

U.S. NUCLEAR REGULATORY COMMISSION  
REGION I

Report No. 50-286/83-02

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: January 16, 1983 to February 15, 1983

Inspector:

T. J. Kenny  
T. J. Kenny, Senior Resident Inspector

2/24/83  
date

Approved by:

H. B. Kister  
H. B. Kister, Chief, Reactor Project Section IC,  
DPRP

2/28/83  
date

Inspection Summary:

Inspections on January 16, 1983 to February 15, 1983 (Inspection Report 50-286/83-02)

Areas Inspected: Routine onsite regular and backshift inspections of plant operations including shift logs and records; plant tour; surveillance; maintenance; review of monthly operating report; QA/QC Administration Program; followup on IE circulars; followup on IE bulletins, and update on steam generator repairs. The inspection involved 75 inspector hours by the resident inspector.

Results: Of the eight 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) Inspector Follow Item (50-286/80-21-04) Channel II Annunciator for Steam Dump Valve No. 2 requires post-maintenance operability test. The inspector reviewed Maintenance Request 930 and 3PT-M24, "Low Pressure Steam Dump Functional Test," and verified that maintenance and retesting of Steam Dump Valve No. 2 had been performed satisfactorily.

### 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-M21 Station Batteries
- 3PT-M27 Station Air
- 3PT-Q07 Diesel Generator Overspeed
- 3PT-Q21 Steam Generator Blowdown Valves

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 defective limit switch on accumulator fill valve 891D

Documents Reviewed:

- Work Request 3180
- Maintenance Check List
- Replacement switch certification papers

- 2) Replacement of carbon vanes and belts on containment sampling pump for radiation monitor R-11/R-12.

Documents Reviewed:

- Work Request 3282
- Maintenance Check List
- Certification papers for belts and vanes

- 3) Rebuilding of Spent Fuel Pit Cooling Pump #32.

Documents Reviewed:

- Work Request 3354
- Maintenance Procedure 3-CM-ACS-2, "Spent Fuel Pit Cooling Pump Repair"
- Work Permit 2695
- Radiation Exposure Authorization 2356
- Certification papers for selected replacement parts

No violations were identified.

6. Review of Monthly Report

A. Monthly Operating Report

The Monthly Operating Report for December, 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.

## 7. QA/QC Administration Program

### A. Documents Reviewed:

- FSAR (Revision 1972) Chapter 17
- Power Authority State of New York Quality Assurance Program Manual
- Power Authority State of New York Quality Assurance Procedures Manual
- ANSI N18.7 (1976)
- Regulatory Guide 1.120, "Fire Protection Guidelines for Nuclear Power Plants"
- Appendix B to 10 CFR 50
- Administrative Procedure 16, QA Program

### B. Inspector Findings:

1. The inspector reviewed the above documents and verified that the licensee's Administration Program is consistent with Appendix B to 10 CFR 50, ANSI N18.7 (1976), and the FSAR. In his review, the inspector verified that:
  - The licensee's documents clearly define those structures, systems, components, documents and activities to which the QA Program applies;
  - Procedures and responsibilities have been established for making changes to documents relating to the station and public safety;
  - Administrative controls have been established to perform inspection and audit activities; and,
  - Assurance has been provided for overall review of the effectiveness of the QA Program.
2. The inspector also reviewed the following to assure that the QA Program is being implemented in accordance with the licensee's Program Manual:
  - Selected audits of vendor-supplied services related to the training and materials provided to perform the sleeving of the cold legs of the four installed steam generators;
  - Selected audits of the Operations and Performance and Reliability Departments conducted by the QA organization in 1982;

- Training Files for three on-site QA personnel including: resumes, education, experience, eye examinations, qualifications, tests administered, certifications, awards, and training received; and,
- An audit conducted by an outside agency (Joint Utility Management), which was made up of three auditors from other utilities. This audit was conducted August 30 through September 3, 1982. No major findings were identified as a result of this audit.

No violations were identified.

#### 8. Followup on IE Circulars

The inspector reviewed Plant Operating Review Committee (PORC) minutes, and the licensee's circular file, and verified that:

- The licensee is receiving IE circulars;
- The licensee is adequately reviewing the IE circulars to determine applicability to their facility; and,
- The licensee is taking appropriate action or has placed the action on the PORC follow list for future corrective action.

The inspector also verified that where actions were taken, the action was appropriate to the circular. The inspector concludes that the licensee has an adequate method for review of IE circulars.

Based on the above review, the following IE circulars are considered closed:

- (Closed) 77-CI-14 "Separation of Contaminated Water Systems from the Noncontaminated Plant."
- (Closed) 78-CI-08 "Environmental Qualifications of Safety-related Electrical Equipment at Nuclear Power Plants."
- (Closed) 79-CI-05 "Moisture Leakage in Stranded Wire Conductors."
- (Closed) 79-CI-10 "Prevention of Unplanned Releases of Radioactive Material from Power Operated Relief Valves."
- (Closed) 79-CI-21 "Stroke Times for Power Operated Relief Valves."
- (Closed) 79-CI-22 "Protection from Toxic Gases."
- (Closed) 80-CI-03 "Protection from Toxic Gases."

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(Closed) 79-CI-05 "Moisture Leakage in Stranded Wire Conductors."

(Closed) 79-CI-10 "Pipefittings Manufactured from Unacceptable Material."

(Closed) 79-CI-21 "Prevention of Unplanned Releases of Radioactivity."

(Closed) 79-CI-22 "Stroke Times for Power Operated Relief Valves."

(Closed) 80-CI-03 "Protection from Toxic Gases."



(Closed) 80-CI-10 "Failure to Maintain Environmental Qualification of Equipment."

(Closed) 80-CI-14 "Radioactive Contamination of Plant Demineralized Water System and Resultant Internal Contamination of Personnel."

(Closed) 80-CI-15 "Loss of Reactor Coolant Pump Cooling and Natural Circulation Cooldown."

(Closed) 80-CI-17 "Fuel Pin Damage due to Water Jet from Baffle Plate Corner."

(Closed) 81-CI-02 "Performance of NRC Licensed Individuals While on Duty."

(Closed) 81-CI-05 "Self-Aligning Rod End Bushings for Pipe Supports."

(Closed) 81-CI-08 "Foundations Materials."

(Closed) 81-CI-09 "Containment Effluent Water that Bypasses Radioactivity Monitor."

No violations were identified.

#### 9. Followup on IE Bulletins

The inspector reviewed licensee actions regarding Bulletin 82-04, and determined that the licensee responded in writing within the required time period, and that the bulletin had received adequate review by licensee management. Since this bulletin did not apply to the type of connections used by the licensee, no further action is required.

(Closed) Bulletin (50-286/BU-82-04)

No violations were identified.

#### 10. Update on Steam Generator Repairs

The sleeving program has been completed, including eddy current testing. There was a total of 2971 sleeves installed, with a breakdown per generator as follows:

#31	#32	#33	#34
769	651	850	701

The licensee plans to hydrostatic test the sleeved areas after the girth welds have been completed.

The steam generator girth weld repair program is continuing. No. 34 steam generator repairs have been completed, and the generator is being prepared for post weld heat treatment. Weld repairs are continuing in the remaining steam generators. The hole area in #32 steam generator has been prepared, by machining, to install a plug, which has been acquired to repair this area of the steam generator.

Preparations are being made to conduct an annulus inspection on top of the tube sheet. The licensee has acquired a full size mock-up of that area of the steam generator, along with the necessary TV and monitoring equipment to conduct these inspections. The licensee intends to begin inspecting after the sludge lancing operation.

No violations were identified.

#### 11. 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.