

U. S. NUCLEAR REGULATORY COMMISSION

REGION I

Report No. 50-333/82-20

Docket No. 50-333 License No. DPR-59 Safeguards Group IV

Licensee: Power Authority of the State of New York  
P.O. Box 41  
Lycoming, New York 13093

Facility Name: James A. FitzPatrick Nuclear Power Plant

Inspection At: Scriba, New York

Inspection Conducted: September 14 - 15, 1982

Date of Last Material Control and Accounting Inspection: September 12, 1979

Type of Inspection: Unannounced Material Control and Accounting

Inspectors:

I. Cohen, Chemist

10/15/82  
date

E. Wolther, Auditor

10/15/82  
date

Approved by:

A. T. Gody, Chief, Safeguards Section,  
Technical Programs Branch

10.15.82  
date

Inspection Summary: Inspection on September 14 - 15, 1982 (Report No. 50-233/82-20)

Areas Inspected: Routine, unannounced inspection of special nuclear material control and accounting, including: Facility Organization and Operation; Shipping and Receiving; Storage and Internal Control; Physical Inventory; and Records and Reports. The inspection involved 24 inspector-hours on site by two NRC inspectors and was begun during regular hours.

Results: The licensee was in compliance with NRC requirements for in the areas examined during the inspection.

## Details

### 1. Key Persons Contacted

- \* C. A. McNeill, Jr., Resident Manager
- \* R. Converse, Operations Superintendent
- \* J. A. Gray, Jr., Acting Director, Nuclear Licensing
- \* J. D. Tolbert, Assistant Engineer
- \* L. Doerflein, NRC Resident Inspector
- \* J. Linville, Senior NRC Resident Inspector

The inspectors also interviewed other licensee personnel.

\*Denotes attendance at the exit interview.

### 2. 30703 - Exit Interview

The inspectors met with the licensee representatives (denoted in paragraph 1) at the conclusion of the inspection on September 15, 1982. The scope and findings of the inspection were summarized.

### 3. 92713 - Independent Inspection Effort

No violations were identified.

The inspectors toured the facility and determined that the licensee's possession and use of special nuclear material (SNM) was in accordance with NRC requirements.

### 4. 85102 - Material Control and Accounting

#### a. Facility Organization and Operation

No violations were identified.

The inspection results were obtained through discussions with licensee personnel and review of procedures contained within Reactor Analyst Procedures, Volume 7.2, dated September 1, 1982. The procedures were adequate for control of SNM.

#### b. Shipping and Receiving

No violations were identified.

The inspector determined that the licensee had established procedures to assure that all SNM received or shipped was accurately accounted for.

c. Storage and Internal Control

No violations were identified.

The licensee established a system of storage and internal control, which provided for current knowledge of the quantity and identity of all SNM within the facility.

d. Physical Inventory

No violations were identified.

The inspector reviewed supporting records which showed physical inventories were conducted at least annually, as required by 10 CFR 70.51(d). In addition, the inspector reviewed supporting records which reconciled with the quantity of SNM shown as of March 31, 1982.

e. Records and Reports

No violations were identified.

The inspection results were attained through an audit of all material status reports (Form NRC-742) submitted as required by 10 CFR 70.53 for the period April 1, 1979, through March 31, 1982. Material balances for the period reviewed are attached as Exhibits I and II.

EXHIBIT I

James A. FitzPatrick Nuclear Power Plant

Docket No. 50-333 License No. DPR-59

Material Balance for Period: April 1, 1979 - March 31, 1982

Reporting Identification Symbol: YZQ 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: (April 1, 1979)	152,356,314	2,082,329	- 0 -	- 0 -
Additions:				
From Normal Uranium				
Account:	2,355,055	16,973	- 0 -	- 0 -
Receipts:	<u>61,291,935</u>	<u>1,807,169</u>	<u>2,355,055</u>	<u>16,973</u>
Material to Account				
For:	<u>216,003,304</u>	<u>3,906,471</u>	<u>2,355,055</u>	<u>16,973</u>
Removals:				
To Enriched Uranium				
Account:	- 0 -	- 0 -	- 0 -	- 0 -
Shipments:	- 0 -	- 0 -	- 0 -	- 0 -
Degradation to				
Other Materials:	32,069,257	172,530	2,355,055	16,973
Fission and Trans-				
mutation:	1,851,741	959,989	- 0 -	- 0 -
Inventory Differ-				
ence:	<u>(3)</u>	<u>7,917</u>	<u>- 0 -</u>	<u>- 0 -</u>
Total Removals	33,920,995	1,140,436	2,355,055	16,973
Ending Inventory:				
(March 31, 1982)	<u>182,082,309</u>	<u>2,766,035</u>	<u>- 0 -</u>	<u>0 -</u>
Material Accounted				
For:	<u>216,003,304</u>	<u>3,906,471</u>	<u>2,355,055</u>	<u>16,973</u>

EXHIBIT II

James A. FitzPatrick Nuclear Power Plant

Docket No. 50-333 License No. DPR-59

Material Balance for Period: April 1, 1979 - March 31, 1982

Reporting Identification Symbol: YZQ Reporting Unit: grams

	<u>Plutonium</u> <u>Element</u>	<u>Isotope</u>
Beginning Inventory: (April 1, 1979)	817,798	635,118
Additions:		
Production	410,505	276,572
Receipts:	<u>- 0 -</u>	<u>- 0 -</u>
Material to Account For:	<u>1,228,303</u>	<u>911,690</u>
Removals:		
Shipments:	- 0 -	- 0 -
Decay:	<u>6,240</u>	<u>6,141</u>
Total Removals:	<u>6,240</u>	<u>6,141</u>
Ending Inventory: (March 31, 1982)	<u>1,222,063</u>	<u>905,549</u>
Material Accounted For:	<u>1,228,303</u>	<u>911,690</u>