

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

REGION I

Report No. 80-05

Docket No. 50-410

License No. CPPR-112 Priority -- Category A

Licensee: Niagara Mohawk Power Corporation

300 Erie Boulevard, West

Syracuse, New York 13202

Facility Name: Nine Mile Point Nuclear Power Station, Unit 2

Inspection At: Scriba, New York

Inspection Conducted: June 17-19, 1980

Inspectors: R. Feil
R. Feil, Reactor Inspector

7-16-80
date

_____ date

_____ date

Approved by: R. W. McLaughlin
R. W. McLaughlin, Chief, Construction Projects
Section, RC&ES Branch

7-16-80
date

Inspection Summary:

Inspection on June 17-19, 1980 (Report Number 50-410/80-05)

Areas Inspected: Routine, unannounced inspection by a regional based inspector of licensee action on previous inspection findings, facility tour, observation of cadwelding on containment floor and wall. The inspection involved 27 inspector-hours onsite by one regional based inspector.

Results: No items of noncompliance were identified.



DETAILS

1. Persons Contacted

Niagara Mohawk Power Corporation (NMPC)

- *R. Dahlin, Corporate Construction Services
- *J. L. Dillon, Senior Site QA Representative (Acting)
- *G. J. Doyle, QA Engineer
G. Honors, Construction Engineer
- *R. L. Patch, QA Engineer
- *J. R. Savrini, Construction Engineer

Stone and Webster Engineering Corporation (SWEC)

- T. Britt, Senior Electrical QA Engineer
- T. S. Farrel, Construction Engineer
- *B. F. Gallagher, Senior Resident Engineer
- *C. E. Gay, Superintendent, Field QC
- *M. G. Pace, Assistant Project QA Engineer
- *J. E. Rogers, Chief, Office Engineer
- *L. E. Shea, Head, Site Engineering Office
- *F. M. Sheldon, Construction Engineer

* denotes those present at the exit interview

The inspector conferred with other licensee and contractor personnel during the course of the inspection.

2. Facility Tour

The inspector observed work activities in-progress, completed work and plant status in several areas of the plant during general inspection of the plant. The inspector examined work for any obvious defects or non-compliance with regulatory requirements or license conditions. Particular note was taken of presence of quality control inspectors and quality control evidence such as inspection records, material identification, nonconforming material identification, housekeeping and equipment preservation, and quality inspection personnel as such personnel were available in the work areas.

The inspector observed the setting of the sole plate for the biological shield. It was noted that the contractor personnel performed the tasks with efficiency and professional skill. Preservation of the biological shield sole plate bolts and the reactor vessel skirt plate bolts was observed. No anomalies were observed.



The inspector observed the final cadwelding for the containment floor. The inspector observed that the technique used was in accordance with the specification.

The inspector accompanied by NMPC QA personnel observed the preparation for firing a cadweld splice on the primary containment liner outer wall. The splice had been prepared the previous day. It had been wrapped and protected as required by the specification. The Specification 203C "Placing Concrete and Reinforcing Steel", Revision 5, dated August 23, 1978, requires heating of the cadweld sleeve to a temperature of 400°F as measured with a tempilstik or other approved temperature indicator to dry external rust off the sleeves and on the surface of the rebar inside the sleeve if the cadwelds are not completed within the working day but within 48 hours. Contrary to this requirement, no temperature measurement was made of the sleeve after it was heated. Subsequently, because of inability to set the pot on the sleeve due to the interference of structural elements on the containment, the effort to fire the particular cadweld was abandoned. Discussions with welders revealed an unawareness of the temperature measuring requirement. The AE, when apprised of the situation, issued an immediate "Stop Work" order for the training of welding personnel in the contents and usage of the specification for the cadwelds.

This item remains unresolved pending verification of action to insure knowledge of specification and quality of cadwelds completed to date. (80-05-01)

The inspector observed numerous containment penetrations without covers. The licensee took action to have end caps placed on all uncovered penetrations.

No items of noncompliance were observed.

3. Licensee Action on Previous Inspection Findings

(Closed) (78-08-01): Settling Basins Operation. The licensee has upgraded the site environmental protection program to assure adequate controls of effluent discharges during weekends and labor disputes.

Construction Site Instruction Number CSI 2.5 has been revised to include analysis of suspended solids, settleable solids, and pH during weekends and other times as determined by the Site Environmental Engineer.

(Closed) (78-08-02): Use of Pesticides Procedure. The licensee has upgraded the procedure in the Construction Environmental Program by revising the section regarding the use of pesticides on September 29, 1978 to include definitive requirements for pesticide approval and use.



(Open) (79-05-01): Failure to evaluate nonconformance for possible reportability in accordance with 10 CFR 50.55(e). The licensee has instructed Stone and Webster (AE) to issue instructions to their personnel indicating that a maximum of five working days is allowed for analysis of any deficiencies determined to be potentially significant in terms of 10 CFR 50.55(e). Should the analysis be inconclusive as to the reportability after the five day period, it should be reported to the licensee as a potential reportable item to the NRC and should be evaluated further for final determination by the licensee.

(Closed) (79-06-01): Latitude in method of mounting electrical equipment in accordance with E061A not consistent with IEEE 333. The inspector verified that E061A has been revised in paragraphs 2.3.1.9, 2.5.15, 3.4.6 and Section 3.4 to provide more definitive instructions in the mounting of electrical equipment in accordance with IEEE 333.

(Closed) (79-07-02): Cable splice limitations not defined in electrical specification E061A. The inspector verified that specification E061A has been revised to define limitations on cable splices. Paragraph 3.2.1.10 states in part that no splices shall be made in cable trays and no unscheduled splices be made.

(Closed) (79-07-03): Cable pulling temperature in QC Inspection Procedure E061A-035 differs from the requirement in Electrical Specification E061A. Paragraph 3.2.3.10 of Electrical Specification E061A has been revised to correspond with QC Inspection Procedure E061A-035. Cable will not be pulled if temperature is below 20°F unless manufacturer recommends otherwise and when cable is warmed in a heated area it must remain so for at least 24 hours to bring it to a safe pulling temperature.

4. Dimensional Control of Cadweld Splices

The licensee observed a welder placing dimensional punch marks on a splice which had been fired contrary to specification. The punch marks are used to assure proper sleeve centering and bar embedment length during set-up and are used by QC personnel to verify final dimensional requirements. The subject cadweld was removed and found to be one (1) inch off center. A further check revealed that the welder in question had shot 842 cadwelds with 4 rejects (3 for punch marks and 1 for welder ID).

The welder in question was terminated. The licensee is continuing his investigation into the acceptability of the cadweld splices performed by this individual.

This item is unresolved pending completion and verification of adequacy of production cadwelds. (80-05-02)



5. Unresolved Items

Unresolved items are matters about which more information is required in order to ascertain whether they are acceptable items, or items of noncompliance. Unresolved items identified during this inspection are discussed in paragraphs 2 and 4.

6. Exit Interview

The inspector met with licensee representatives (denoted in paragraph 1) at the conclusion of the inspection on June 19, 1980. The inspector summarized the findings of the inspection. The licensee representatives acknowledged the inspector's findings.

