

U.S. NUCLEAR REGULATORY COMMISSION  
REGION I

Report No. 50-387/84-20  
50-388/84-24

Docket No. 50-387  
50-388

License No. CPPR-102  
NPF-14 Priority -- Category C

Licensee: Pennsylvania Power & Light Company  
2 North Ninth Street  
Allentown, Pennsylvania 18101

Facility Name: Susquehanna Steam Electric Station

Inspection At: Berwick, Pennsylvania

Inspection Conducted: May 17-18, 1984

Inspectors: Marie Miller 6/1/84  
Marie T. Miller date  
Radiation Specialist

Approved by: M. M. Shanbaky 6/5/84  
M. M. Shanbaky, Chief date  
Facilities Radiation Protection Section

Inspection Summary:

Inspection conducted May 17-18, 1984 (Inspection Report Nos. 50-387/84-20;  
50-388/84-24)

Areas Inspected: Special, announced safety inspection of the licensee's action on previously identified items relative to post-accident sampling and monitoring capability. The inspection involved 8 inspector-hours on site by one region-based inspector.

Results: No violations were identified.

## DETAILS

### 1.0 Persons Contacted

During the course of this special inspection, the following licensee personnel were contacted or interviewed:

#### 1.1 Licensee Personnel

- \*H. Keiser, Plant Superintendent
- \*T. Ball, Engineer Level II
- \*T. Doeblner, Chemistry Supervisor
- T. Iorfida, Plant Engineering Supervisor
- \*R. Prego, Quality Assurance Supervisor - Operations
- \*J. Todd, Compliance

Other members of licensee staff were also contacted or interviewed during this inspection.

\*denotes attendance at exit interview on May 18, 1984

#### 1.2 NRC Personnel Attending the Exit Meeting

- L. Plisco, Resident Inspector
- H. Williams, Resident Inspector (Peach Bottom)

### 2.0 Purpose

The purpose of this special inspection was to review the status of previously identified items relative to your post-accident sampling and monitoring capabilities, in accordance with commitments specified in your letter of March 21, 1984.

### 3.0 Status of Previously Identified Items

- 3.1 (Open) Inspector Follow-up Item (50-387/84-10-01; 50-388/84-11-01): Improvement to Post-Accident Sampling and Analysis Station. The licensee developed CH-S4-004, "Functional Test of Units 1 and 2 Post-Accident Sampling Station (PASS)" to be conducted semiannually to validate the state of readiness of the PASS System as required by Section 18.1.21.3.4.4 of the FSAR. The ability of the Unit 1 PASS to collect a sample from the jet pump flow sensing line was demonstrated on April 30, 1984, and documented in accordance with CH-S4-004. The inspector noted that two test exceptions with regard to return flow indication were in the process of being resolved. The functional test also assured that the flow indicator reading when pressure corrected matched the flow rating of the critical orifice  $\pm 20$  percent.

The inspector verified that the PASS sample collection casks for Unit 1 and Unit 2 were interchangeable and provided signal actuation when interlocked with the PASS System. Gas sampling equipment was also repaired and spare parts available.

With regard to the procedural problems previously identified, the inspector reviewed the following procedures:

- EP-1P-051, Revision 0, "Radioactive Sample Transport During an Emergency,"
- CH-S4-005, Revision 0, "Backflushing Procedure for Unit 1 and Unit 2 Post-Accident Sampling Station,"
- CH-RC-071, Revision 0, "Radiochemical Analysis of High Activity Iodine Cartridge Samples," and
- EP-1P-046, Revision 3, "PASS Iodine/Particulate Sample."

The inspector determined that these procedures satisfactorily addressed the concerns of transporting a PASS liquid sample off site, backflushing the PASS System, analyses of high activity iodine samples, and proper packaging of the iodine cartridge assembly.

The licensee stated that EP-1P-051 would be revised within one week to address preparing a pressurized gas sample for transport.

The remaining concerns, representativeness of containment air samples, preventative maintenance program for the PASS, and the time motion study to determine resultant dose/exposure rates from taking a PASS sample are to be resolved at a later date.

- 3.2 (Closed) Inspector Follow-up Item (50-387/84-10-01; 50-388/84-11-02): Improvements to Noble Gas Monitors: The inspector determined that the High Range Noble Gas Monitors for Unit 2 were calibrated on April 5, 1984. In addition, the licensee developed a correction curve for the high end scale of the noble gas SPING monitors.
- 3.3 (Open) Inspector Follow-up Item (50-387/84-10-03; 50-388/84-11-03): Improvement to Plant Effluent Sampling and Analysis. The licensee has committed to address this item by June 1, 1984, and confirm the representativeness of iodine samples by the end of the Unit 1 first refueling outage.
- 3.4 (Closed) Inspector Follow-up Item (50-387/84-10-04; 50-388/84-11-04): Improvement to High Range Containment Monitors. The inspector determined that both Unit 1 and 2 High Range Containment Monitors had been calibrated by March 17, 1984. The inspector also verified that appropriate print changes had been made to show the correct electrical separation in accordance with DCN-84-1089 dated March 27, 1984.

#### 4.0 Exit Interview

The inspector met with the licensee representatives (denoted in Section 1.1) at the conclusion of the inspection on May 18, 1984, to discuss the scope and findings of the inspection as detailed in this report.

At no time during this inspection effort was written material provided to the licensee by the NRC inspector.