

U. S. NUCLEAR REGULATORY COMMISSION
REGION I

Report No. 50-277/91-04 and 50-278/91-04

Docket No. 50-277 and 50-278

License No. DPR-44 and DPR-56

Licensee: Philadelphia Electric Company
2301 Market Street
Philadelphia, Pennsylvania 19101

Facility Name: Peach Bottom Atomic Power Station, Units 2 & 3

Inspection At: Delta, Pennsylvania

Inspection Conducted: January 28-February 1, 1991

Inspectors:

R. J. Paolino
R. J. Paolino, Senior Reactor Engineer
Plant System Section, EB,
Division of Reactor Safety

3-25-91
date

L. Kay
L. Kay, Reactor Engineer,
Plant System Section, EB
Division of Reactor Safety

25 March 1991
date

Approved by:

C. J. Anderson
C. J. Anderson, Chief, Plant System Section
EB, Division of Reactor Safety

3/25/91
date

Inspection Summary: Inspection on January 28-February 1, 1991 (Combined
Inspection Report Nos. 50-277/91-04 and 50-278/91-04)

Areas Inspected: Routine, unannounced inspection of the licensee's Fire Protection/Prevention Program including implementation and verification of licensee administrative controls, surveillance/maintenance procedures, calibration and testing, fire protection modifications, training and facility tour.

Results: No violations involving safety-related areas or equipment were identified. The Fire Protection Program is being satisfactorily implemented except for deficiencies noted in the implementation of administrative procedures for the control of combustibles.

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DETAILS

1.0 Persons Contacted

1.1 Philadelphia Electric Company

- R. Alexander, NQA Auditor
- J. Austin, Manager, Installation
- A. Bazzani, Project Manager
- *G. Bird, Branch Head
- G. Daebeler, Support Manager
- W. Eckman, NQA Senior Auditor
- *E. Fogarty, Project Manager
- *D. Foss, Regulatory Group Leader
- *J. French, Training
- T. Furlong, Fire Protection Supervisor (Acting)
- D. LeQuia, Superintendent Plant Services
- F. Shanaman, Plant Services
- R. Smith, Inspection Coordinator
- R. Whicker, NMD-Outage Management
- J. Wilson, Maintenance Superintendent
- W. Worrilow, Sub-Foreman, Electrical

1.2 State of Pennsylvania

- S. Maingi, Representative

1.3 U.S. Nuclear Regulatory Commission

- J. Lyash, Senior Resident Inspector

*Denotes personnel not present at exit meeting of February 1, 1991.

2.0 Fire Protection Program (64704)

2.1 Introduction

An inspection was performed to evaluate and assess the adequacy of the licensee's fire protection program and associated implementing procedures. The inspection included the verification of procedure implementation, technical adequacy of procedures and programs, inspection of plant facilities, fire brigade training and qualification and review of previous licensee audit findings.

Surveillance, routine test, administrative, and other procedures related to plant fire protection were reviewed with respect to administrative requirements for an effective fire protection program. A sample of completed surveillance documentation was reviewed to verify that fire protection surveillance procedures are being properly implemented. Overall, the Peach Bottom Fire Protection program is being satisfactorily implemented.

2.2 Plant Tour

During the inspection period, the inspector walked down various areas of Units 2 and 3, examining the fire protection water systems, including fire pumps, fire water piping and distribution systems, post indicator valves, hydrants and contents of fire houses. The examination included accessible vital and non-vital area fire detection and alarm systems, automatic and manual fixed suppression systems, interior hose stations, fire barriers, penetration seals and fire doors. The inspector observed general plant housekeeping conditions and randomly checked tags of portable fire extinguishers to verify the required monthly surveillance check. No deterioration of equipment was noted. The inspection tags attached to fire extinguishers indicate that the required inspection frequency is being met.

During the facility tour, the inspectors observed several potential fire hazards in non-safety related areas of Unit 2 as follows:

- Untreated (fire retardant) wood consisting of skids and packing materials was identified on the Unit 2 turbine floor.

Section 7.2.1.4 of this procedure states, in part, that:
"Disposition of containers may be unpacked within the plant.... However, all combustible materials shall be removed immediately (within 8 hours) from the area following unpacking";

- Trash in the form of paper, used plastic boots/gloves, and a large plastic bag filled with rags was found on a Unit 2 non-safety related cable tray (2BP010/2B0030) at elevation 135' of the turbine building in the area of the feedwater mezzanine contrary to licensee Procedure A-30, Revision 8.

Section 7.1.1.4 of this procedure states, in part, that:
"Garbage, trash, scrap, litter.... and other excess material shall be collected and removed from the work site or disposed of by appropriate means"; and,

- Scaffolding was identified in the Unit 2 non-safety related area of turbine deck that would restrict the movement and complete access to the emergency fire fighting equipment cage. The scaffolding authorization tag was not dispositioned by the plant fire protection assistant as required by licensee Procedure M506 006, Revision 0.

Section 3.2.6 of this procedure states, in part, that:
"Scaffolding shall not be built... or interfere with proper functioning of any fire fighting equipment... unless dispositioned on the scaffolding authorization tag by the Plant Fire Protection Assistant."

The three examples noted above are unresolved (277/91-04-01).

2.3 Fire Brigade Training

The inspectors verified that training of the fire brigade is being effectively controlled and, as implemented, assures compliance to the licensee's Fire Protection/Prevention Program. Areas examined for this determination include organization, training, frequency and content of fire drills and availability of manual fire fighting equipment. Fire brigade members receive site specific fire fighting training prior to joining the fire brigade team and every two years thereafter. The fire brigade team meets quarterly to review changes and fire protection subjects as necessary. Records indicate fire drills are held at least twice per year for each brigade member.

In a previous fire drill it was noted that the men's fire protection clothing and boots were too large for the women serving as brigade members. This has been rectified with the purchase of smaller size gear to fit the women brigade members.

No deficiencies were identified in the above areas. The inspector noted that the requirements for fire brigade membership are adequately defined in the licensee's fire protection program.

2.4 Surveillance and Test Procedures

The inspectors reviewed completed routine and surveillance tests to ensure that the Peach Bottom Technical Specifications requirements are being completed in accordance with the required frequency.

The inspector's review of surveillance tests and various complementing procedures related to the fire protection program established that these tests and procedures are adequate to ensure effective implementation of the Technical Specification requirements.

No deficiencies were noted with the existing documents.

2.5 Conclusion

Fire protection equipment was well maintained, adequate fire watches were observed and no deficient fire barriers were noted. Except for the deficiency noted in 2.2, combustibles were well controlled. Fire brigade training, composition and qualifications were up-to-date and acceptable. Annual and triennial QA audits of the Fire Protection Program were performed. Corrective actions taken as a result of the audits were timely and adequate.

3.0 Status of Previously Identified Open Items

(Open) Unresolved Items No. 277/90-06-06 pertaining to licensee corrective actions regarding the following:

- purchase and receipt of smaller size fire fighting equipment;
- revise ST 8.1.2-1 to better describe proper sampling of the DDFP fuel oil;
- review past modifications that affected the fire system to determine if drawings and procedures are correct;
- review and update fire system P&IDs; and
- check and re-tag underground valves if necessary.

All items are complete except for re-tagging of the underground valves.

This item remains open pending completion of re-tagging underground valves.

4.0 Exit Meeting

The inspector met with licensee representatives (denoted in Details, paragraph 1) at the conclusion of the inspection on February 1, 1991. The inspector summarized the scope of the inspection and the inspection findings.