

U.S. NUCLEAR REGULATORY COMMISSION

REGION I

Report No. 70-184/82-01

Docket No. 70-184 License No. SNM-182 Safeguards Group 5

Licensee: Westinghouse Electric Corporation
Westinghouse Circle
Horseheads, New York 14845

Facility Name: Industrial & Government Tube Division

Inspection at: Horseheads, New York

Inspection conducted: June 30 - July 2, 1982

Date of Last Material Control and Accounting Inspection: April 17, 1978

Type of Inspection: Unannounced Material Control and Accounting

Inspector: *A. Della Ratta* 7/28/82
A. Della Ratta, Auditor date signed

Approved by: *A. T. Gody* 7/28/82
A. T. Gody, Chief, Safeguards Section, date signed
Technical Programs Branch

Inspection Summary:

Inspection on June 30 - July 2, 1982 (Report No. 70-184/82-01)

Areas Inspected: Facility Organization; Facility Operation; Shipper-Receiver Verification; Internal Control; Inventory Verification; and Records and Reports. The inspection involved 16 inspector-hours onsite by a regional based NRC inspector.

Results: The licensee was found to be in compliance with NRC requirements within the areas examined.

DETAILS

1. Persons Contacted

* Mr. R. A. White, Manager, Production and Inventory Control, Industrial and Government Department

Mr. J. Bensley, Planner and Accountability Representative

* Mr. T. I. Patterson, Planner

Mr. R. H. Underwood, Nuclear Engineer, Manufacturing

Mr. H. L. Balmer, Supervisor, Detector Manufacturing

Mr. C. D. Spangenberg, Radiation Protection Officer

Mr. R. C. Carstens, Supervisor, Packaging and Warehousing

* denotes presence at the exit interview.

2. 30703 - Exit Interview

The inspector met with the licensee representatives (denoted in paragraph 1) on July 2, 1982. The inspector summarized the purpose, scope, and findings of the inspection.

3. 92713 - Independent Inspection Effort

No violations were identified.

The inspector toured the facility to verify the licensee's possession and use of special nuclear material.

4. 85202 - Facility Organization

No violations were identified.

The inspection results were attained through discussions with licensee management and review of the licensee's Nuclear Materials Accountability Control Manual dated April 1, 1980. The manual contained adequate written procedures for special nuclear material control and accounting. Written statements of responsibility and authority were established for those positions with responsibility for SNM. The licensee was in the process of revising this manual to reflect current practices.

5. 85204 - Facility Operation

No violations were identified.

The inspector determined that the licensee continues to manufacture large and small fission counters that contain U-235. The fission counters are calibrated with the use of PuBe neutron sources.

The inspector reviewed the licensee's process and operations and found that sufficient MBA's/ICA's had been established to enable localization of SNM discrepancies.

6. 85208 - Shipper - Receiver Verification

No violations were identified.

The inspector determined that the licensee had established procedures to assure that all special nuclear material received or shipped was accurately accounted for. These procedures were incorporated into the Accountability Manual.

The licensee had 9 receipts and made 112 shipments of special nuclear material since March 31, 1977. The NRC-Forms 741 completed for these transactions were reviewed against criteria for preparing and completing the form, including timeliness of issuance and completion, correctness of data, and authorized signature. No discrepancies were noted.

7. 85210 - Internal Control

No violations were identified.

The licensee had established and was following a system of written material control and accounting procedures that provided for knowledge of the quantity, identity, and current location of all SNM within the facility.

8. 85213 - Inventory Verification

No violations were identified.

The licensee had conducted semi-annual physical inventories in accordance with the criteria established in their SNM Accountability Manual.

The inspector performed an inventory verification on July 1, 1982, by comparing the licensee's physical inventory to the inventory listing. The licensee's inventory of high enriched uranium consisted of solution, scrap, plated parts, and fission counters. The low enriched uranium inventory consisted of solution and metal chopstock.

The inspector verified that the licensee's four PuBe neutron sources and one Pu-238-beryllium neutron source had been leak tested by the licensee in accordance with the requirements of his licensee condition.

9. 85216 - Records and Reports

No violations were identified.

The inspection results were attained through a 100% audit of Material Status Reports (NRC-Form 742) submitted for the period April 1, 1977 through March 31, 1982, to verify compliance with 10 CFR 70.53.

A material balance summary for the period covered is attached as Exhibit I.

EXHIBIT I

Westinghouse Electric Corporation

Docket No. 70-184 License No. SNM-182

Material Balance for Period: April 1, 1977 - March 31, 1982

Reporting Identification Symbol: ZYN

Reporting Unit: grams

	<u>Enriched Uranium</u>		<u>Plutonium</u>	
	<u>Element</u>	<u>Isotope</u>	<u>Element</u>	<u>Isotope</u>
Beginning Inventory (4/1/77)	360	264	284	263
Additions:				
Receipts	<u>115</u>	<u>108</u>	<u>- 0 -</u>	<u>- 0 -</u>
Material to Account for	<u>475</u>	<u>372</u>	<u>284</u>	<u>263</u>
Removals:				
Shipments	198	177	- 0 -	- 0 -
Inventory Difference*	<u>7</u>	<u>8</u>	<u>- 0 -</u>	<u>- 0 -</u>
Total Removals	205	185	- 0 -	- 0 -
Ending Inventory (3/31/82)	<u>270</u>	<u>187</u>	<u>284</u>	<u>263</u>
Material Accounted for	<u>475</u>	<u>372</u>	<u>284</u>	<u>263</u>

* Due to rounding.