

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

REGION III

Report Nos. 50-546/81-17; 50-547/81-17

Docket Nos. 50-546; 50-547

License Nos. CPPR-170; CPPR-171

Licensee: Public Service of Indiana
Post Office Box 190
New Washington, IN 47162

Facility Name: Marble Hill Nuclear Generating Station, Units 1 and 2

Inspection At: Marble Hill Site, Jefferson County, IN

Inspection Conducted: September 1-30, 1981

Inspector: *J. J. Harrison*
J. J. Harrison

10/1/81

Approved By: *W. S. Little*
W. S. Little, Chief
Reactor Projects Section 2C

10/19/81

Inspection Summary

Inspection during the period of September 1-30, 1981 (Report Nos. 50-546/81-17; 50-547/81-17)

Areas Inspected: Inspection by the IE Regional Resident Inspector of activities at the site to verify that the activities being performed complied with the NRC Confirming Stop Work Order, dated August 15, 1979, and were within the scope of the Graduated Recission of the Order as identified in letters dated July 7, 1980 (authorization for PSI to resume receiving inspection activities), November 13, 1980 (authorization for two firms, Cherne and Commonwealth -Lord JV, to resume receiving inspection activities), December 5, 1980 (authorization for two firms, Cherne and Commonwealth-Lord JV, to resume construction activities with certain conditions being specified), and March 27, 1981 (authorization for Newberg-Marble Hill to resume receiving inspection and construction activities with certain conditions being specified). The inspection also consisted of a review of storage and maintenance activities for safety related items, construction activities being conducted by the mechanical, electrical and civil contractors and participation in a special inspection to evaluate the PSI overall quality program for total effectiveness to warrant possible lifting of the Confirming Order of August 15, 1979. This inspection involved a total of 130 inspector-hours on site by one NRC inspector, including 26 inspector-hours onsite during off-shifts.

Results: No items of noncompliance or deviations were identified.

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DETAILS

1. Principal Persons Contacted

Public Service of Indiana (PSI)

*S. Shields, Senior Vice President Nuclear Division
*B. Petro, Executive Director - Nuclear Project Management
*L. Ramsett, Executive Director - Nuclear Quality Assurance
*T. Burns, Project Engineering Manager
N. Reichel, Contract Manager Civil
G. Warner, Civil Construction Engineering Supervisor
*C. Beckham, Quality Engineering Manager
J. Roberts, Inspection Superintendent
B. Morrison, Superintendent - Civil Quality Engineering
H. Curry, Superintendent - Electrical Quality Engineering
*J. Wolfe, QA Administrative Assistant
F. Carchedi, Superintendent, Mechanical Quality Engineering

Cherne Contracting Corporation (CCC)

J. Mortell, Project Manager
A. Dolgaard, QC Manager
T. Francis, Principal Engineer

Newberg-Marble Hill (N-MH)

D. Stegemoller, Vice President - Power Construction
L. Elliott, Project Manager
C. Barbour, Project QA Manager

Westinghouse Electric Corporation

C. Markham, Site Manager

Authorized Nuclear Inspector (ANI)

A. Clark, Hartford Steam Boiler (ANI-PSI)

Nuclear Regulatory Commission

F. Hawkins, Reactor Inspector
E. Schweibinz, Reactor Inspector
W. Little, Section Chief - DRPI
C. Williams, Branch Chief - DETI

*Denotes those present at the exit meetings.

The inspector also contacted and interviewed other licensee and contractor personnel.

2. Licensee Action on Previous Inspection Findings

(Closed) Unresolved (546/81-11-01; 547/81-11-01): PSI contractor, Nuclear Installation Services Company (NISCO) Procedure E. S. 4004-15, Revision A 2 and 3, General Handling Procedure, failed to reference or include process sheet. The subject procedure was revised (Revision D), approved by PSI on September 16, 1981. This procedure revision was reviewed by the Resident Inspector and found acceptable. This item is closed.

3. Functional or Program Areas Inspected

a. Construction Activities

Inspection of construction activities were performed by the Resident Inspector to assure that work in Category 1 areas was being performed within the scope of the NRC Confirmatory Order dated August 15, 1979, and Graduated Recission to the Order by NRC letters of July 7, November 13, December 5, 1980, and March 27, 1981. The activities observed were within this scope. Six inspections were conducted during off-shift periods.

Also during this reporting period, the Resident Inspector observed the following:

- (1) Civil - The chipping, evaluation and repair of defective concrete areas in the Auxiliary, Fuel, and Unit 1 Containment Buildings. The Resident Inspector observed the work and inspection activities as detailed in Newberg Procedures:

WPN-25, Concrete Patching, Revision 7

WPN-25-02, Concrete Patch and Repair Area Evaluation, Revision 4

WPN-41, Concrete Curing, Revision 1

QCP-10.04, Concrete Curing Inspection, Revision 1

QCP-10.06, Post Placement and Patching Inspection, Revision 4

Also, during the month the Resident Inspector observed three concrete placements. Inspections were conducted for pre-placement, placement and post placement activities to the following Newberg Procedures:

WPN-9, Concrete Placement, Revision 16

WPN-13, Installation of Embedded Items, Revision 11

WPN-34, Production Preplacement Evaluation, Revision 5

WPN-41, Concrete Curing, Revision 1

QCP-10.02, Concrete Preplacement Inspection, Revision 3

QCP-10.03, Concrete Placement Inspection, Revision 2

QCP-10.04, Concrete Curing Inspection, Revision 1

- (2) Electrical - the installation of electrical hangers in the Auxiliary Building, elevation 383, to the following Commonwealth-Lord JV Procedures:

CWP-C8A, Welding Procedure General, Revision 2

CWP-C3B, Cable Tray System Installation, Revision 1

CWP-C24, Priming and Galvanizing Repair, Revision 1

- (3) Mechanical - The installation of the Containment Spray System in the Unit 1 and 2 dome areas to the following Cherne Contracting Company Procedures:

13.10, Fitting and Alignment, Revision 7

WPS 808B021 - 1.0 CT, Revision 6

No items of noncompliance or deviations were identified.

b. Storage and Preservation of Material and Equipment

The Resident Inspector observed the storage conditions and maintenance activities in laydown areas, warehouses, and interim storage in the Auxiliary and Fuel Handling Buildings, and other storage areas of material and equipment. These inspections were performed to assure compliance with the requirements of ANSI N45.2.2 - Packaging, Shipping, Receiving, Storage and other requirements of the Nuclear Steam System Supplier (Westinghouse) and the Public Service of Indiana's Project Management Manual.

No items of noncompliance or deviations were identified.

c. Polar Crane

The Resident Inspector observed some disassembly of the Polar Crane, the preparation, sand blasting and coating activities. These activities are being performed to correct a 10CFR50.55(e) Construction Deficiency Report involving a severe coating overspray problem that occurred at the vendor's plant. The work is being performed under the direction of the crane manufacturer, Harnischfeger. Newberg is performing the disassembly/assembly, J. C. Manta is performing the blasting and coating activities, and PSI is controlling overall activities. This inspection revealed the following problems:

- . Crane parts not properly identified prior to and after disassembly.

.Crane parts not properly stored.

.Handling practices poor for crane parts during preparation for blasting/coating.

PSI took immediate action to correct the above problems and to prevent recurrence, this action was satisfactory.

No items of noncompliance or deviations were identified.

4. Special Inspection

During this reporting period, on September 8 and 9, 1981, the Resident Inspector participated in an inspection of the Licensee to evaluate the overall Quality Assurance Program and its effectiveness. Inspection team members were C. C. Williams, W. S. Little, F. C. Hawkins, and the Resident Inspector. The inspection results are documented in NRC Inspection Report number 546/81-18; 547/81-18.

5. Exit Meetings

The Resident Inspector participated in the exit meetings conducted on:

September 3, 1981, E. R. Schweibinz

September 9, 1981, W. S. Little, C. C. Williams and F. C. Hawkins.

The Resident Inspector also met with licensee representatives (denoted under Persons Contacted) periodically throughout this reporting period collectively and individually. The inspector summarized the scope and findings for each part of this activity.