

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

IE Inspection Report No: 50-286/75-12

Docket No: 50-286

Licensee: Consolidated Edison Company of New York, Inc.

License No: CPPR-62

4 Irving Place

Priority: _____

New York, New York

Category: B1

Location: Indian Point 3, Buchanan, New York

Safeguards Group: _____

Type of Licensee: PWR, 965 MWe (Westinghouse)

Type of Inspection: Routine, Announced

Dates of Inspection: May 5-8, 21-23, 1975

Dates of Previous Inspection: May 2-7, 1975

Reporting Inspector: T. Rebelowski
T. Rebelowski, Reactor Inspector

June 11, 1975
Date

Accompanying Inspectors: _____

Date

Date

Date

Date

Other Accompanying Personnel: _____

Date

Reviewed By: E. C. McCabe
E. C. McCabe, Senior Reactor Inspector
Nuclear Support Section
Reactor Operations Branch

6-11-75
Date

SUMMARY OF FINDINGS

Enforcement Action

A. Items of Noncompliance

None

Licensee Action on Previously Identified Enforcement Items

Not Inspected

Unusual Occurrences

Not Inspected

Design Changes

Not Inspected

Other Significant Findings

A. Current Findings

1. Acceptable Items

The following areas were inspected on a sampling basis and findings did not involve an Item of Noncompliance, Deviation or an unresolved item.

a. Preoperation Test Program Status

The inspector examined the status of licensee's preoperational test procedure preparation and testing. (Detail 2a)

b. Inspectors Evaluation of Licensee Completed Test Results Review

The licensee has evaluated the results of approximately 35% of preoperation tests required for initial core loading. (Detail 2b)

c. Core Loading Prerequisite Checklist

The inspector reviewed Core Loading Prerequisite checklist status. (Detail 4)

B. Status of Previously Unresolved Items

1. The following items were reviewed and are resolved.
 - a. Pillow Blocks. (Detail 3b)
 - b. Containment Liner. (Detail 3a)

Management Interview

A management interview was conducted with Mr. Kohler and members of construction and operations staff on May 23, 1975 at the conclusion of the inspection.

Persons Present

Mr. W. Josiger, Test Engineer
Mr. A. Kohler, Jr., Resident Construction Manager
Mr. V. Perry, Superintendent of Field Operations
Mr. S. Zulla, Action Operations Engineer.

Items Discussed

- A. Preoperational Test Program (Detail 2)
- B. Core Loading Prerequisite List (Detail 4)
- C. Previously Unresolved Items (Detail 3a & 3b)

DETAILS

1. Persons Contacted

Consolidated Edison Company of New York, Inc.

Mr. H. Cairns, Supervisor, Construction Inspector
Mr. S. Cantone, Chief Operations Engineer
Mr. A. Cheifetz, Director, Radiation Safety
Mr. W. Josiger, Test Engineer
Mr. A. Kohler, Resident Construction Manager
Mr. J. Makepeace, Director Technical Operations
Mr. V. Perry, Jr., Superintendent, Field Operations
Mr. W. Stein, Manager, Nuclear Power Generation Department
Mr. S. Zulla, Acting Operations Engineer.

2. Preoperation Test Program

a. Preoperational Test Procedure Preparation

Reference: Inspection Report IE:I 50-286/75-08, Detail 3

The licensee has prepared and approved his complete index of preoperational tests. The inspector verified that the approved preoperational test procedures exist and that test objectives are consistent with test titles. The licensee has developed his procedures in accordance with INT-ADMIN 1.0, Administrative Guidelines for the Test Program. Prior to procedure approval the draft procedures were reviewed by the licensee and comments resolved prior to JTG approval per paragraph 2.0 of INT-ADMIN 1.0.

<u>Title</u>	<u>Procedure No (INT-TP)</u>	<u>Date JTG Approval</u>
Post Accident Containment Atmosphere Sampling System Test	4.13.7	4-19-75
Reactor Plant Systems Setpoint Verification	4.8.2	4-24-75
Turbine Hall Closed Cooling Water System	4.12.4	2-20-75
Chemical Feed System	4.12.5	10-23-74
Extraction Steam Functional Test	4.12.16	2-20-75
Main Generator Hydrogen Storage Cabinet Checkout	4.12.24	2-28-75
Heat Balance-Main and ReHeat Steam	4.12.15	4-19-75
Instrument Air Functional Test	4.12.2	1-22-74
Station Air System Flush, Leaks & Functional Test	4.12.3	8-15-74
Flash Evaporator Functional Test	4.11.4	8-12-74
Waste Gas Processing	4.6.3	1-18-75

<u>Title</u>	<u>Procedure No (INT-TP)</u>	<u>Date JTG Approval</u>
Movable In-Core Detectors	4.7.3	4-19-75
Fixed In-Core Neutron Detectors	4.7.4	4-17-75
Fixed In-Core Detector Calibration	4.7.5	4-17-75
Turbine Plant Flushing Condensate, Feed Water and Main Steam	2.1	12-5-73
Air and Motor Operated Valves Operational Test	4.10.1	3-18-75
Heating, Ventilation and Cooling System	4.11.1	1-8-75
Gross Failed Fuel Detector System	4.10.3	4-16-75
Fuel Handling Facility Checkout	4.11.3	2-28-75
Fire Protection System Functional Test	4.11.6	1-19-75
RC Flow Determination	4.1.6	1-8-75
Boric Acid Tanks and Pump	4.2.6	2-7-75
Waste Disposal System Liquid, Receipt and Storage	4.6.1	2-3-75
Rod Timing Checks	4.9.5	3-24-75
Rod Drive Mechanism Checks	4.9.3	3-24-75
Chlorination System Functional Condensate System	4.12.26	5-8-74
Hydrogen Seal Oil System	4.12.19	2-14-75
Lube Oil Purification and Trans System	4.12.13	4-4-75
Lubricating Oil System	4.12.10	8-15-74
Heater Drains System	4.12.9	9-19-74
Demineralization Fill	4.12.6	10-23-74
Boron Recycle System	4.2.5	11-21-74
Reactor Protection HC Checks	4.2.4	3-5-75
Time Response Checks	4.8.1	2-7-75
	4.8.3	4-17-75

The inspector questioned the time span of operability checks of system valves, heater settings, gross fuel failure indication in the control room, the capabilities of chemical feed pumps (discharge pressure), venting in area of Hydrogen cabinet station and alarm circuitry in the fire protection system.

The licensee's responses to these questions resulted in the inspector having no further questions on the existence of approved preoperational test procedures.

b. Licensee Evaluation of Preoperation Procedure Test Results

The inspector reviewed the licensee's evaluation of test results for the following procedures.

- INT-TP 1.42 Auxiliary Boiler Feed Pump (Turbine Drives) Run-In
- 4.1.2 Reactor Coolant System Heatup
- 4.5.1 Safety Injection System (8 Switch sequencing)
- 4.5.4 High Head Recirculation Path
- 4.5.9 Containment Spray and Filter Dousing
- 4.8.1 Reactor Protection HC
- 4.11.9 Vapor Containment & S.I.T.
- 4.11.1 Service Water Functional Test-Addem 1
- 4.12.17 Steam Generator Blowdown
- 4.13.4 Static Inverters
- 4.13.4 Add. 1. Static Inverters

(1) The parameters reviewed by the inspector included the following:

(a) Adherence to Administrative Guidelines

Licensee's method and adherence to the Administrative Guidelines to the Test Program, INT-ADMIN 1.0 in the areas of test procedure approval under paragraph 3.0, titled "Test Procedure Revisions" and that the test changes did not modify or vary the FSAR commitments.

The inspector's findings in this area included a review of the test procedures with their appropriate test changes. All changes reviewed were properly documented with appropriate approval signatures by the licensee.

The inspector noted that the procedures concerning Steam Generator Blowdown, INT-TP 4.12.17, and Reactor Coolant System Heatup INT-TP 4.1.2 were partially deleted. A review of the method of testing indicated that duplication of testing or sequencing required the deletions. Additional test procedural steps were found in various other test procedures to insure completion of testing.

(b) Test Deficiencies

The licensee's review of test deficiencies noted the documentation of two deficient tests, the Service Water Functional Test and the Static Inverter's Test. Deficiencies were resolved and retests were performed.

(c) Licensee Evaluation of Testing to Meet Design Requirements

The inspector noted licensee review of design commitments as pertaining to procedural test changes. This area was reviewed by off-site licensee personnel during their review of test results. No areas of concern were noted. The inspector had no further questions on this item.

(d) Test Package Completion

Licensee review of readiness for testing and the documentation of interrupted tests were noted by inspector. The licensee's method included appointment of a shift test supervisor to coordinate testing, establishment of plant condition, review of the readiness for testing packages and the overall test sequence. The licensee review of the A/E's punch list and status of completion were reviewed for listed procedures per Administrative Guidelines for Testing, INT ADMIN 1.0, Readiness for Testing Notice by the inspector. The inspector noted no areas of concern.

(e) Approval of Test Results

The licensee's test results were reviewed by the A/E and offsite engineering staff and on site JTG. The licensee's review indicated that the tests did meet the design requirements.

(f) Quality Assurance

The inspector reviewed the licensee's Quality Assurance activities noted in QA Audit 375-ASU, which addressed in part the monitoring of portions of the preoperational test program including the Containment Integrated Leak Rate and Structural Integrity Tests. No areas of concern were identified by inspector.

3. a. Bulged Reactor Containment Liner

Reference: IE:I Inspection Report 50-286/74-22 Details 3.

The inspector reviewed the licensee's report on the Containment Vessel Structural Integrity Test in which the results discussed the tests performed to insure that the liner is backed by concrete.

Three invar wire gages were attached to the liner in the vicinity of the questioned area. Additional invar wires reading of radials 20' away were compared with bulged areas during pressurization to test pressures. Acceptable gaps credited to concrete shrinkage were documented. This item is resolved.

b. Personnel Air Lock Modifications

Reference: IE:I Inspection Report 50-286/75-05 MI-I

The licensee has completed the pillow block bearing modification intended to assure proper functioning of the mechanical interlock. The inspector reviewed the approved procedure, welding instructions, welder qualification, inspection of completion by QA, and viewed the completed pillow blocks. This item is resolved.

4. Core Loading Prerequisite Check List

The licensee prerequisite list for Core Loading was reviewed by the inspector.

Thirty-Eight items constitute major milestones to be completed prior to core loading. At the time of completion of this inspection the licensee identified thirteen items of completion. Further review of the prerequisite list will be performed by the inspector at a subsequent inspection prior to core loading.