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U. S. ATOMIC ENERGY COMMISSION
DIRECTORATE OF REGULATORY OPERATIONS
REGION I

RO Inspection Report No.: 74-15 Docket No.: 50-219
Licensee: Jersey Central Power and Light Company License No.: DPR-16
Oyster Creek Nuclear Generating Priority: C.
Station Category: IV

Location: Forked River, New Jersey

Type of Licensee: Power Reactor

Type of Inspection: SNM Control - Unannounced

Dates of Inspection: September 26-27, 1974

Inspection Period Covered: _____

Dates of Previous Inspection: November 29, 1973

Reporting Inspector: J. G. Partlow 10/15/74
DATE

DATE

Accompanying Inspectors: NONE _____
DATE

DATE

Other Accompanying Personnel: NONE _____
DATE

Reviewed By: W. G. Martin 10/15/74
W. G. Martin, Chief, Materials and Plant Protection Branch
DATE

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SUMMARY OF FINDINGS

Enforcement Action

A. Violation

Failure to conduct a physical inventory of all SNM at least once every twelve months as required by 10 CFR 70.51(d).

Licensee Action on Previously Identified Enforcement Items

- A. Previous violations concerning the documentation of physical inventories and the maintenance of current SNM control procedures were examined and found to be corrected.

Design Changes

None

Unusual Occurrences

None

Other Significant Findings

None

Management Interview

A management interview was held upon completion of the inspection. The following personnel were present:

USAEC

J. G. Partlow

JCP&L

- D. A. Ross, Manager of Nuclear Generating Stations
- J. T. Carroll, Station Superintendent
- D. L. Reeves, Chief Engineer
- C. Fickeissen, Technical Supervisor

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Mr. Ross and Mr. Carroll were located at Jersey Central Headquarters in Morristown and participated in the meeting via amplified telephone. (The inspection was unannounced; the licensee has an internal requirement that Mr. Ross attend all exit interviews).

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DETAILS

1. Persons Contacted

C. Fickeissen, Technical Supervisor
E. J. Growney, Technical Engineer
D. L. Reeves, Chief Engineer

2. Scope

- a. The inspection was conducted in accordance with PI-9100. The last full SNM control inspection was conducted in March, 1972. This inspection covered the period from January 1, 1972 thru June 30, 1974.
- b. A special inspection was conducted on November 29, 1973, to gather burnup/production data for use in a proposed BNWL procedure. Since the burnup/production data for Oyster Creek was examined at that time (See Report 73-20), this area was not included in the current inspection scope.

3. Discussion of Findings

- a. Physical Inventories. The licensee has conducted the following recent physical inventories:
 - (1) Reactor Core. Inventoried on May 16, 1972, May 16, 1973, and May 21, 1974, incident to refueling outages.
 - (2) Spent Fuel Pool. Inventoried on January 28, 1974 and August 1, 1974.
 - (3) New Fuel Vault. Not recently inventoried. New fuel was initially placed in the vault in March, 1974. A physical inventory is required prior to April, 1975.
 - (4) Miscellaneous Fuel Pins. The licensee holds about twelve fuel pins resulting from on-site reconstitution in 1972. They have been inventoried on July 10, 1972 and January 15, 1973, but were omitted from the inventory of the MBA on January 28, 1974. The licensee was, therefore, found to be in violation of 10 CFR 70.51(d).

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b. Written SNM Control Procedures

- (1) Site Operating Procedure 1002 covers procedures for the control of SNM. These procedures were revised and reissued in April, 1973. The written procedures appear to satisfy the broad requirement of 10 CFR 70.51 and the procedures are being carried out as written.
- (2) As of the inspection date, the Technical Supervisor (who is responsible for SNM control) had not yet seen a copy of ANSI Standard N15.8 and Regulatory Guide 5.29 on NMC Systems for Nuclear Power Plants. The licensee was advised to obtain copies of these documents and it was recommended that their written procedures be reviewed against this new criteria.

c. Records and Reports

- (1) All SNM control records for the period of inspection were reviewed and found to be acceptable. Forms AEC-741, Material Transaction Reports, are being properly administered.
- (2) One possible discrepancy was noted in the licensee's Material Status Reports for the period. In August, 1972, General Electric (the fuel supplier) issued transaction documents YLJ-YHA-7 and 8 which cancelled the SNM values previously given in transaction 1-6 and substituted new values to be used. The licensee entered the difference as a correction to receipts on his Material Status Report for the second half of 1972. The audit of these transactions by the AEC inspector indicates that the correction values for U-235 were in error. The licensee agreed to our request that he review the transactions involved and, if found necessary, revise their next MSR to make it match the results of the AEC audit.

d. SNM Activity

- (1) A material balance summary for the period January 1, 1972 thru June 30, 1974 is presented in Exhibits I and II.

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- (2) The next refueling outage is scheduled for March, 1975. It will consist of replacing 112 fuel elements. At June 30, the inventory consisted of:

560 elements in the core
380 elements and 11 pins in the SFP
11 elements in the New Fuel Vault

Twenty-nine elements are to be received in the fall of 1974, and seventy-two elements in early 1975.

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Material Balance Summary

Enriched Uranium

	<u>U</u>	<u>Grams</u>
		<u>U-235</u>
Beginning Inventory 1/1/72	112,463,824	1,551,601
Receipts	68,627,650	1,807,132 ⁽¹⁾
Shipments	183,197	4,846
Burn-up	1,589,529	806,913
Ending Inventory 6/30/74	179,318,748	2,546,974

Note 1: AEC audit of transaction documents indicates that receipts are overstated by 334 grams U-235. See Report Details.

EXHIBIT I

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Material Balance Summary

Plutonium

	<u>Element</u>	<u>Grams</u>	<u>Isotope</u>
Beginning Inventory 1/1/72	455,717		370,394
Production	396,603		293,694
Ending Inventory 6/30/74	852,320		664,088

EXHIBIT II