

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. Hamlin, Assistant to the Resident Manager
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) Deficiency (50-286/78-13-05) Failure to approve temporary procedure changes in accordance with the Environmental Technical Specifications Requirements (ETSR). See item 80-11-08 below.

(Closed) Inspector Follow Item (50-286/79-16-04) Check Preventative Maintenance (PM) program for safety related components. The inspector conducted a review of the PM program for safety related components and found no inadequacies.

(Closed) Inspector Follow Item (50-286/80-10-01) Emergency Procedures Immediate Action Format was considered wordy, as determined by the Emergency Preparedness Inspection team. A recent review of emergency procedures indicates revisions have been made to considerably shorten, and remove superfluous words from the immediate action portion of the procedures. The inspector has determined that immediate action format is no longer wordy.

(Closed) Unresolved Item (50-286/80-10-07) Steam generator wide range levels are all powered from the same electrical bus with no backup instrumentation specified in the procedure. A review of ONOP-EL-3 Procedure gives the operator guidance on how to regain power to this bus from another protected source. This satisfies the inspectors' concerns.

(Closed) Inspector Follow Item (50-286/80-11-01) The inspector had concerns regarding the lack of acceptance criteria which was to be incorporated into a procedure. The inspector has reviewed Procedure NEM AP-08, Revision 4, and confirmed that the acceptance criteria is now in place. This item is closed.

(Closed) Inspector Follow Item (50-286/80-11-02) Radiological air sampling procedure modifications: inclusion of volume meter calibration procedure, temperature compensation, and air exhaust leak checks. The inspector has verified that revisions have been made to Procedure NEM D-10, Revision 3, which provides for a volume calibration procedure and exhaust leak checks. The licensee is currently installing new meters that are temperature compensated. As of this date, all but three have been changed. This item is closed.

(Closed) Deficiency (50-286/80-11-03) Failure to perform 1979 SR 90 analysis on drinking water and surface lake water. By verification of the licensee's actions taken as stated in the letter to the NRC dated December 19, 1980, and by the review of the 1981 Annual Environmental Operating Report, which includes SR 90 analysis, the inspector considers this item to be resolved.

(Closed) Deficiency (50-286/80-11-04) Failure to sample drinking water from the New York City Aqueduct from January 2, 1979 to May 21, 1979. By verification of the licensee's actions taken as stated in the licensee's letter to the NRC dated December 19, 1980, and the review of the 1981 Annual Environmental Operating Report, which includes the sampling of New York City drinking water, the inspector considers this item closed.

(Closed) Unresolved Item (50-286/80-11-05) Failure to meet required Minimum Detectable Activity (MDA) in various media in 1979. The licensee has modified its reporting requirements and procedures to reflect the concerns of the inspector. The inspector reviewed the 1981 survey which utilizes these procedures and has no further questions.

(Closed) Deficiency (50-286/80-11-06) Failure to include the results of milk animal census in the Annual Environmental Operating Reports. By verification of the licensee's actions taken as stated in the letter to the NRC dated December 19, 1980, and the review of the 1981 Annual Environmental Operating Report, which includes the milk animal census, the inspector considers this item resolved.

(Closed) Inspector Follow Item (50-286/80-11-07) Clarification of reporting level criteria for anomalous measurements through revision of Procedure NEM A-07, Revision 1. The inspector reviewed NEM-A-07, Revision 2, which has incorporated the reporting level criteria. This item is closed.

(Closed) Deficiency (50-286/80-11-08) Failure to obtain required approvals prior to the implementation of temporary procedural changes in the sampling program. The inspector verified actions taken by the licensee as delineated in their letter to the NRC dated January 23, 1981, and considers this item closed.

(Closed) Deficiency (50-286/80-11-09)
 (Closed) Unresolved Item (50-286/80-11-10)
 (Closed) Unresolved Item (50-286/78-13-06)
 (Closed) Unresolved Item (50-286/78-13-14)

The above items deal with the delta T changes to the river, and thermal stresses on fish. A change to Technical Specifications has removed them from the ETSR program, and has placed them under the State Pollutant Discharge Elimination System (SPDES). These items are considered closed.

(Closed) Deviation (50-286/81-09-01) Install a fire damper in the vent opening between the cable tunnel and the transformer yard. The inspector has verified the proper installation of this damper. This item is closed.

(Closed) Violation (50-286/82-08-01) Procedure was not being utilized for drumming solid waste. The inspector has verified the actions taken by the licensee as delineated in the letter to the NRC dated July 23, 1982, and considers this item closed.

(Closed) Inspector Follow Item (50-286/82-10-01) PORC Committee review of safety related jumpers or lifted leads. The licensee has changed Administrative Procedure AP-13 to reflect the inspector's concerns. This item is 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 Authorizations (REA's)

No violations were identified.

4. Surveillance

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-M47 Meteorological Station Backup Diesel Functional Test
- 3PT-Q7 Diesel Generator Mechanical Overspeed Trip Test
- 3PT-Q11 Process Radiation Monitor Calibration
- 3PT-R16 Diesel Generator Functional Test
- 3PT-SA2 Post Accident Containment Atmosphere Sampling System

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 Motor Cooler Discharge Flow Indicator 1130

Documents Reviewed:

- Work Request 2940
- Weld Requisitions 15543, 14574, and 14570
- Weld Data Check Sheets
- Sketches Involved with Installation
- Certification for Valves D395
- Certification for Couplings D518 and A757

2) Diesel Inspections and Repairs for #33 Diesel Generator (DG)

Documents Reviewed:

- Work Permit 6566
- Work Request 2848
- Procedures:

3-PM-Q-ES-5, Rev. 2	DG Quarterly Inspection
3-PM-SA-ES-11	DG Semi-Annual Inspection
3-PM-A-ES-3	DG Annual Inspection
- Acceptance Paperwork for New Filters

3) Reactor Coolant Pump Preventative Maintenance

Documents Reviewed:

- 3-PM-R-RCS-2, Rev. 0 Preventative Maintenance of RCP
- Work Permit 5664
- Work Request 1072
- Radioactive Exposure Authorization 2230
- Requisition and Certification Papers for: Seal Service Kit; Seal Maintenance Kit; #1 Insert; and #2 Runner
- Dial Indicator: M 009 Calibration
M 023 Calibration
- Micrometer: M 237 Calibration

No violations were identified.

6. Purging and Venting of Containment

A. Documents Reviewed:

- NUREG 0737 - Clarification of TMI Action Plan Requirements
- Inspection Report 81-02
- Letter from NRC to licensee dated November 24, 1981
- FSAR
- Technical Specifications
- System Descriptions
- Plant Procedure SOP-CB-3, Revision 4, Containment Pressure Relief and Purge System Operation
- NRC's interim position for Containment Purge, Enclosure 1 to Memo to Regional Administrators dated July 27, 1982
- Waste Release Records for 1981

B. General Description of the Purge and Pressure Relief Systems

The system consists of two individual sub-systems. The first being a 36" containment building supply and exhaust complete with heating and fans to move air to and from the containment in a shutdown mode. By procedure, this system is never used while the plant is operating. The second system, called the pressure relief system is a 10" system complete with ducting, a fan, and 3 isolation valves in Series. This system is designed to pressure relieve the containment to prevent a pressure buildup, which results from the Weld Channel and Containment Penetration Pressurization System leakage, temperature changes, steam leak, etc., which would eventually cause a safety injection signal. The installation of the three, independent, operated valves in Series were a design consideration to vent the containment at power.

C. Inspector Findings:

After a review of the above documents, the inspector noted that the containment is pressure relieved, during normal operation, approximately every third day for a period of about three hours. The procedure gives guidelines to the operator as to when, and how to conduct the evolution. The total purge time for 1981 was 329 hours.

The three valves receive a closure signal from each of these three sources: (1) safeguards system actuation; (2) manual spray actuation; and (3) high radiation level in the containment (R-12). In addition to the above signal, the valves can be closed from the control room.

In addition, the 36" valves have been mechanically modified to prevent inadvertent opening by removal of the air source to their solenoid operating valves. The licensee's log sheets verify, every 24 hours, that the purge valves are closed when required to be closed.

No violations were identified.

7. Review of Test and Measurement Equipment Program

A. Documents Reviewed:

- Administrative Procedure AP-17 - Calibration of Measuring and Test Equipment
- IC-AD-2 - Calibration and Control of Measuring and Test Equipment
- ANSI N 45.2.4-1972 - IEEE Standard Testing Requirements for Instrumentation and Electrical Equipment
- Various plant records.

B. Inspection Findings:

The inspector, by review of established controls for test equipment, verified the following:

- That calibration and adjustment frequencies have been established;
- That an equipment inventory list has been prepared for the following:
 - 1) All test and measurement equipment which is used on safety-related equipment;
 - 2) Calibration and adjustment frequency for each piece of equipment;
 - 3) All equipment is traceable to the Bureau of Standards; and,
 - 4) Calibration procedures exist for each piece of equipment.
- That formal requirements exist for marking the latest calibration date on each piece of equipment;
- That out of calibration controls have been established;
- That a formal system has been established to introduce new test equipment into the licensee's program for calibration; and
- That responsibilities have been assigned to assure the timely calibration of the test and measuring equipment.

The inspector traced the calibration of several pieces of test and measuring equipment through the above listed criteria, with no violations identified.

8. Review of Monthly Report

A. Monthly Operating Report

The Monthly Operating Report for July, 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.

3. 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.

9. Followup on IE Circulars

The inspector reviewed the following IE Circulars. For each circular reviewed, the inspector ascertained that:

- The circular was received by the licensee's management;
- The circular was reviewed for applicability;
- For each circular, if it is applicable to the facility, the appropriate corrective actions have been taken or are scheduled to be taken.

(Closed) 79-CI-12, Potential Diesel Generator Problems. Due to design differences, delineated in the licensee's memo dated September 3, 1982, the licensee has determined that this circular is not applicable to Indian Point Unit 3.

(Closed) 80-CI-11, Emergency Diesel Generator Lube Oil Cooler Failures. Due to design differences, delineated in the licensee's memo dated September 8, 1982, the licensee has determined that this circular is not applicable to Indian Point Unit 3.

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 additional exit interview was held on September 15, 1982 to summarize inspection findings, and to discuss plant status and current inspector concerns.