

U. S. ATOMIC ENERGY COMMISSION
DIRECTORATE OF REGULATORY OPERATIONS
REGION I

RO Inspection Report No.: 50-286/73-13

Docket No.: 50-286

Licensee: Consolidated Edison Company

License No.: CPPR-62

4 Irving Place

Priority: _____

New York, New York

Category: B

Location: Indian Point 3, Buchanan, New York

Type of Licensee: PWR 1050 MWe (Westinghouse)

Type of Inspection: Routine, Announced

Dates of Inspection: November 19-21, 1973

Dates of Previous Inspection: November 12-15, 1973

Reporting Inspector: R. H. Brickley
R. H. Brickley, Reactor Inspector

12/5/73
DATE

DATE

Accompanying Inspectors: T. Rebelowski
T. Rebelowski, Reactor Inspector

12/5/73
DATE

DATE

Other Accompanying Personnel: None

DATE

Reviewed By: E. J. Brunner
E. J. Brunner, Chief, Reactor Operations Branch

12/11/73
DATE

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SUMMARY OF FINDINGS

Enforcement Action

A. Violation

None

B. Safety

None

Licensee Action on Previously Identified Enforcement Items

A. Not Inspected

Design Changes

Not Inspected

Unusual Occurrences

Not Inspected

Other Significant Findings

a. Current

1. Preoperational Test Program

a. Phase I Tests

The Phase I tests are defined as construction tests, i.e., flushes and hydros. that are detailed in 78 test procedures. All of the procedures have been written and 3% of the tests have been completed.

b. Phase II Tests

The Phase II tests are functional tests, involving individual system or subsystem operation at or near normal operating conditions, that are detailed in 97 test procedures. Thirty-six percent of the procedures have been written and none of the tests have been started.

c. Phase III Tests

The Phase III tests are integrated plant tests involving multiple system operation to verify overall plant operation. The licensee is in the process of establishing a detailed list of the procedures to be issued. They plan to utilize Unit 2 procedures revised to incorporate Unit 3 requirements.

B. Status of Previously Reported Unresolved Items

Several of the previously reported unresolved items on preoperational procedures have been resolved.

Management Interview

A management interview was conducted on November 21, 1973 at the conclusion of the inspection. The personnel in attendance and the items discussed were as follows:

Consolidated Edison

- A. Kohler, Jr., Resident Construction Manager
- S. Cantone, Operations Engineer - Unit 3
- V. Perry, Superintendent of Field Operations
- D. Whittier, Test Engineer - Unit 3

WEDCO

R. Barclay, Operations Manager

- A. Inspection findings relative to the status of the Phase I, II, and III test procedures and test program. (Paragraph 2)
- B. Inspection findings relative to the administrative controls for the startup test program were discussed. (Paragraph 3)
- C. Inspection findings relative to the review of the Daily Test Log were discussed. (Paragraph 4)
- D. Inspection findings relative to the review of tests recently completed and accepted by the Joint Test Group (JTG). (Paragraph 5)
- E. Inspection findings relative to the status of previously reported pre-operational procedure deficiencies. (Paragraph 6)
- F. The preoperational testing of the Emergency Core Cooling System with regards to the latest DL guidelines was discussed. (Paragraph 7)

DETAILS

1. Persons Contacted

Consolidated Edison

S. Salay, Chief Operations Engineer - Units 1, 2, and 3
S. Cantone, Operations Engineer - Unit 3
D. Whittier, Test Engineer - Unit 3
V. Perry, Superintendent of Field Operations

2. Preoperational Test Program

a. Status of Test Procedures

Phase:	I	II	III
Total Number Planned:	78	97	(*)
Approved for Performance:	55%	6%	0%
Under Review by Joint Test Group (JTG):	45%	30%	0%
Remaining to be Written:	0%	64%	100%

(*) The status of the Phase III test procedures was unknown to the licensee's representative since these procedures were to be supplied by WEDCO.

The inspector expressed concern over the following items:

- (1) The licensee's lack of knowledge of the number of Phase III procedures planned and the status of the preparation of these procedures.
- (2) That Phase II and III procedures would not be prepared, reviewed, and approved in a timely manner.

The inspector requested that the licensee provide the following items to facilitate his inspection program:

- (1) A complete listing of all the Phase III test procedures planned and their current status.
- (2) Copies of all Phase I, II, and III test procedures and their revisions.

The licensee and WEDCO management committed to forwarding the requested items to the inspector as soon as they become available. The licensee management informed the inspector that most of their

Phase III procedures would be Unit 2 procedures revised to incorporate Unit 3 requirements and therefore felt that they would be available in a timely manner.

b. Status of Testing

Phase:	I	II	III
Total Number Planned:	78	97	(*)
Completed and Accepted:	3%	0	0
Completed and Undergoing Review:	1%	0	0
In Progress:	0%	0	0
Not Started:	96%	100%	100%

(*) See Paragraph 2.a.

3. Administrative Guidelines for the Test Program

The inspector discussed his review of the following documents and obtained a resolution on all items identified:

Administrative Directive No. 3AD-8, Rev. 2 - Administrative Guidelines for Conduct of Startup Testing
Int Admin 1.0, Rev. 2 - Administrative Guidelines for the Test Program
Addendum 1.0, Rev. 2 to Int Admin 1.0

4. Test Log

The inspector reviewed the test log for the period December 14, 1971 through November 16, 1973 and found the following deficiencies:

- a. The log entries were not signed on October 19, 1973, November 8, and 12 through 15, 1973.
- b. The test that was in progress on November 8, 1973 was not identified by test procedure.

The licensee's representative stated that the Test Supervisors will be redirected to conform to the requirements for the "Daily Test Log" as detailed in Administrative Directive No. 3AD-8.

5. Review of Completed Tests

The inspector reviewed the completed and accepted test package for TP-3.0, Addendum 76 - RWST Piping Hydro SIS System and is satisfied with the documentation of performance and results of this test.

6. Previously Reported Preoperational Test Procedure Deficiencies

The inspector reviewed the licensee's action on subject item and has no further questions on the following at this time:

a. T.P.-1.0 - General Flushing Procedure

- (1) The documentation that assures system readiness prior to flushing will be Readiness For Test Form RFT-1. This form was completed prior to performing TP-3.0.*
- (2) The licensee will issue a special procedure to cover special chemical cleaning and treatment.**
- (3) The licensee committed to specify a strainer ΔP for closed system flushes on future procedures. They implemented this commitment in TP-4.12.25 - Instrument Air Closed Cooling Water System issued on November 13, 1973.***
- (4) The licensee has issued Addendum 1, Revision 2 of Admin. 1.0 which specifies cleanliness requirement controls to assure the maintenance of a clean system.****

b. T.P.-3.0 - General Strength and Tightness Test Procedure

The information on vacuum testing in T.P.-3.0 has been deleted. The licensee will issue a separate procedure for each vacuum test required.*****

c. T.P.-1.40 - Diesel Generator Run-In and T.P.-4.13.1 - Diesel Generator Functional Test

The licensee is in the process of combining these procedures into one new procedure. The new procedure will be reviewed by RO:I.*****

d. T.P.-1.41 - Auxiliary Boiler Feed Pump (Electrical)

- (1) The licensee has committed to include revision numbers to drawings referenced in the test procedure and to update these numbers prior to performance of the test.*****

* RO Inspection Report No. 50-286/73-07 Paragraph 2a
** RO Inspection Report No. 50-286/73-07 Paragraph 2b(1)
*** RO Inspection Report No. 50-286/73-07 Paragraph 2b(2)
**** RO Inspection Report No. 50-286/73-07 Paragraph 2c
***** RO Inspection Report No. 50-286/73-07 Paragraph 4c
***** RO Inspection Report No. 50-286/73-07 Paragraphs 6 & 7
***** RO Inspection Report No. 50-286/73-07 Paragraph 8a

- (2) The Readiness For Test Form RFT-1 will specify the equipment that is required to be installed in accordance with plans and specifications prior to testing.*
- (3) Admin. - 1.0 - Administrative Guidelines for the test program specifies that satisfactory performance of each procedure step, including initial conditions, prerequisites, and performance steps will be documented by date and initials of WEDCO and Con Edison representatives in the procedure margin (Sec 5.1.2).**
- (4) The licensee will issue a special procedure to cover special chemical cleaning and treatment.***
- (5) The licensee has provided means for the recording of data for each auxiliary feed pump run and properly identify unit being tested.****

7. Preoperational Testing of the ECCS

The inspector discussed the latest DL guidelines on the scope of preoperational testing of the ECCS and requested their comments on this program. The licensee's representative stated that they would review their present program in light of the new guidelines and present their comments at the next inspection.

* RO Inspection Report No. 50-286/73-07 Paragraph 8b
** RO Inspection Report No. 50-286/73-07 Paragraph 8c
*** RO Inspection Report No. 50-286/73-07 Paragraph 8d
**** RO Inspection Report No. 50-286/73-07 Paragraph 8e

MEMO ROUTE SLIP Form AEC-93 (Rev. May 14, 1947) AECM 0240		See me about this.	For concurrence.	For action.
		Note and return.	For signature.	For Information.
TO (Name and unit) RO Chief, FS&EB RO:HQ (5) RO Files Central Mail & Files Regulatory Standards	INITIALS	REMARKS CONSOLIDATED EDISON COMPANY #50-286/73-13 INSPECTION RPT. IP-3		
	DATE ✓ (3)			
TO (Name and unit) Directorate of Licensing (13) OGC Regional Directors (RO II, III, IV)	INITIALS	REMARKS The above inspection report is forwarded for information. Distribution will be made by this office to the PDR, Local PDR, NSIC,		
	DATE			
TO (Name and unit)	INITIALS	REMARKS DTIE, and State Representatives after review by the licensee for proprietary information.		
	DATE			
FROM (Name and unit) <i>E. J. Brunner</i> E. J. Brunner Region I	REMARKS			
PHONE NO. 8-337-1246	DATE 12/17/73			

USE OTHER SIDE FOR ADDITIONAL REMARKS

GPO : 1971 O - 445-453

R16-C