

U. S. NUCLEAR REGULATORY COMMISSION
Region I

Report No. 50-220/82-18

Docket No. 50-220 License No. DPR-63 Safeguards Group IV

Licensee: Niagara Mohawk Power Corporation

300 Erie Boulevard West

Syracuse, New York 13202

Facility Name: Nine Mile Point, Unit I

Inspection At: Oswego, New York

Inspection Conducted: September 15-16, 1982

Date of Last Material Control and Accounting Inspection: September 27, 1979

Type of Inspection: Unannounced Material Control and Accounting

Inspectors: I. Cohen 10-6-82
I. Cohen, Chemist date signed

E. Woltner 10-6-82
E. Woltner, Auditor date signed

Approved By: A. T. Gody 10/7/82
A. T. Gody, Chief, Safeguards Section, date signed
Technical Programs Branch

Inspection Summary:
Unannounced Inspection on September 15-16, 1982 (Report No. 50-220/82-18)

Areas Inspected: Routine inspection of 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 onsite by two regional based NRC inspectors and was begun during regular hours.

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

DETAILS

1. Key Persons Contacted

- *T. Roman, Plant Superintendent
- *W. Drews, Technical Superintendent
- *J. Conway, Unit Reactor Analyst
- *J. Spadafore, Superintendent of Technical Services
- *S. Hudson, 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 16, 1982 and summarized the scope and findings.

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 the Special Nuclear Material Control Manual (APN-18). The manual contained adequate procedures for the control of special nuclear material.

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 that 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, II, and III.

EXHIBIT I

Period April 1, 1979 - March 31, 1982

Material Balance Summary (Nine Mile Point, Unit I)
Enriched Uranium

RIS:YGX

	<u>Element</u>	<u>Grams</u>	<u>Isotope</u>
Beginning Inventory @ 4/1/79	251,937,651		3,254,543
From Other Materials	2,002,601		14,487
Receipts	<u>34,372,387</u>		<u>984,006</u>
Material to Account For	<u>288,312,639</u>		<u>4,253,036</u>
Removals:			
Shipments	22,535		657
Burn-up	<u>1,997,965</u>		<u>1,075,005</u>
Total Removals	2,020,500		1,075,662
Ending Inventory @ 3/31/82	<u>286,292,139</u>		<u>3,177,374</u>
Material Accounted For	<u>288,312,639</u>		<u>4,253,036</u>

EXHIBIT II

Period April 1, 1979 - March 31, 1982

Material Balance Summary (Nine Mile Point, Unit I)
Plutonium

RIS:YGX

	<u>Element</u>	<u>Grams</u>	<u>Isotope</u>
Beginning Inventory @ 4/1/79	1,411,258		1,045,669
Receipts	0		0
Production	<u>455,110</u>		<u>319,605</u>
Material to Account For	<u>1,866,368</u>		<u>1,365,274</u>
Removals:			
Shipments	0		0
Decay	<u>12,866</u>		<u>12,866</u>
Total Removals	12,866		12,866
Ending Inventory @ 3/31/82	<u>1,853,502</u>		<u>1,352,408</u>
Material Accounted For	<u>1,866,368</u>		<u>1,365,274</u>

EXHIBIT III

Period April 1, 1979 - March 31, 1982

Material Balance Summary (Nine Mile Point, Unit 1)
Normal Uranium

RIS:YGX

	<u>Element</u>	<u>Grams</u>	<u>Isotope</u>
Beginning Inventory @ 4/1/79	958,721		8,095
Receipts	<u>1,043,880</u>		<u>7,526</u>
Material to Account For	<u>2,002,601</u>		<u>15,621</u>
Removals:			
Degradation to Other Materials	2,002,601		15,621
Ending Inventory 3/31/82	<u>0</u>		<u>0</u>
Material Accounted For	<u>2,002,601</u>		<u>15,621</u>