U.S. NUCLEAR REGULATORY COMMISSION

REGION I

Report No. 50-286/82-21

Docket No. 50-286

License No. DPR-64 Priority -- Category C

Licensee: Power Authority of the State of New York
10 Columbus Circle
New York, New York 10019

Facility Name: Indian Point Nuclear Generating Station, Unit 3

Inspection at: Buchanan, New York

Inspection Conducted: November 16, 1982 to December 15, 1982

Inspector:

for H B Kister 12/21/82
T. J. Kenny, Senior Resident Inspector date

Approved by:

H B Kister 12/21/82
H. Kister, Chief, Reactor Project Section date
IC, DPRP

Inspection Summary:
Inspections on November 16, 1982 to December 15, 1982 (Inspection Report 50-286/82-21)
Areas Inspected: Routine onsite regular and backshift inspections of plant operations including shift logs and records; plant tour; surveillance; maintenance; current status of steam generator related repairs; and review of monthly operating report. The inspection involved 82 inspector hours by the resident inspector.

Results: Of the five areas inspected, no violations were identified.

DETAILS

1. Persons Contacted

M. Albright, Instrument and Control Superintendent
J. Brons, Resident Manager
J. Dube, Security and Safety Supervisor
D. Halama, Q. A. Superintendent
W. Josiger, Superintendent of Power
J. Perrotta, Radiological and Environmental Services Superintendent
S. Munoz, Technical Services Supervisor
E. Tagliamonti, Operations Superintendent
J. Vignola, Maintenance Superintendent

The inspector also interviewed and observed other licensee employees including members of the operations, health physics, technical services, maintenance, and security staffs.

2. Licensee Actions on Previous Inspection Findings

(Closed) Violation (50-286/81-13-01) Failure to have the proper valve lineup of the containment penetration and weld channel pressurization system prior to exceeding 200°F. The inspector has reviewed changes to procedure COL-RCP-1 which insures the portions of the system that cannot be observed in the control room be physically observed prior to exceeding 200°F. The inspector considers this item closed.

3. Plant Tour

A. Normal and backshift inspections were conducted during routine entries into the protected area of the plant, including the control room, PAB, fuel building, and containment. During the inspection activities, discussions were held with operators, technicians (HP & I&C), mechanics, foremen, supervisors, and plant management. The purpose of the inspection was to affirm the licensee's commitments and compliance with 10 CFR, Technical Specifications, and Administrative Procedures. Particular attention was directed in the following areas:

- Instrumentation and recorder traces for abnormalities;
- Proper control room and shift manning;
- Proper use of procedures;
- Review of logs to obtain plant conditions;
- Verification of proper radiologically controlled areas and access points;

- Verification of surveillance testing for timely completion;

- Verification of safety related tagouts;

- Plant housekeeping and cleanliness;

- That protected area access controls were in conformance with the security plan, including sufficient guards to perform duties, and that selected gates and doors were closed and locked;

- Selected liquid and gaseous samples to verify conformance with regulatory requirements prior to release; and,

- Boric acid samples to confirm proper boric acid level for plant shutdown conditions.

B. During the inspection, the inspector reviewed the following procedures, documents, or evolutions:

- Radioactive Waste Release Permit (liquid & gaseous)
- Various shift turnover checklists
- Security Station Logs and Radio Checks
- Jumper Log
- Selected Operators' Logs
- Selected Tagouts
- Selected Radiation Exposure Authorization (REA's)

No violations were identified.

4. Surveillance

A. The inspector either directly observed the performance of or reviewed completed surveillance procedures to ascertain the following:

- That the instrumentation used was properly calibrated;

- That the redundant system or component was operable where required;

- That properly approved procedures were used by qualified personnel;

- That the acceptance criteria were met;

- That the test data were accurate and complete;

- That proper reviews, by the licensee, had been conducted;

- That the results of the tests met Technical Specification requirements; and,

- That the testing was done within the required surveillance schedule.

The inspector reviewed the following tests:

- 3PT-W7 Carbon Dioxide System Inspection
- 3PT-M27 Station Air System
- 3PT-M42 Main Fire Pump Operability Test
- 3PT-Q12 Rod Insertion Limit Computer Functional Test
- 3PT-Q13 Iodine Monitor
- 3PT-Q27 Containment Isolation Valves ISI Test

No violations were identified.

5. Maintenance

The inspector selected completed maintenance activities listed below to ascertain the following:

- The activities did not violate a limiting condition for operation;

- That redundant components were operable;

- That equipment was tagged out in accordance with licensee approved procedures;

- That approved procedures, adequate to control the activity, were being used by qualified technicians;

- That Q/C hold points were observed, and that materials were properly certified;

- That radiological controls were proper and in accordance with licensee approved radiation exposure authorizations; and,

- That the equipment was properly tested prior to return to service.

1) Replacement of #32 Boric Acid Tank Pump with New Rebuilt Boric Acid Tank Pump.

Documents Reviewed:

- Work Request 3196
- Maintenance Procedure 3-CM-GEN-16, "Change out and repair of Gould Model 3196 Pumps"
- Work Permit 6719
- REA 2201

- QA Acceptance 0956, Selected Repair Parts & Certifications

2) Repair Leak in #32 FCU Flex Hose

Documents Reviewed:

- Work Request 3240
- Work Step List
- Certification for New Hose
- Torque Wrench Certification for Wrench M 320

3) Rebuild Spare Service Water Pump

Documents Reviewed:

- Work Request 2648
- Maintenance Procedure 3-CM-SW-2, Service Water Pumps Overhaul
- QA Acceptance 0029
- Micrometer Calibration for Instruments M 222 and M 238
- Certification for Selected Parts Used

No violations were identified.

6. Current Status of Steam Generator Related Repairs

A. Sleeving of the Cold Legs

Currently, the sleeving of Number 33 steam generator is in progress with the hands-on sleeving completed, and the automatic sleeving equipment installed to commence auto sleeve insertion. To date, 330 tubes have been installed out of 865. The following table gives the status of #31, #32, and #33 steam generators.

	31	32	33
Tubes to be sleeved	825	672	865
Sleeves completed	770	652	270*
Tubes to be sleeved after reaming	13	19	1

*330 tubes have been installed, but 270 have been rolled into place for acceptance.

A reaming procedure has been qualified by the vendor W and is scheduled to begin in the near future. The reaming will open up a partially restricted tube to receive the sleeve.

Sleeves are inserted into a tube after the tube has been honed; then the sleeves are expanded hydraulically, top and bottom, followed by a hand-rolling procedure top and bottom. The final acceptance is an eddy current test to verify the expansion and rolling have been performed properly.

Currently the sleeving program has expended a total of 509 man rem which is below the estimated exposure predictions.

B. Girth Weld Repair

The steam generators are divided internally around the girth weld into one foot segments. There are 44 segments in each steam generator. The weld repair then begins in the following manner:

The inside surface is prepared to perform a dye penetrant test (PT). The PT is performed recording the indications or cracks which are mapped by segments. The maps are then used to aid the worker in grinding out the indication. Acceptance of the ground excavation is accomplished by another PT. When the Quality Assurance Department accepts the PT results, the excavation is welded using a qualified welding procedure. After welding, the area is again prepared by grinding. A PT for acceptance is performed followed by an x-ray (RT) to confirm the results. To date #34 steam generator is 98% complete. Work has started in #31 steam generator.

The current plan is to complete all weld repair, then perform a panoramic x-ray of the entire girth weld. After all steam generator repairs are completed, the steam generators will be heat treated to the ASME code. Then a second panoramic x-ray will be performed. An ultrasonic test will then be performed for a base line which will be used for future inspections.

All weld repairs are being accomplished in accordance with the ASME code. ASME code inspectors are inspecting the repair procedures for compliance.

To date 66 man rem have been expended which is below the estimated exposure predictions.

No violations were identified.

7. Review of Monthly Report

A. Monthly Operating Report

The Monthly Operating Report for October, 1982 was reviewed. The review included an examination of selected maintenance work requests, and an examination of significant occurrence reports to ascertain that the summary of operating experience was properly documented.

B. Findings:

The inspector verified through record reviews and observations of maintenance in progress that:

- The corrective action was adequate for resolution of the identified items; and,

- The operating report included the requirements of TS 6.9.1.6.

The inspector has no further questions relating to the report.

8. Exit Interview

At periodic intervals during the course of the inspection, meetings were held with senior facility management to discuss the inspection scope and findings. An additional exit interview was held on December 10, 1982 to summarize inspection findings, and to discuss plant status and current inspection findings.