



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**

REGION I
475 ALLENDALE ROAD
KING OF PRUSSIA, PA 19408-1415

January 21, 2003

Docket No. 50-171

License No. DPR-12

Mr. John L. Skolds
President and CNO
Exelon Nuclear
Exelon Generation Company, LLC
4300 Winfield Road
5th Floor
Warrenville, IL 60555

**SUBJECT: NRC INSPECTION REPORT 50-171/2003006, EXELON NUCLEAR, PEACH
BOTTOM ATOMIC POWER STATION UNIT 1, DELTA, PENNSYLVANIA**

Dear Mr. Skolds:

On January 2-3 2003, Ms. Laurie Peluso of this office conducted an inspection at the Peach Bottom Atomic Power Station, Unit 1 (PB-1). The findings of the inspection were discussed with members of your staff on January 3, 2003. The enclosed report presents the results of that inspection.

The inspection consisted of selective examinations of procedures, organization, site tours, interviews with personnel, and observations by the inspector to determine status of PB-1 and to evaluate decommissioning support activities and radiological safety. The scope of the inspection included the planned exclusion area semi-annual surveillance test, radiological surveys, material condition inspection, and security. The programs were considered to be appropriately implemented. No safety concerns were identified.

In accordance with 10 CFR 2.790 of the NRC's "Rules of Practice," a copy of this letter and its enclosure will be placed in the NRC Public Document Room (PDR) and will be accessible from the NRC Web site at <http://www.nrc.gov/reading-rm.html>. No reply to this letter is required.

We appreciate your cooperation during this inspection.

Sincerely,

/RA/

Ronald R. Bellamy, Chief
Decommissioning and Laboratory Branch
Division of Nuclear Material Safety

Mr. J. Skolds

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Enclosure:

1. NRC Inspection Report No. 50-171/2003006

cc w/encl:

R. West, Site Vice President

S. Beck, Regulatory Assurance Manager (Acting)

G. Johnston, Plant Manager

Mr. J. Skolds

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Distribution w/encl:

H. Miller, RA

J. Wiggins, DRA

B. Holian, DRP

M. Shanbaky, DRP

L. Peluso, DNMS

R. Bellamy, DNMS

S. Brown, NMSS

NRC Resident Inspector

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U.S. NUCLEAR REGULATORY COMMISSION
REGION I

Docket No.: 50-171
License No.: DPR-12
Report No.: 50-171/2003006
Licensee: Peach Bottom Atomic Power Station Unit 1
1848 Lay Road
Delta, Pennsylvania 17314-9032
Facility: Peach Bottom Atomic Power Station, Unit 1
Location: Delta, Pennsylvania
Dates: January 2-3, 2003
Inspector: Laurie Peluso, Health Physicist, Decommissioning and Laboratory
Branch (D&LB), Division of Nuclear Materials Safety (DNMS)
Approved by: Ronald Bellamy, Chief, D&LB, DNMS

REPORT DETAILS

The Peach Bottom Atomic Power Station, Unit 1 (PB-1) has been permanently shutdown since October 31, 1974 and has been in SAFSTOR since that time. SAFSTOR is a decommissioning method by which the nuclear facility is placed in long term storage followed by decontamination and dismantlement of equipment. Final decommissioning will not be scheduled until after 2015, which is the tentative permanent shutdown date for Peach Bottom Units 2 and 3.

The purpose of this inspection was to assess the licensee's performance during the semi-annual surveillance test of the exclusion area and to verify implementation of the Technical Specifications (TS). The exclusion area is the area encompassed by the reactor containment structure including its security fencing, the spent fuel area including its security fencing, and the secured radwaste area. The inspection included an examination of administrative and implementing procedures, radiological surveys, material condition inspection, and security.

The Plant Manager maintained overall responsibility for the administration of all Unit 1 functions. Several departments, such as Radiation Protection, Regulatory Affairs, and Security have specific functions to implement the TS. The licensee had established an Administrative Guideline (AG-124) stipulating requirements for implementing the TS and for notifying and reporting reportable events such as entrance of unauthorized persons into the facility, significant changes in radiation or contamination levels, effluents in excess of TS limits, and water accumulation in containment sump in excess of 500 gallons. The inspector noted that the licensee upgraded guideline AG-124 to a formalized procedure (LS-PB-800, Unit 1 Process Control Program), effective October 2002. The licensee included all TS requirements and added the 10 CFR 50.48 fire protection requirements. Implementation and performance of LS-PB-800 will be reviewed during the next inspection.

To implement AG-124, the licensee conducts a semi-annual surveillance test and documents the results in an annual report. The Unit 1 Exclusion Area Semi-Annual Surveillance Test (ST-H-099-960-2) required the following: conducting a pre-job briefing, ensuring operations and security are notified prior and following the test, inspecting the exclusion area security barriers, performing radiological surveys of surface contamination and air particulate activity, monitoring for water intrusion and liquid releases, and replacing the high efficiency particulate filter on the containment breather. The procedure incorporated all the activities required by the TS.

The inspector observed the licensee's performance of ST-H-099-960-2. The licensee conducted a pre-job briefing. The briefing was detailed and described the scope of work to be conducted, radiological safety, industrial safety, human performance, and confined space precautions. The team members signed onto the correct Radiation Work Permit. Notifications were made prior to and following the surveillance test. Results of the work were documented as required by the procedures and were accepted. The results of the surveillance test showed that dose rates were less than 1milliRem per hour, loose contamination was less than 1000 disintegrations per 100 square centimeters, and water intrusion into the containment sump was less than 500 gallons. Obvious infiltration of water into the building was not identified. Material condition in the building was adequate; neither corrosion nor structural degradation was obvious. Lighting and ventilation were adequate and working conditions were generally safe. Security barriers were locked and the integrity of the exclusion areas was maintained. Security measures were being implemented.

The inspector also reviewed the annual report for 2001. The report was submitted to the NRC and described the results of the facility radiation surveys, the status of the facility, and an evaluation of the performance of security and surveillance measures as required by the TS. The report was submitted by the date required by TS.

Based on the above observations, document reviews, and interviews, the inspector determined that the licensee's performance was appropriate to complete the semi-annual surveillance test of the exclusion area. Adequate radiological controls and radiological protection practices were in place. No adverse material conditions in the buildings were observed. No safety or security concerns were identified. The Unit 1 TS requirements were met.