

U.S. NUCLEAR REGULATORY COMMISSION
OFFICE OF INSPECTION AND ENFORCEMENT

Region I

Report No. 70-135/79-08
70-364/79-12

Docket No. 70-135
70-364

License No. SNM-145
SNM-414

Priority: 1

Safeguards Group 1
Category: UR-PU

Licensee: Babcock and Wilcox Company
P.O. Box 1260
Lynchburg, Virginia 24505

Facility Name: Nuclear Materials Division
Pennsylvania Operations

Inspection at: Park Township and Apollo Facilities

Inspection conducted: April 16-20 1979

Inspectors: G. C. Smith
G. C. Smith Safeguards Auditor

8/8/79
date signed

Approved by: J. H. Joyner
J. H. Joyner, Chief, Nuclear Material
Control Support Section, Safeguards
Branch

8/8/79
date signed

Inspection Summary:

Inspection on April 16-20, 1979 (Combined Inspection Report Nos.
70-135/79-08 and 70-364/79-12)

Areas Inspected: Routine unannounced inspection by a regional based inspector assisting the resident inspector of nuclear material control and accounting; physical security; health and safety; and environmental programs. The inspection involved 38 inspector hours on site by one NRC inspector.

Results: Of the four areas inspected, no apparent items of noncompliance were identified in three areas and one apparent item of noncompliance was identified in one area (Infraction - Failure to properly search a vehicle entering the protected area - Paragraph 3).

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DETAILS

1. Persons Contacted

- * W. F. Heer, Manager, Pennsylvania Operations
- * M. A. Austin, Manager, Technical Control
- * E. L. Bellisario, Manager, Nuclear Material Control and Accounting
- * C. R. Wilson, Radiological & Nuclear Safety Compliance Auditor
- * D. G. Ortz, Manager, Compliance
- * W. Powers, Manager, Nuclear Material Accounting
- * R. Carlson, Manager, Uranium Plants
- * J. Sherwood, Manager, Nuclear Material Control
- * T. Bauman, Coordinator, Health and Safety
- * R. Zackowski, Acting Manager, Production Control and Traffic
- * W. L. Kushner, NRC Resident Inspector

The inspector also interviewed other licensee employees from the Nuclear Material Control, Security, and Radiological and Nuclear Safety groups.

*Denotes those present at the exit interview.

2. Nuclear Material Control and Accounting (MCA)

The inspector conducted a walk-through inspection of all areas of the Apollo and Parks Township facilities. During the walk-through inspections several areas were specifically reviewed. The scale and balance program was examined and it was determined that the scales and balances that were checked were within the prescribed tolerances and were being checked against standards across the range of their operation at the prescribed frequencies. The inspector weighed containers of material in several areas of the plutonium (Pu) facility and found each to be in agreement with supporting documents (label data, control cards and area criticality postings). The tampersafing programs in the low enriched uranium (LEU) and Pu facilities were reviewed. The inspector determined that acceptable seals were being used, seal control was acceptable, written procedures were available, seal application and removal were being performed properly and tampersafing records were being maintained in accordance with approved procedures.

No apparent items of noncompliance were identified.

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3. Radiation and Criticality Protection

The inspector reviewed and observed the licensee's program for radiation and criticality protection. This review included insuring continuous monitors for airborne contamination were operating properly and at the correct air flow settings. The air flow through the glove boxes filters was also observed for proper operation and flow settings.

In the Pu facility, the inspector checked the SNM Transfer Log entries for several glove boxes to insure that fissile and net weight accumulations within the box did not exceed, at any time, criticality safety limit postings.

No items of noncompliance were identified.

4. Independent Inspection Effort

In conjunction with reviewing inspection program procedures, the inspector observed general health and safety practices and housekeeping controls, including disposal of materials and debris. As part of this review, the inspector observed materials and equipment being stored in the Apollo facility parking area. At the inspector's request, the licensee performed a radiological survey of approximately 25 pieces of material and equipment selected at random. One tank and two pieces of material were found to exceed the radiological release limits of the licensee's internal procedures. However, the contamination levels found were within acceptable license limits, so no item of noncompliance was cited. The licensee did, however, agree to review all equipment and materials being stored in the Apollo parking area and remove those pieces which exceed internal radiological procedural limits.

No items of noncompliance were identified.

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2.790 INFORMATION - NOT FOR PUBLIC DISCLOSURE.

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