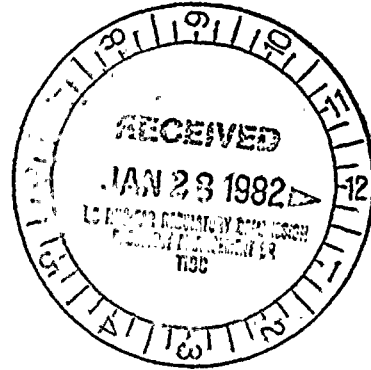


DEC 14 1981

Docket No. 50-220

IE HQ FILE COPY.

Niagara Mohawk Power Corporation  
ATTN: Mr. T. E. Lempges  
Vice President  
Nuclear Generation  
300 Erie Boulevard West  
Syracuse, New York 13202



Gentlemen:

Subject: Inspection No. 50-220/81-28

This refers to the routine, safety inspection conducted by Mr. S. Hudson of this office on November 1-30, 1981, at Nine Mile Point, Unit 1, Scriba, New York of activities authorized by NRC License No. DPR-63 and to the discussions of our findings held by Mr. S. Hudson with Mr. T. Roman of your staff at the conclusion of the inspection.

Areas examined during this inspection are described in the Office of Inspection and Enforcement Inspection Report which is enclosed with this letter. Within these areas, the inspection consisted of selective examinations of procedures and representative records, interviews with personnel, and observations by the inspector.

Our inspector also verified the steps you had taken to correct the item of noncompliance brought to your attention in a letter dated September 24, 1981. We have no further questions regarding your action at this time.

Within the scope of this inspection, no items of noncompliance were observed.

In accordance with 10 CFR 2.790 of the Commission's regulations, a copy of this letter and the enclosed inspection report will be placed in the NRC's Public Document Room. If this report contains any information that you (or your contractors) believe to be exempt from disclosure under 10 CFR 9.5(a)(4), it is necessary that you (a) notify this office by telephone within ten (10) days from the date of this letter of your intention to file a request for withholding; and (b) submit within 25 days from the date of this letter a written application to this office to withhold such information. Consistent with section 2.790(b)(1), any such application must be accompanied by an affidavit executed by the owner of the information which identifies the

*HR*  
RI:DRPI:SDH  
JWA  
12/07/81

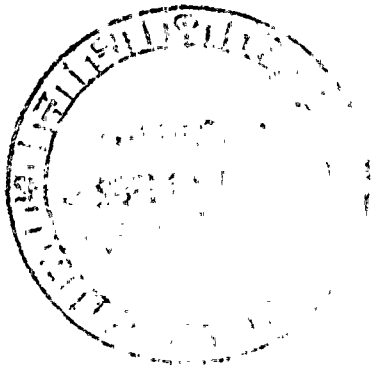
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DEC 14 1981

document or part sought to be withheld, and which contains a full statement of the reasons on the basis which it is claimed that the information should be withheld from public disclosure. This section further requires the statement to address with specificity the considerations listed in 10 CFR 2.790(b)(4). The information sought to be withheld shall be incorporated as far as possible into a separate part of the affidavit. If we do not hear from you in this regard within the specified periods noted above, the report will be placed in the Public Document Room. The telephone notification of your intent to request withholding, or any request for an extension of the 10 day period which you believe necessary, should be made to the Supervisor, Files, Mail and Records, USNRC Region I, at (215) 337-5223.

No reply to this letter is required. Your cooperation with us in this matter is appreciated.

Sincerely,

Original signed By:

*C. Brunner*

*for* Richard W. Starostecki, Director,  
Division of Resident and Project  
Inspection

Enclosure:  
Office of Inspection and Enforcement  
Inspection Report Number 50-220/81-28

cc w/encl:  
T. Perkins, General Superintendent, Nuclear Generation  
T. Roman, Station Superintendent  
J. Aldrich, Supervisor, Operations  
W. Drews, Technical Superintendent  
E. B. Thomas, Jr., Esquire  
Public Document Room (PDR)  
Local Public Document Room (LPDR)  
Nuclear Safety Information Center (NSIC)  
NRC Resident Inspector  
State of New York

bcc w/encl:  
Region I Docket Room (with concurrences)  
Chief, Operational Support Section (w/o encls)

DEC 14 1981

Chief, Operational Support Section (w/o encls)  
Region I Docket Room (with concurrences)  
lcc w/encl:

U.S. NUCLEAR REGULATORY COMMISSION  
OFFICE OF INSPECTION AND ENFORCEMENT

See Page 2 for  
DCS numbers

Region I

Report No. 81-28  
Docket No. 50-220  
License No. DPR-63 Priority -- Category C  
Licensee: Niagara Mohawk Power Corporation  
300 Erie Boulevard West  
Syracuse, New York 13202

Facility Name: Nine Mile Point Nuclear Station, Unit 1

Inspection at: Scriba, New York

Inspection conducted: November 1-30, 1981

Inspectors: S. D. Hudson 12/8/81  
S. D. Hudson, Resident Inspector date signed  
L. T. Doerflein 12/8/81  
L. T. Doerflein, Resident Inspector date signed

Approved by: H. B. Kister 12/14/81  
H. B. Kister, Chief, Reactor Projects date signed  
Section 1C

Inspection Summary:

Inspection on November 1-30, 1981 (Inspection Report No. 50-220/81-28)

Areas Inspected: Routine, onsite regular and backshift inspections by the resident inspectors (91 hours). Areas inspected included: licensee action on previous inspection findings, operational safety verification, physical security, plant tours, surveillance tests, maintenance activities, safety system verification, review of Licensee Event Reports, and review of periodic reports, and Site Operations Review Committee activities.

Results: No items of noncompliance were identified in the areas examined.

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50220-811020





DETAILS1. Persons Contacted

J. Aldrich, Supervisor, Operations  
K. Dahlberg, Site Maintenance Superintendent  
W. Drews, Technical Superintendent  
J. Duell, Supervisor, Chemistry and Radiation Protection  
E. Leach, Superintendent of Chemistry and Radiation Management  
R. Orr, Supervisor, Nuclear Security  
T. Perkins, General Superintendent, Nuclear Generation  
T. Roman, Station Superintendent  
B. Taylor, Supervisor, Instrument and Control

The inspector also interviewed and talked with other licensee personnel during the course of the inspection including shift supervisors, administrative, operations, health physics, security, instrument and control, and contractor personnel.

2. Licensee Action on Previous Inspection Findings

(Closed) ITEM OF NONCOMPLIANCE (81-21-01): Failure to check for contamination prior to leaving the restricted area. The inspector reviewed Radiation Survey Log #58591 dated August 13, 1981 and verified that no contamination was found outside the turbine building track bay. Through discussion with a licensee representative, the inspector learned that this exit point and the turbine building truck bay will no longer be used as a normal access point to or from the building during normal plant operations. Gates are installed across both roll up doors. These doors may be used for emergency exits and may be used during plant outages. A portable personnel monitor is provided by each door.

(Closed) INSPECTOR FOLLOW ITEM (81-21-02): The inspector reviewed NI-ST-Q7, "Manual Scram Instrument Channel Test," Revision 3, dated March 4, 1981 and noted that a temporary change had been made on November 19, 1981. This change now requires verification of proper computer response during this surveillance test. The temporary change was approved by the Site Operations Review Committee on November 24, 1981.

(Closed) INSPECTOR FOLLOW ITEM (81-27-02): The inspector reviewed Quality Control Surveillance Report #W81-22 issued November 2, 1981 to determine that a report of the quality control inspection had been made to the appropriate on-site supervisors. In this report, no items requiring corrective actions were identified.

3. Operation Safety Verificationa. Control Room Observations

Routinely throughout the inspection period, the inspector independently verified plant parameters and equipment availability of engineered safeguard features against a plant specific checklist

The following information was obtained from a review of the files of the [redacted] and [redacted] on [redacted] and [redacted]. The information is being provided to you for your information only and should not be disseminated to other personnel.

The [redacted] was born on [redacted] at [redacted]. He is currently residing at [redacted].

**Summary of Activities**

The [redacted] has been active in [redacted] since [redacted]. He has been involved in [redacted] and [redacted] activities.

The [redacted] has been identified as a [redacted] and has been active in [redacted] since [redacted].

The [redacted] has been identified as a [redacted] and has been active in [redacted] since [redacted].

**Conclusion**

The [redacted] is considered to be a [redacted].

This information is being provided to you for your information only and should not be disseminated to other personnel.

to ensure the following items were observed:

- Proper control room manning;
- Availability and proper valve line-up of safety systems;
- Availability and proper alignment of onsite and offsite emergency power sources;
- Reactor control panel indications and bypass switches;
- Core thermal limits;
- Primary containment temperature and pressure;
- Drywell to suppression chamber differential pressure;
- Stack monitor recorder traces; and
- Liquid poison tank level and concentration.

Selected lit annunciators were discussed with control room operators to verify that the reasons for them were understood and corrective action, if required, was being taken.

Shift turnovers were observed to ensure proper control room and shift manning on both day and back shifts. Shift turnover checklists and log review by the oncoming and off-going shifts were also observed by the inspector.

The inspector directly observed portions of routine power operations to ensure adherence to approved procedures.

On November 12, 1981, the inspector noted that the thermocouple downstream of Electromatic Relief Valve #112 was not indicating on the computer hourly log. The licensee was already aware of the malfunction and stated the acoustic monitor for relief valve #112 had been tested satisfactorily. The licensee will report this malfunction to the NRC as LER 81-52.

On November 18, 1981, about 9:00 a.m., the inspector noted the following discrepancy between the meter reading and the computer point for each main steam line radiation detector.

<u>Detector #</u>	<u>Computer Point</u>	<u>Meter Reading</u>	<u>Computer Indication</u>
111	E469	800	873
121	E470	800	705
112	E471	1000	626
122	E472	1000	1634

THE UNIVERSITY OF CHICAGO

PHYSICS DEPARTMENT

5720 S. UNIVERSITY AVE. CHICAGO, ILL. 60637

TEL: (773) 835-3100 FAX: (773) 835-3101

WWW.PHYSICS.UCHICAGO.EDU

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PHYSICS 435

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The licensee was already aware of this discrepancy and is in the process of correcting it. The licensee actions in this matter will be reviewed during a future inspection. (50,220/81-28-01)

b. Review of Logs and Operating Records

The inspector reviewed the following logs and instructions for the period November 1 through November 30, 1981:

- Control Room Log Book
- Station Shift Supervisor's Log Book
- Station Shift Supervisor's Instructions
- Licensee Event Report Log
- Reactor Operating Log

The logs and instructions were reviewed to:

- Obtain information on plant problems and operation;
- Detect changes and trends in performance;
- Detect possible conflicts with technical specifications or regulatory requirements;
- Determine that records are being reviewed as required;
- Assess the effectiveness of the communications provided by the logs and instructions; and
- Determine that the reporting requirements of technical specifications are met.

No items of noncompliance were identified.

4. Observation of Physical Security

The inspector made observations and verified during regular and off-shift hours that selected aspects of the plant's physical security system were in accordance with regulatory requirements, physical security plan and approved procedures. The following observations relating to physical security were made:

- The security force on both regular and off-shifts were properly manned and appeared capable of performing their assigned functions.

THE STATE OF TEXAS, COUNTY OF DALLAS, ss. I, the undersigned, a Notary Public in and for said State, do hereby certify that the within and foregoing is a true and correct copy of the original of the same as the same appears from the records of said County.

Notary Public in and for the State of Texas

Witness my hand and seal of office at Dallas, Texas, this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_.

Notary Public in and for the State of Texas

My commission expires \_\_\_\_\_

My office is located at \_\_\_\_\_

My residence is at \_\_\_\_\_

My telephone number is \_\_\_\_\_

My commission was issued to me on \_\_\_\_\_

My commission was issued by \_\_\_\_\_

My commission was issued for \_\_\_\_\_

My commission was issued for the purpose of \_\_\_\_\_

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- Protected area barriers were intact - gates and doors closed and locked if not attended.
- Communication checks were conducted. Proper communication devices were available.
- Isolation zones were free of visual obstructions and objects that could aid an intruder in penetrating the protected area and during periods of darkness, the protected area had sufficient illumination.
- Persons and packages were checked prior to entry into the protected area.
- Vehicles were properly authorized, searched, and escorted or controlled within the protected area.
- Persons within the protected area displayed photo-identification badges, persons in vital areas were properly authorized, and persons requiring escort were properly escorted.
- Compensatory measures were implemented during periods of equipment failure.

No items of noncompliance were identified.

#### 5. Plant Tours

During the inspection period, the inspector made multiple tours of plant areas to make a independent assessment of equipment conditions, radiological conditions, safety and adherence to regulatory requirements. The following areas were among those inspected:

- Turbine Building
- Auxiliary Control Room
- Vital Switchgear Rooms
- Yard Areas
- Radwaste Area
- Diesel Generator Rooms
- Screen House
- Reactor Building

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The following items were observed or verified:

a. Radiation Protection:

- Personnel monitoring was properly conducted.
- Randomly selected radiation protection instruments were calibrated and operable.
- Radiation Work Permits (RWP) requirements were being followed.
- Personnel monitoring was properly conducted.
- Randomly selected radiation protection instruments were calibrated and operable.
- Radiation Work Permit requirements were being followed.
- Area surveys were properly conducted and the Radiation Work Permits were appropriate for the as-found conditions. The inspector witnessed the performance of an air sample for radiation survey #60564 in the Radwaste Building elevation 229 ft. and contamination survey for radiation survey #60727 in the NRC trailer.

b. Fire Protection:

- Randomly selected fire extinguishers were accessible and inspected on schedule.
- Fire doors were unobstructed and in their proper position.
- Ignition sources and combustibles materials were controlled in accordance with the licensee's approved procedures.

c. Equipment Controls:

- Jumpers and equipment tag outs did not conflict with Technical Specification requirements.
- Conditions requiring the use of jumpers received prompt licensee attention.
- Selected jumpers had been properly installed and removed.

d. Vital Instrumentation:

Selected instruments appeared functional and demonstrated parameters within Technical Specification Limiting Conditions for Operation.

1. Introduction

The purpose of this document is to provide a comprehensive overview of the project's objectives and scope.

This document is intended for the use of project management and team members. It contains sensitive information and should be handled accordingly.

The project is a multi-phase initiative designed to improve operational efficiency and reduce costs.

The primary goal is to identify and implement best practices across all departments.

Key deliverables include a detailed project plan, regular status reports, and a final evaluation report.

The project team consists of representatives from all major functional areas.

The project will be managed using a structured approach, including regular meetings and clear communication channels. The project manager will be responsible for ensuring that all tasks are completed on time and within budget.

2. Objectives

The main objective is to achieve a 15% reduction in operational costs within the next six months.

Secondary objectives include improving process flow and increasing employee productivity.

The project will also aim to enhance the overall quality of our services and customer satisfaction.

3. Scope

The project scope includes all core business operations and support functions.

It does not include external marketing activities or non-core business units.

The project will be limited to the geographical region of North America.

4. Conclusion

The project is a critical initiative for the organization's long-term success. It requires the full support and cooperation of all stakeholders. We are confident that the project will be completed successfully and will bring significant benefits to the organization.

e. Radioactive Waste System Controls:

- Gaseous releases were monitored and recorded.
- The inspector reviewed the Weekly Stack Gas Isotopic Analysis and Offgas Isotopic Analysis performed on November 9 and 30, 1981 to determine that gaseous releases were periodically sampled and did not exceed Technical Specification limits.

f. Housekeeping:

Plant housekeeping and cleanliness practices were in accordance with approved licensee programs.

No items of noncompliance were identified.

6. Surveillance Tests

During the inspection period, the inspector witnessed the performance of various surveillance tests. Observations were made to verify that:

- Surveillance procedures conform to technical specification requirements and have been properly approved.
- Test instrumentation is calibrated.
- Limiting conditions for operations for removing equipment from service are met.
- Testing is performed by qualified personnel.
- Surveillance schedule is met.
- Test results met technical specification requirements.
- Appropriate corrective action is initiated, if necessary.
- Equipment is properly restored to service following the test.

The following tests were included in this review:

- NI-ST-S0, "Shift Checks," Revision 6, dated October 6, 1981, performed on November 6, 1981.
- NI-ISP-RPS-TP, "Reactor Protection System-Main Steam Line Break," Revision 9, dated August 28, 1981, performed on November 13, 1981. The inspector witnessed the calibration of instrument #01-26F.
- NI-MST-R3, "Hydraulic Snubber Functional Test," Revision 2, dated March 16, 1981, performed on November 13, 1981 on snubber #29-HS-6.

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- N1-ISP-RPS-TP, "Reactor Protection System-Reactor Vessel Lo-Lo Level," Revision 9, dated August 28, 1981, performed on November 25, 1981. The inspector witnessed the calibration of instrument #36-04C.

No items of noncompliance were identified.

## 7. Plant Maintenance

The inspector examined portions of various safety related maintenance activities. Through direct observation and review of records, he determined that:

- Redundant components were tested to ensure operability prior to starting the work.
- These activities did not violate the limiting conditions for operation.
- Required administrative approvals and tag outs were obtained prior to initiating the work.
- Approved procedures were used or the activity was within the "skills of the trade".
- Appropriate radiological controls were properly implemented.
- Equipment was properly tested prior to returning it to service.

During this inspection period, the following activities were examined:

- Repair of snubber #29-HS-6
- Meter and relay calibration of Motor Generator (MG) sets #161 and #162. The inspector also witnessed the transfer of #11 Reactor Protection System Bus to its alternate power supply prior to the removal of #162 MG set from service.

No items of noncompliance were identified.

## 8. Safety System Operability Verification

On a sampling basis, the inspector directly examined selected safety system trains to verify that the systems were properly aligned in the standby mode. This examination included:

- Verification that each accessible valve in the flow path is in the correct position by either visual observation of the valve or remote position indication.

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- Verification that power supply breakers are aligned for components that must actuate upon receipt of an initiation signal.
- Visual inspection of the major components for leakage, proper lubrication, cooling water supply, and other general conditions that might prevent fulfillment of their functional requirements.
- Verification by observation that instrumentation essential to system actuation or performance is operational.
- Motor operated or air operated valves are not mechanically blocked and power is available as appropriate.
- There are no visual leakage paths between the containment and the isolation valves.

During this inspection period, the following systems were examined:

- Primary Containment Vacuum Relief
- Containment Spray System #11
- Core Spray System #11
- Emergency Diesel Generator (EDG) #102

The inspector noticed that although the fuel oil storage tank level indicator for EDG #102 was calibrated in February 1981, the indicator for EDG #103 fuel oil storage tank was last calibrated in October 1979. The inspector stated that since these indicators are used to obtain measurements required by Technical Specifications (i.e., minimum fuel oil supply), they should be periodically calibrated. The licensee acknowledged the inspector's concerns and stated procedures would be prepared to ensure that the indicators for both storage tanks will be calibrated annually. The licensee's action will be reviewed during a future inspection. (50-220/81-28-02)

No items of noncompliance were identified.

#### 9. Review of Licensee Event Reports (LER's)

The inspector conducted a review of LER's to determine that the reporting requirements had been met, the report was adequate to assess the event, the cause appeared accurate and was supported by details, corrective actions appeared appropriate, the LER form was properly completed, and generic applicability to other plants was not in question.

The inspector conducted a detailed review of LER's #80-01 thru 80-34 and 81-01 thru 81-47. (LER's #80-29, 81-02, 81-03 and 81-25 were not issued).

THE UNIVERSITY OF CHICAGO  
DEPARTMENT OF CHEMISTRY

REPORT OF THE COMMITTEE ON THE  
PROGRESS OF THE DEPARTMENT OF CHEMISTRY  
DURING THE YEAR 1954

BY THE COMMITTEE ON THE PROGRESS OF THE DEPARTMENT OF CHEMISTRY

CHICAGO, ILLINOIS, 1955

PRINTED BY THE UNIVERSITY OF CHICAGO PRESS

CHICAGO, ILLINOIS, 1955

UNIVERSITY OF CHICAGO PRESS

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The Department of Chemistry at the University of Chicago has during the year 1954 continued its tradition of excellence in research and teaching. The department has been fortunate in receiving several new appointments, and the work of the department has been enriched by the contributions of these new members. The department has also benefited from the continued efforts of its existing members, who have made significant contributions to the field of chemistry. The department's research program is broad and diverse, covering a wide range of chemical disciplines. The department's teaching program is also of high quality, and the department has been successful in attracting and retaining a large number of students. The department's financial position is strong, and the department has been able to maintain its high standards of research and teaching. The department's future is bright, and it is expected that it will continue to make significant contributions to the field of chemistry in the years ahead.

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In many cases, the inspector had previously examined the events at the time of the occurrence to determine that the requirements of the Limiting Conditions for Operations had been met and appropriate corrective action was initiated. The following LER's are discussed in previously issued inspection reports:

<u>LER #</u>	<u>Inspection Report #</u>
80-19	80-08
81-04	81-01
80-02, 80-06, 80-18, 80-20, 80-28, 80-30	81-02
81-08	81-12
81-17, 81-18	81-13
81-27	81-16
81-32, 81-33, 81-36	81-17
81-41	81-21, 81-22
81-44	81-24

The following LER's were selected for on-site followup to review the licensee's actions to prevent recurrence.

LER #80-07: Main Steam Isolation Valves (MSIV) failed to close. ISP-01, "MSIV Position Test Surveillance and Maintenance," Revision 1, dated April 21, 1981 now requires that the pilot valve for each MSIV be disassembled and cleaned once per cycle.

LER #81-09: Containment Spray Isolation Valve #122 failed to close. IMP-CI-SOV-1, "Repair of Solenoid Operated Valves which control Primary Containment Isolation Valves," Revision 0, dated September 15, 1981 now requires the pilot valve for each primary containment isolation valve be disassembled and cleaned. This maintenance procedure is placed on the instrument schedule to be performed once per cycle.

LER #81-30: Discrepancy in the trip setting of the Emergency Condenser Vent Monitors between the test signal and the actual signal. RTP-20, "Routine Calibration of Emergency Condenser Vent Monitors," Revision 2, dated June 29, 1981 now requires that the trip setting be confirmed with a Cobalt 60 source.

LER #81-34 and 81-39: MSIV #122 failed to close. In LER 81-39, the licensee stated that a preventative maintenance program for the air operated MSIV operators would be established. A licensee representative



stated that the program would be established prior to the next refueling. This item remains open pending NRC review of the licensee's action. (50-220/81-28-03)

No items of noncompliance were identified.

10. Review of Periodic Reports

The following reports were reviewed to verify that reporting requirements of the Technical Specifications are being met and that plant operations are being accurately reported:

-- Monthly Operating Report, October 1981.

No items of noncompliance were identified.

11. Site Operations Review Committee Activities

On November 10, 1981, the inspector attended a scheduled meeting of the Site Operations Review Committee. The inspector verified that a quorum was present and the committee's activities and meeting frequency satisfied Technical Specifications requirements. Subsequent to the meeting, the inspector verified that the committee's activities had been documented in written meeting minutes.

No items of noncompliance were identified.

12. Exit Interview

At periodic intervals during the course of the inspection, meetings were held with senior facility management to discuss the inspection scope and findings.

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