Preoperational Test Program.

P205.3 ESS 480 Volt Motor Control Center
This test is equivalent to P5.1C which was performed during the Unit 1 Preoperational Test Program.

P205.4 Non-ESS 480 Volt Motor Control Center
This test is equivalent to P5.1D which was performed during the Unit 1 Preoperational Test Program.

P216.2 RHR Heat Exchanger Discharge Temperature Indication
This test is being performed during the Unit 2 Preoperational Test Program since this indication was added to satisfy Regulatory 1.97 requirements.

P225.2 Containment Instrument Gas Pressure Loop
This test is being performed during the Unit 2 Preoperational Test program since equipment was added to satisfy Regulatory Guide 1.97 requirements.

P233.4 Post Accident IE Power
This test is being performed during the Unit 2 Preoperational Test Program since this power supply was added to meet Regulatory Guide 1.97 requirements.

P234.3 Reactor Building Electrical Equipment Room H&V System
This test is being performed during the Unit 2 Preoperational Test Program to test the heating and ventilating system for the SPDS power supply.

P234.4 Emergency Switchgear Room Cooling System
This test is being performed during the Unit 2 Preoperational Test program due to a redesign of the control structure chilled water system to avoid a potential overload condition.

P249.2 Post Accident RHR Flow
This test is being performed during the Unit 2 Preoperational Test Program since equipment was added to satisfy Regulatory Guide 1.97 requirements.

P253.2 Standby Liquid Control System Initiation Instrument Loop
This test is being performed during the Unit 2 Preoperational Test Program since equipment was added to satisfy Regulatory Guide 1.97 requirements.

P278.5 Post Accident Neutron Monitoring
This test is being added to the Unit 2 Preoperational Test Program to test the post accident neutron monitors which were installed to meet Regulatory Guide 1.97.

P279.9 Post Accident Area Radiation Monitoring
This test is being added to the Unit 2 Preoperational Test Program to test the post accident area radiation monitors which were added to meet the requirements of Regulatory Guide 1.97. These monitors are presently installed in Unit 2 only.

P280.2 Post Accident RPV Instrumentation
This test is being added to the Unit 2 Preoperational Test Program to test the RPV Instrumentation which was added to meet the requirements of Regulatory Guide 1.97.

III. The following Acceptance Tests which are described in the FSAR and which were performed during the Unit 1 test program are not included as part of the Unit 2 Acceptance Test because these tests were on systems or structures which are common to both units or related to the operation of Unit 1 only.

A22.1 Makeup Demineralizer System
A30.3 Control Structure Miscellaneous H&V System
A32.1 Security 125V DC System No. 1
A32.2 Security Uninterruptable Power Supply No. 1
A32.4 Security Backup Diesel and Associated 480 Volt Distribution
A32.9 Security 125V DC and Uninterruptable Power Supply No. 2
A38.1 Low Pressure Air System
A65.1 Radwaste Building Air Flow System
A65.2 Radwaste Building Chilled Water System
A99.6 Seismographical Monitoring System

IV. The following Acceptance Tests are being added to the Unit 2 test program.

A232.2 South Gatehouse Equipment
This test is being added to the Unit 2 Acceptance Tests because the South Gatehouse was added for Unit 2.

A232.3 South Gatehouse HVAC System
This test is being added to the Unit 2 Acceptance Tests because the South Gatehouse was added for Unit 2.

A232.4 LLRWF Security System
This test is being added to the Unit 2 Acceptance Tests because the LLRWF was completed after the Unit 1 test program and the security system is considered part of Unit 2.

A233.3 Turbine Building Battery Room Exhaust System
This test is being added to the Unit 2 Acceptance Tests because the SPDS was not present at the time of Unit 1 testing.

A239.2 Ultra Sonic Resin Cleaner
This test is being added to the Unit 2 Acceptance Tests because the ultrasonic resin cleaner has been added to Unit 2 and is being added to Unit 1.

A288.2 Non-ESS 250 Volt DC System
This test is being added to Unit 2 since the Non-ESS 250 Volt DC System was installed on Unit 2 to remove the non-ESS loads from the ESS 250 Volt DC system. This system is being added to Unit 1.

A290.1 Safety Parameter Display System
This test is being added to the Unit 2 Acceptance Tests because the SPDS was added to Unit 2 and is being installed on Unit 1.

A290.2 Safety Parameter Display System Power Supply
This test is being added to the Unit 2 Acceptance Tests because the SPDS was added to Unit 2 and is being installed on Unit 1.

A299.3 Communication System
This system was included in Acceptance Test A99.2 for Unit 1. For Unit 2 this system was given its own unique test.

V. The following are the difference between the Susquehanna SES Unit 1 and Unit 2 Startup Tests.

'General In general, those items in the Unit 1 Startup Test Program which did not have acceptance criteria were deleted from the Unit 2 Startup Test Program. The Unit 2 Startup Test Program has incorporated the latest GE Startup Test requirements.

ST-6 SRM Performance and Control Rod Sequence
For Unit 2 this testing has been merged into ST-10, SRM and IRM Performance and Control Rod Sequences.

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ST-10 SRM and IRM Performance and Control Rod Sequences
For Unit 2 this test includes the testing previously contained in ST-6, SRM Performance and Control Rod Sequence.

ST-20 Steam Production Verification
This test has been deleted from the Unit 2 Startup Test Program FSAR test abstracts since the test was run to satisfy our NSSS contract warranties and does not involve any safety testing.

ST-34 Control Rod Sequence Exchange
This test has been deleted from the Unit 2 Startup Test Program.

ST-36 Cooling Water Systems
This test has been deleted from the Unit 2 Startup Test Program.

If you have any additional questions, please contact us.

Very truly yours,

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

cc: R. L. Perch - NRC