

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

REGION III

Report Nos. 50-546/80-15; 50-547/80-15

Docket Nos. 50-546; 50-547

License Nos. CPPR-170; CPPR-171

Licensee: Public Service of Indiana
1000 East Main Street
Plainfield, IN 46168

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

Inspection At: Marble Hill Site, Jefferson, County, IN

Inspection Conducted: April 16-18, 1980

Inspectors: *C.E. Williams for*
J. E. Konklin

4/23/80

Z. C. Cordero
Z. C. Cordero

4/23/80

Approved By: *C.C. Williams*
C. C. Williams, Chief
Projects Section 2

4/23/80

Inspection Summary

Inspection on April 16-18, 1980 (Report Nos. 50-546/80-15; 50-547/80-15)

Areas Inspected: Licensee's actions relative to the inspection of installed Category I structural steel and safety-related piping as part of the construction verification program being implemented in response to the NRC Stop Work Order of August 15, 1979. This inspection involved a total of 38 inspector-hours by two NRC inspectors.

Results: No items of noncompliance were identified.

DETAILS

Principal Persons Contacted

Public Service of Indiana (PSI)

- *L. Ramsett, QA Manager
- G. Brown, Project Director
- J. Brewer, Construction Manager
- *D. Ingmire, Superintendent Civil Quality Engineering
- *C. Togni, Structural Steel Coordinator (S&L)
- *J. Norris, Acting QA Manager
- R. Budnar, Leader, Structural Steel Survey Team No. 1
- M. Pratt, Leader, Structural Steel Survey Team No. 3
- *C. Chmielewski, Superintendent, Quality Systems
- *C. Beckham, Quality Engineering Manager

Cherne Contracting Corporation

- A. Dolgaard, QC Manager

Authorized Nuclear Inspector

- B. Braden, Hartford Steam Boiler (ANI-Cherne)

*Denotes those present at the exit meeting.

The inspectors also contacted other licensee and contractor personnel.

Section I

Prepared by: J. E. Konklin

Reviewed by: C. C. Williams, Chief
Projects Section 2

Licensee Inspection of Installed Category I Structural Steel

As part of the licensee's response to the NRC stop work order of August 15, 1979, PSI committed to the implementation of a construction verification program to verify the adequacy of installed equipment and structures. During this inspection, the RIII inspector reviewed the licensee's actions relative to the inspection of installed Category I structural steel. The inspector reviewed the applicable procedures and personnel qualifications, observed the performance of a structural steel survey team, and inspected specific structural steel areas which had previously been inspected by the survey teams. Results of the RIII inspection are discussed below.

1. Review of Procedures and Records

The inspector reviewed the following procedures and records related to the structural steel inspection activities:

- a. Special Process Procedure SPP-3, Revision 3, dated March 24, 1980, "Category I Structural Steel".
- b. Project Management Procedure PMP 3.01, Revision 0, dated March 3, 1980, "Qualification and Certification of QA Personnel".
- c. Structural Steel Daily Inspection Reports for the period April 3 through April 14, 1980.

No items of noncompliance were identified. Detailed comments on PMP 3.01 will be provided to the licensee as part of the Region III review of the Project Management Procedures.

2. Review of Personnel Qualifications

The inspector reviewed the qualifications and training of the PSI, Newberg-Marble Hill, and U.S. Testing personnel assigned to two structural steel survey teams. The areas reviewed included education, related work experience, visual examinations, and training in the requirements of the applicable structural steel inspection procedure. With regard to the personnel training activities, the inspector reviewed the training course program, titled, "Lesson Plan for the Implementation of Procedure SPP-3, Category I Structural Steel",

Revision 0, dated March 25, 1980; the course training materials associated with the lesson plan; and the course attendance lists to verify that all of the survey team members had attended the training sessions.

No items of noncompliance were identified.

3. Structural Steel Inspection Activities

The RIII inspector discussed with the two survey team leaders the methods being used to inspect the structural steel, the system being used to keep track of the members and connections which have been inspected, and the results of the inspections to date. The inspector then observed one survey team as the team performed inspections of structural steel at Elevation 463.5 of the auxiliary building. The inspector then performed an independent inspection of structural steel at Elevations 451 and 350 of the auxiliary building, in areas which had previously been inspected by the survey teams. In each case where the RIII inspector found a nonconforming condition, the markings on the member or connection and the survey team inspection records identified the nonconformance.

No items of noncompliance were identified.

Section II

Prepared by: Z. C. Cordero

Reviewed by: D. H. Danielson, Chief
Engineering Support Section 2

1. Review of Special Process Procedures

The inspector reviewed for comments two (2) procedures to verify that the licensee's commitment contained in the "Description of Licensee Activities Addressing Order Confirming Suspension of Construction" are properly incorporated.

a. SPP-4; Revision 0, dated April 14, 1980

The procedure requires a physical inspection and verification of in-place safety category I piping and hangers.

The piping welds and the hanger welds should be grouped separately in choosing samples for the statistical tests. The individual responsible for selecting the required number of weld samples should be identified on the procedure. The forms to be used should refer to the PSI QA Engineer/Inspector to conform to Section 4.1. The procedure should be clarified to require a 95% reliability factor and a 95% confidence level statistical sampling as stated on the confirming order.

The above comments will be incorporated per licensee on Revision 1 of the procedure.

No item of noncompliance was noted.

b. SPP-8; Revision C, dated April 9, 1980

The procedure requires a physical inspection and verification of in-place safety Category I buried and embedded pipings.

The procedure does not address a visual inspection of the internal surface of each accessible in-place piping nor does the procedure specify the accept/reject criteria for the inspection of welds. The forms to be used should refer to the PSI QA Engineer/Inspector to conform to Section 4.1. The weld inspection worksheet should have an accept/reject column for the welding inspectors' result of inspection.

The above comments will be incorporated per licensee on Revision 1 of the procedure.

No item of noncompliance was noted.

2. Review of Personnel Qualifications

The inspector reviewed the qualification and training records of the physical survey team for the SPP-4 procedure to verify conformance with ANSI N45.2.6-1973. The following were verified:

- a. Activity qualified to perform.
- b. Level of capability.
- c. Effective period and basis used for certification.
- d. Educational attainment and previous working experience.
- e. Individual functions on the survey team.

No item of noncompliance was noted.

The inspector also attended a training program on April 4, 1980 to familiarize the members of the physical survey team for SPP-4 as to the requirements of the procedure.

Exit Meeting

The inspectors met with site staff representatives (denoted under Persons Contacted) at the conclusion of the inspection on April 17, 1980. The licensee acknowledged the findings reported herein.