

U.S. NUCLEAR REGULATORY COMMISSION
REGION I

Report No. 50-352/88-11

Docket No. 50-352

License No. NPF-39

Licensee: Philadelphia Electric Company
2301 Market Street
Philadelphia, Pennsylvania

Facility Name: Limerick Generating Station, Unit 1

Inspection At: 2301 Market Street, Philadelphia, Pennsylvania

Inspection Conducted: April 19, 1988

Type of Inspection: Routine, Unannounced Material Control and Accounting

Inspector:

A. Della Ratta, Safeguards Auditor

5-23-88

date

Approved by:

R. R. Keimig, Chief, Safeguards Section, DRSS

5-23-88

date

Inspection Summary: Unannounced Material Control and Accounting Inspection on April 19, 1988 (Report No. 50-352/88-11)

Areas Inspected: Organization and operation, records, and reports.

Results: The licensee was in compliance with NRC requirements in the areas inspected.

DETAILS

1. Key Persons Contacted

W. Lee, Senior Engineer, Fuel Management Section
L. Andres, Technical Assistant, Fuel Management Section

2. Material Control and Accounting

This was an off-site inspection of the Limerick Generating Station Unit 1 records and reports generated and maintained by the Fuel Management Section of the Philadelphia Electric Company corporate office located in Philadelphia, Pennsylvania. The records and reports that are generated and maintained at the Limerick Generating Station, Unit 1 will be reviewed during a future inspection.

a. Organization and Operation

The inspector interviewed licensee management personnel and reviewed the licensee's "Procedure for Special Nuclear Material Accounting", A-44, Revision 4, effective March 28, 1988. The procedure contained adequate written guidance for SNM control and accounting.

b. Records and Reports

The inspector reviewed the licensee's records, reports, and source data. All Material Balance Reports (DOE/NRC Form-742), submitted by the licensee for the period September 30, 1984 to March 31, 1988 were reviewed, as were all Nuclear Material Transaction Reports (DOE/NRC Form-741). Total uranium and U-235 fission, transmutation and plutonium production, and decay records were also reviewed. No discrepancies were noted.

Exhibits I and II of this report summarize the licensee's nuclear material activities for the period of August 24, 1984 to March 31, 1988.

3. Exit Interview

The inspector met with the licensee representatives listed in paragraph 1 on April 19, 1988 and summarized the scope and findings of the inspection.

At no time during this inspection was written material provided to the licensee by the inspector.

EXHIBIT I

Philadelphia Electric Company

Limerick Generating Station Unit 1

Docket No. 50-352 License No. NPF-39

Material Balance for Period: August 24, 1984 - March 31, 1988

Reporting Identification Symbol: XIR

Reporting Unit: grams

	<u>Enriched Uranium</u>		<u>Normal Uranium</u>	
	<u>Element</u>	<u>Isotope</u>	<u>Element</u>	<u>Isotope</u>
Beginning Inventory: (August 24, 1984)	124,350,919	2,500,787	17,089,377	124,048
Additions:				
From Normal Uranium				
Account:	17,089,377	124,048	---0---	---0---
Receipts:	<u>49,171,347</u>	<u>1,575,653</u>	<u>---0---</u>	<u>---0---</u>
Material to Account for:	<u>190,611,643</u>	<u>4,200,488</u>	<u>17,089,377</u>	<u>124,048</u>
Removals:				
To Enriched Uranium Account:	---0---	---0---	17,089,377	124,048
Shipments:	3	2	---0---	---0---
Degradation to Other				
Materials:	55,046,835	409,321	---0---	---0---
Fission and Transmutation:	<u>2,601,177</u>	<u>1,523,530</u>	<u>---0---</u>	<u>---0---</u>
Total Removals:	<u>57,648,015</u>	<u>1,932,853</u>	<u>17,089,377</u>	<u>124,048</u>
Ending Inventory: (March 31, 1988)	<u>132,963,628</u>	<u>2,267,635</u>	<u>---0---</u>	<u>---0---</u>
Material Accounted For:	<u>190,611,643</u>	<u>4,200,488</u>	<u>17,089,377</u>	<u>124,048</u>

EXHIBIT II

Philadelphia Electric Company

Limerick Generating Station Unit 1

Docket No. 50-352 License No. NPF-39

Material Balance for Period: August 24, 1984 - March 31, 1988

Reporting Identification Symbol: XIR Reporting Unit: grams

	Plutonium		Depleted Uranium	
	<u>Element</u>	<u>Isotope</u>	<u>Element</u>	<u>Isotope</u>
Beginning Inventory: (August 24, 1984)	---0---	---0---	---0---	---0---
Additions:				
Production:	913,437	712,156	---0---	---0---
From Other Materials:	---0---	---0---	55,048	409
Receipts:	---0---	---0---	---0---	---0---
Material to Account for:	<u>913,437</u>	<u>712,156</u>	<u>55,048</u>	<u>409</u>
Removals:				
Fission and Transmutation:	---0---	---0---	555	143
Shipments:	---0---	---0---	---0---	---0---
Decay:	759	759	---0---	---0---
Total Removals:	<u>759</u>	<u>759</u>	<u>555</u>	<u>143</u>
Ending Inventory: (March 31, 1988)	<u>912,678</u>	<u>711,397</u>	<u>54,493</u>	<u>266</u>
Material Accounted For:	<u>913,437</u>	<u>712,156</u>	<u>55,048</u>	<u>409</u>