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U. S. NUCLEAR REGULATORY COMMISSION
OFFICE OF INSPECTION AND ENFORCEMENT

REGION I

Report No. 50-387/80-02

Docket No. 50-387

License No. CPPR-101 Priority -- Category B

Licensee: Pennsylvania Power and Light Company
2 North Ninth Street
Allentown, Pennsylvania 18101

Facility Name: Susquehanna Steam Electric Station, Unit 1

Inspection At: Salem Township, Pennsylvania

Inspection Conducted: March 4-6, 1980

Inspectors: H. H. Nicholas 3/24/80
H. H. Nicholas, Reactor Inspector date

date

date

Approved by: D. L. Caphton 3/24/80
D. L. Caphton, Chief, Nuclear Support Section No. 1, RO&NS Branch date

Inspection Summary:
Inspection on March 4-6, 1980 (Report No. 50-387/80-02)
Areas Inspected: Routine, unannounced inspection by a region-based inspector of the preoperational test program including management organization and status, construction and test program status, preoperational test program requirements and preparations for test program implementation, test procedure status for test program; tours of the facility; and, follow-up on previous inspection items. The inspection involved 23.0 inspector-hours on site by one NRC region-based inspector.
Results: No items of noncompliance were identified.

Region I Form 12
(Rev. April 1977)

DETAILS

1. Persons Contacted

Pennsylvania Power and Light Company

*Mr. R. Beckley, Acting NQA Resident Engineer
Mr. S. Cantone, Acting Plant Superintendent
*Mr. T. Clymer, Senior NQA Analyst
Mr. S. Denson, Project Construction Manager
Mr. J. Everett, ISG Quality Engineer
*Mr. R. Featenby, Assistant Project Director
*Mr. E. Gorsky, Acting Quality Supervisor
Mr. W. Gulliver, NQA Senior Project Engineer
Mr. B. Kenyon, Assistant Vice President Nuclear
Mr. G. Kuzynski, ISG Coordinator
*Mr. A. Sabol, Nuclear Quality Assurance Manager
*Mr. F. Wurst, Project Engineer NQA Operation

Bechtel Power Corporation

*Mr. E. Figard, Assistant ISG Supervisor
Mr. R. Webster, ISG Supervisor

U. S. Nuclear Regulatory Commission

*Mr. R. Gallo, Senior Resident Reactor Inspector
*Mr. G. Rhoads, Resident Reactor Inspector

The inspector also interviewed other licensee personnel during the course of the inspection.

* denotes those present at the exit interview.

2. Status of Previous Inspection Items

(Open) Inspector Follow-up Item (387/79-24-01): Incorporate freeze protection as a generic procedure in preoperational test program. A procedure is being written and will be followed up on a subsequent inspection. This item will remain open.

(Open) Inspector Follow-up Item (387/79-29-01): Develop a procedure for reactor pressure vessel internals vibration. A procedure is being written and will be reviewed on a subsequent inspection. This item will remain open.

(Open) Inspector Follow-up Item (387/79-31-08): Preventive maintenance during preoperational testing problems. A procedure is being written and will be reviewed on a subsequent inspection. This item will remain open.

(Open) Inspector Follow-up Item (387/79-31-09): No procedure to perform full load test of 4160/480 volt load center transformers. This item is yet to be resolved and a procedure is to be written. This item will be followed up on subsequent inspections. This item will remain open.

3. Preoperational Test Program

The thrust of this inspection was to meet with management and other licensee representatives, and to hold discussions on the following items:

-- Management organization and status;
-- Construction and test program status;
-- Preoperational test program requirements and preparations for test program implementation; and,
-- Test procedure status.

References used for the discussions included the following:

-- Final Safety Analysis Report;
-- Regulatory Guide 1.68, Initial Test Program for Water Cooled Nuclear Power Plants;
-- ANSI N18.1, Selection and Training of Nuclear Power Plant Personnel;
-- ANSI N45.2.6, Qualifications of Inspection Examination and Testing Personnel for the Construction Phase of Nuclear Power Plants;
-- Startup Administrative Manual;
-- Startup Technical Manual;
-- SSES Integrated Project Schedules;
-- SSES Master Milestone Schedule; and,
-- Preoperational and Acceptance Test Matrix.

Discussions were held with the following licensee representatives:

-- Assistant Vice President for Nuclear Power;
-- Acting Superintendent of Plant;
-- Assistant Project Director;
-- Project Construction Manager;
-- Nuclear Quality Assurance Manager;
-- ISG Supervisor;
-- Assistant ISG Supervisor; and,
-- ISG Coordinator.

a. Management Organization and Status

The inspector discussed the licensee's organization plan and the key positions to be filled such as Superintendent of Plant, Assistant Superintendent of Plant, Nuclear Quality Assurance Resident Engineer, and Quality Supervisor.

b. Construction and Test Program Status

The inspector held discussions on the status of construction and test program schedules, including schedule projections, turnovers, testing, milestones, and tentative operating license date.

c. Preoperational Test Program Requirements and Implementation

Discussions were held with the ISG Supervisor and his assistant to reiterate the preoperational test program requirements and to discuss the preoperational test program implementation. Also discussed was testing and test scheduling.

d. Test Procedure Status for Test Program

The inspector discussed the status of all preoperational and acceptance test procedures using the preoperational and acceptance test matrix. Included in the discussions were test procedure reviews and scheduling. The inspector was provided assurance that he would receive procedures in a timely manner to provide for adequate review time prior to the conduct of each test.

The following draft copies of procedures were received for review:

-- P 4.1, Revision 0
4.16 KV System

-- P 16.1, Revision 0
RHR Service Water System

-- P 54.1, Revision 0
Emergency Service Water System

-- A 29.1, Revision 0
Service and Administration Building H&V

-- A 33.1, Revision 0
Turbine Building HVAC System

-- A 33.2, Revision 0
Turbine Building Chilled Water

-- A 44.1, Revision 0
Condensate System

The following approved procedures were received for review:

-- P 51.D, Revision 1, approved February 28, 1980
Non-Ess 480 Volt MCC Auxiliaries

-- A 28.2, Revision 1, approved January 21, 1980
River Intake Structure H&V

-- A 31.1, Revision 1, approved February 28, 1980
Computer Uninterruptible Power Supply

-- A 91.1B, Revision 1, approved February 28, 1980
Radwaste Control Room Annunciators

Findings:

In all of the above discussions, the inspector expressed his concerns in each of the areas covered. No discrepancies were identified and the inspector had no further questions at this time.

These areas of concern will be followed up on subsequent inspections.

4. Plant Tours

The inspector made several tours of the facility during the course of the inspection including the reactor building, turbine building, control structure and the control room.

The inspector observed work in progress, housekeeping, cleanliness controls, storage and protection of components, piping and systems.

During observations and inspection of the control room, the inspector noted that procedures were being used by the operating personnel entitled, "temporary operating procedures". They were being used in order to support requests being made by the Integrated Startup Group (ISG). Most of the temporary operating procedures were hand written or printed, and not approved in any manner. Most of these procedures did not have a signature.

Even though the majority of the systems and components were not safety-related, the inspector expressed concern that there should be some sort of approval either from ISG prior to turnover to operations, or from operations after turnover from the ISG. The result would be the development of a "temporary operating procedure" that would be adequate during the interim period of turnover from the startup group to operations.

The licensee's representative agreed and stated that they will resolve this item. The inspector will follow-up on this item during the next inspection. This item is unresolved and is designated (UNR) (387/80-02-01).

5. Unresolved Items

Unresolved items are matters about which more information is required in order to ascertain whether they are acceptable items, items of noncompliance or deviations. The unresolved item identified during the inspection is discussed in paragraph 4.

6. Exit Interview

At the conclusion of the site inspection, on March 6, 1980, an exit meeting was conducted with the licensee's senior site representatives (denoted in paragraph 1). The findings were identified and previous inspection items were discussed.