DCS No. 50286/840719

U.S. NUCLEAR REGULATORY COMMISSION

REGION I

Report No. 50-286/84-18

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: August 1, 1984 to September 15, 1984

Inspectors:

for T. J. Kenny, Senior Resident Inspector — 9/12/84 date

L. W. Rossbach, Resident Inspector — 9/12/84 date

Approved by:

Leif Norrholm, Chief, Reactor Project Section 2B, DPRP — 9/19/84 date

Inspection Summary:

Inspection on August 1, 1984 to September 15, 1984 (Inspection Report 50-286/84-18)

Areas Inspected: Routine onsite regular and backshift inspection of plant operations including shift logs and records; operational safety verification; maintenance; surveillance; review of monthly report; ESF system walkdown; licensee event reports; generic issues; and, followup on IE Bulletin. The inspection involved 125 inspector hours by the resident inspectors.

Results: Inadequate reviews and revisions were discovered in several procedures which is a violation. The licensee took prompt corrective action and committed to a review of all procedures. The unit operated at 100% power throughout most of this inspection period. One unit trip occurred.

DETAILS

1. Persons Contacted

Within this report period, interviews and discussions were conducted with members of the licensee management and staff to obtain the necessary information pertinent to the subjects being inspected.

2. Operational Safety Verification

A. Documents Reviewed:

- Selected Operators' Logs
- Shift Supervisors Log
- Selected Shift Turnover Checklists
- Jumper Log
- Radioactive Waste Release Permits (liquid & gaseous)
- Selected Radiation Exposure Authorizations (REA's)
- Selected Chemistry Logs
- Selected Tagouts
- Health Physics Watch Log

B. The inspector(s) conducted routine entries into the protected area of the plant, including the control room, PAB, fuel building, and containment (when access is possible.) 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.

1. On a daily basis, particular attention was directed in the following areas:

- Instrumentation and recorder traces for abnormalities;
- Adherence to LCO's directly observable from the control room;
- Proper control room and shift manning and access control;
- Verification of the status of control room annunciators that are in alarm;
- Proper use of procedures;
- Review of logs to obtain plant conditions; and,
- Verification of surveillance testing for timely completion.

2. On a weekly basis, the inspector(s) confirmed the operability of a selected ESF train by:

   - Verifying that accessible valves in the flow path were in the correct positions;

   - Verifying that power supplies and breakers were in the correct positions;

   - Verifying that de-energized portions of these systems were de-energized as identified by Technical Specifications;

   - Visually inspecting major components for leakage, lubrication, vibration, cooling water supply, and general operable condition; and,

   - Visually inspecting instrumentation, where possible, for proper operability.

   Systems Inspected:

   - Containment Spray
   - Component Cooling Water
   - Emergency Power
   - Auxiliary Feedwater
   - Service Water

3. On a biweekly basis, the inspector(s):

   - Verified the correct application of a tagout to a safety related system;

   - Observed a shift turnover;

   - Reviewed the sampling program including the liquid and gaseous effluents;

   - Verified that radiation protection and controls were properly established;

   - Verified that the physical security plan was being implemented;

   - Reviewed licensee-identified problem areas; and,

   - Verified selected portions of containment isolation lineup.

C. Inspector Comments/Findings:

The unit operated at 100% power, except as delineated below, during this inspection period. The inspector monitored selected phases of the unit's operation, and determined that the areas inspected did not constitute a health and safety hazard to the public or plant personnel.

August 6	At 5:50 a.m., the unit experienced a 20 MWe runback when a printed circuit board in #31 static inverter failed. The unit was returned to full power and the circuit board was replaced.
August 22	At 9:22 p.m., the unit tripped due to a feedwater transient caused when the #31 main boiler feed pump ran back due to clogged orifices in the pump's speed control. The control oil was cleaned and a deteriorated high pressure rubber hose in a control oil reservoir was replaced.
August 23	At 7:37 p.m., the unit was returned to service.
August 28	At 1:33 a.m., the unit was removed from the bus to repair leaks in the condensers.
August 30	Condenser repairs were completed and the unit was returned to the bus at 10:08 p.m. The inspector verified that secondary chemistry was within specifications prior to and following return to power.
September 8	At 11:05 p.m., the unit had a 20 MWe runback caused by the #43 NI power range channel failing low. The high voltage power supply to #43 NI was replaced.
September 9	The unit was returned to full power.

No violations were identified.

3. Maintenance

A. 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 authorization; and,

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

1) R-19 Radiation Monitor Repair

Documents Reviewed:

- Work Request 2706
- Check List
- Data Sheet

2) Rod Bottom Bistable G-3 Replaced

Documents Reviewed:

- Work Request 2831
- Check List
- Bistable Certification

3) #31 Instrument Air Compressor Bearings Replaced

Documents Reviewed:

- Work Request 4755
- Work Procedure 3-PM-AIA-1
- Bearing and Diaphragm Certifications
- Retest

4) Excess Letdown Valve Solenoid Valve Replaced

Documents Reviewed:

- Work Request 3739
- Check List

No violations were identified.

4. Surveillance

A. Documents Reviewed:

- 3 PT-M1 Nuclear Power Range Channels
- 3 PT-M11 Turbine First Stage Pressure Analog Channel
- 3 PT-BW3 Inspection for Service Water Leaks in the Containment
- 3 PT-Q19 Component Cooling Valve Testing

B. Inspector Findings:

The inspector(s) directly observed the performance of portions of the above-listed tests, 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 proper reviews, by the licensee, had been conducted; and,
- That the results of the tests met Technical Specification requirements.

The inspector(s) also verified that the systems were properly returned to service following the above-listed tests, by observing actual valve and switch positions or position indication in the control room.

No violations were identified.

5. Review of Monthly Report

The Monthly Operating Report for July, 1984 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.

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

- The corrective action was adequate for resolution of the identified item; and,
- The operating report included the requirements of TS 6.9.1.5.

The inspector(s) have no further questions relating to the reports.

6. ESF System Walkdown

A. Documents Reviewed:

- Applicable Checkoff List for the System Inspected
- Applicable Prints for the System Inspected
- System Operating Procedures for System Components
- Technical Specifications

B. System Inspected and Inspectors' Comments

The inspectors found that the Emergency/Auxiliary Power System was lined up so that the system was capable of performing its intended function. The inspector also inspected interiors of cabinets, breakers and other equipment for loose material, jumpers, debris, etc. (performed with an assigned licensee operator).

During the system walkdown, several discrepancies between the system, checkoff list EL-1, and system operating procedures, SOP-EL-2 and SOP-EL-3, were identified. Discrepancies included modifications that had not been incorporated into procedures. This is a violation. (50-286/84-18-01)

The inspector discussed his findings with licensee management who promptly initiated a review and revision of COL-EL-1, SOP-EL-2, and SOP-EL-3. Licensee management also committed to review all operating procedures, and revise those needing revision within six months. These reviews will be performed by a lead reviewer as assigned in a new procedure review policy issued by the licensee just prior to the inspector developing the above findings. The licensee had issued this procedure review policy to improve the quality of procedure reviews because of recognized weaknesses in the review process. (Discrepancies between systems and procedures had previously been identified in Inspection Reports 84-02 and 84-06.)

Since discussing this finding with the licensee, the inspector has:

- Reviewed the draft revisions of COL-EL-1, SOP-EL-2, and SOP-EL-3, verifying that the identified discrepancies were corrected;

- Reviewed several modifications for other systems and the applicable procedures and found that those procedures had been revised to incorporate the modifications; and,

- Discussed the new review policy with licensee staff to determine that it is being implemented.

The inspector concluded that the actions taken by the licensee have corrected the identified violation. In addition, the licensee has taken action to prevent recurrence. Completion of the licensee's corrective action will be accomplished over a six month period. The inspectors will continue to follow the licensee's progress in this area. (50-286/84-18-02)

7. Licensee Event Reports

A. In-Office Review of Licensee Event Reports

The inspectors reviewed LER's submitted to the NRC:RI office to verify that details of the event were clearly reported, including the accuracy of the description of cause and adequacy of corrective action. The inspector determined whether further information was required from the licensee, whether generic implications were involved, and whether the event warranted onsite followup.

The following LER was reviewed:

- 84-012 Potential Unreviewed Safety Question (CCW System Overpressure)

B. Onsite Licensee Event Followup

The LER listed above was reviewed to verify that the reporting requirements of Technical Specifications and Station Administrative Procedures had been met, that appropriate corrective action had been taken, that the event was reviewed by the PORC (Plant Operating Review Committee), and that continued operation of the facility was in conformance with the Technical Specification limits. This event was reviewed and documented in Report 84-14.

No violations were identified.

8. Potentially Generic Issues

Potentially generic issued are issues that are identified throughout the industry, that could apply, but do not necessarily apply, to all power stations. The following are two of these issues, and the actions taken by this licensee to correct or address the issues brought to their attention by the inspector.

1) PORV Block Valve Operation and Control Logic

Because of concerns that the block valve may be reversed in mid-stroke, the inspector reviewed the PORV block valve operation and control logic with the licensee.

The block valves use a Limitorque operator. The block valve control logic prevents reversing valve direction until it has reached the full open or closed position. The block valve stroke time is measured each refueling outage and is approximately 47 seconds.

2) Underrated Fuses Which May Affect Vital Buses

Bussman or ITE-Gould fuse holders and fuses (types TRR and FRN) were derated from 250 VDC to 200 VDC at another facility. The licensee determined that since Indian Point Unit 3 has a 125 VDC system, the derated fuses and holders would still be above the rated voltage.

No violations were identified.

9. Followup on IE Bulletin

Bulletin 80-06 (Engineered Safety Features Reset Controls) was closed in Inspection Report 82-03. Several modifications committed to in the licensee's March 23, 1981 response to Bulletin 80-06 were completed after Inspection Report 82-03. The inspector reviewed the modifications committed to in the licensee's bulletin response and confirmed that they were completed. The inspector also confirmed that the Plant Emergency Procedures were revised to reflect Bulletin 80-06 modifications.

The inspector has no further questions on this bulletin.

10. 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 exit interview was held on September 14, 1984 to discuss this report period.