

U.S. NUCLEAR REGULATORY COMMISSION

REGION III

Reports No. 50-546/83-09(DE); 50-547/83-09(DE)

Docket Nos. 50-546; 50-547

Licenses No. CPPR-170; CPPR-171

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

Facility Name: Marble Hill Nuclear Generating Station

Inspection At: Marble Hill Site, Jefferson County, IN

Inspection Conducted: June 6-15, 1983

Inspector: *C. C. Williams for:*
R. S. Love

7/19/83
Date

Approved By: *C. C. Williams*
C. C. Williams, Chief
Plant Systems Section

7/14/83
Date

Inspection Summary

Inspection on June 6-15, 1983 (Reports No. 50-546/83-09(DE); 50-547/83-09(DE))

Areas Inspected: Review of the licensee's progress in its recovery program in the electrical area (reference: Confirmatory Action Letter, February 2, 1983), and review of actions taken by the licensee to correct previously identified items. This inspection involved a total of 66 inspection-hours by one NRC inspector.

Results: Of the areas inspected, no apparent items of noncompliance were identified.

DETAILS

1. Persons Contacted

Public Service Indiana (PSI)

- *W. Petro, Vice President, Nuclear Services
- *C. Beckham, Executive Director, Nuclear QA
- *J. Parks, Civil Quality Engineering Manager
- *S. Quinn, Project Engineering Manager
- *D. Krueer, Licensing Supervisor
- *G. Warner, Construction Engineering Supervisor
- *W. Houchins, Startup Maintenance Manager
- *G. Chavez, Project Startup Manager
- *H. Curry, Electrical Quality Engineering Manager
- *R. Hughes, Electrical Contract Manager
- *J. Thomas, Construction Manager
- *M. Linn, Civil Contract Manager
- *B. Morrison, Quality Engineering Manager
- *F. Carchedi, Mechanical Quality Engineering Manager
- R. Sallee, Quality Engineering Superintendent, Materials
- T. Black, Senior Quality Engineer, Materials
- K. Rafferty, Electrical Construction Surveillance Supervisor
- L. Worley, Quality Records Verification Supervisor
- F. Rubio, Mechanical Supervisor

Commonwealth Lord-Joint Venture (CLJV)

- *K. Pendergrass, Quality Assurance Director
- *E. Scott, Project Executive Vice President
- E. Ritzmann, Quality Control Manager
- A. Beckham, Records Supervisor
- G. Sewell, Lead Quality Control Inspector
- W. Linthicum, Lead Quality Control Inspector, Fab Shop
- A. Brameier, Document Control Supervisor

The inspector also contacted and interviewed other licensee and contractor personnel during this reporting period.

*Denotes those persons present during the exit interview conducted on June 10, 1983.

2. Licensee Action on Previous Inspection Findings

(CLOSED) Noncompliance (50-546/83-01-03; 50-547/83-01-03): During a previous inspection it was observed that the licensee's electrical contractor (CLJV) was not maintaining the status of inspections and tests on cable tray hangers. Specifically, hanger documentation packages presented to the Region III inspectors as being complete, were in fact missing inspection sign-offs and contained open noncompliance reports. CLJV purged its records storage vault of all cable

tray hanger documentation packages. These documentation packages were reviewed for completeness. Incomplete packages were returned to the field for re-work and/or inspection. Under the present system, only completed packages are placed in the vault.

The Region III inspector selected 12 hanger packages for review. Hanger travelers E-1-3241-H003, Revision 1 and E-1-3242-H014, Revision 0 were in the field for action. A review of these two travelers indicated that the construction/inspection status was current as of June 9, 1983. Traveler E-1-3241-H019, Revision 1, was in the field office and status was current. The field traveler control log indicated that travelers E-1-3241-H007, H014, H021, H023, and E-1-3242-H023, H027, H029, H055, and H057 had been completed and forwarded to CLJV Document Control Center for transmittal to Quality Control for review and filing. Three of these travelers (H023, H055, and H057) were found in the Document Control files that had not been processed in a timely manner and properly statused. CLJV took immediate action to purge the Document Control files of all travelers that had been completed by construction and had not been transmitted to Quality Control. An additional six travelers were found in the Document Control files that had not been properly statused and processed.

As a result of the above findings, CLJV issued Corrective Action Request (CAR) No. 83-058. Part of the corrective action for this CAR will consist of a reverification of the status of all travelers issued for construction and inspection to date. The remaining 6 travelers were undergoing review by the Quality Control Records Analyst Group. As of June 9, 1983, approximately 100 hanger traveler packages have been fully accepted and are filed in CLJV's record storage vault.

(CLOSED) Noncompliance (50-546/83-01-06; 50-547/83-01-06): During a previous inspection it was observed that nonconforming items were not being controlled by tagging, marking, or segregation to prevent their inadvertent use or installation. During this reporting period, the Region III inspector selected nonconformance reports (NCR) 1356, 1383, 1387, 1413, 1416, 1418, 1431, 1458, 1471, and 1472 for followup to ensure that the items were being controlled in accordance with program commitments. All items inspected were satisfactory.

3. Functional or Program Areas Inspected

a. As part of the electrical stop work recovery program (Reference: Confirmatory Action Letter, February 2, 1983), PSI committed to various actions to strengthen its quality assurance program at the Marble Hill Nuclear Generating Station. During this reporting period, the Region III inspector reviewed these commitments and verified PSI actions in the electrical area. The following observations were made:

- (1) The Region III inspector toured the material lay-down areas. During this tour, the inspector selected three cable tray

hangers and one shipment of cable tray for review of documentation. The inspector observed CLJV Quality Control personnel marking PSI furnished material with a CAT-1 ink stamp prior to removing the material from the PSI-controlled storage area. This is in accordance with CLJV procedures and PSI commitments to the NRC. All items observed were on dunnage and the lay-down areas appear to be well maintained.

- (2) The Region III inspector reviewed the documentation for three cable tray hangers and one shipment of cable tray. This documentation was located in PSI's records vault. Hanger E-1-3014HL-H504 was purchased from Reliable Sheet Metal by PSI under Specification Y-2815, Addendum No. 3. This hanger was received in two shipments as documented on Receiving Inspection Reports (RIR) 0139, dated February 19, 1981 and 0240, dated May 4, 1981. This material was accepted and released for installation as documented on Accept Release (AR) 81-0091 and 81-0147. The vault copy of the Certificate of Conformance (C of C) was dated March 29, 1983. As indicated above, this hanger was released for installation approximately two years before a C of C was received from the material supplier. A review of records maintained by Materials Quality Engineering group revealed a C of C for this hanger dated June 10, 1980. Although the June 10, 1980 C of C would have sufficed, it did not contain all the purchase order requirements. This fact had been identified by PSI during an audit of documentation for material supplied by Reliable Sheet Metal. PSI obtained corrected C of Cs in March 1983.

The old C of Cs were erroneously purged from the files and replaced with the C of Cs obtained in March 1983. Similar problems were observed with the C of Cs for hangers E-1-3251HL-H005 and E-1-3043HL-H515 and cable tray received on RIR 0770. PSI has agreed to place the old C of Cs back into the documentation packages so as to provide a complete history on the item. Pending a review of these records during a subsequent inspection, this item is unresolved (50-546/83-09-01; 50-547/83-09-01).

- (3) As part of its electrical stopwork recovery program, PSI committed to revise certain procedures. During this reporting period, the Region III inspector reviewed Procedure Numbers QWP-C5, Revision 0, dated May 27, 1983, "Fabrication, Installation and Inspection of Conduit Supports and Junction Box Supports;" and QWP-C6, Revision 0, dated May 31, 1983, "Installation and Inspection of the Conduit System." These procedures appear to be adequate.

- (4) With reference to paragraph (3) above, the NRC Project Inspector for Marble Hill verified that CLJV had trained Quality, Engineering, and Construction personnel in procedures QWP-C5 and QWP-C6 and in applicable associated procedures. This review of the training activity is documented in Inspection Reports No. 50-546/83-08; 50-547/83-08.

Based upon Region III review of the procedures and the training of personnel to the procedures, PSI received NRC concurrence for the resumption of electrical work activities relating to conduit and conduit hanger installation and remedial work activities. This concurrence is documented in James G. Keppler letter to S. W. Shields, dated June 15, 1983.

- (5) During an independent (not accompanied by licensee nor contractor personnel) tour of the power block, the Region III inspector interviewed approximately 30 QC inspectors and welders. All individuals interviewed felt that the welds in the plant were generally good. They also felt that QC was identifying all of the weld defects, i.e., undercut, overlap, under size, crater cracks, arc strikes, etc.. With respect to possible intimidation of QC inspectors as the result of the firing of two CLJV QC inspectors, all personnel interviewed felt that no additional personnel would be fired without just cause. They also stated that they would have no qualms about reporting quality concerns to PSI and/or the NRC.
- b. During a tour of the power block, the Region III inspector selected seven CLJV drawings for review for proper posting of FCRs and ECNs and for proper revision. The following drawings and FCRs were found to be satisfactory:
- . E-0-3302D01, Revision A
 - . E-0-3303D01, Revision A
 - . E-0-3309, Revision D, and FCR Number E-5984
 - . E-0-3309C09, Revision C, and FCR Numbers E-5984 and E-6132
 - . E-0-3002H061, Revision A
 - . E-0-3010H12H2, Revision A
 - . E-0-3012H042, Revision A
- c. The Region III inspector selected Centrifugal Charging Pump and Motor, 2CV01PA, and Containment Spray Pump and Motor, 1CS01PA, for review of storage and maintenance activities. Both of these units have been installed. PSI Maintenance Group has the responsibility for storage and maintenance of these units as delineated in Station Management Administration Procedure MH-12-SX-00-037, Revision 3, dated January 4, 1983. Records reviewed for these units were satisfactory. The inspector also observed the units during a tour of the plant. The units were protected, unit heaters were energized, and no evidence of corrosion was observed.

4. Unresolved Matters

Unresolved matters are items about which more information is required in order to ascertain whether they are acceptable items, items of noncompliance or deviations. Unresolved item disclosed during this inspection is discussed in Paragraph 3.a.(2).

5. Exit Interview

The inspector met with licensee representatives (denoted under Paragraph 1) at the conclusion of the on-site inspection on June 10, 1983. The inspector summarized the scope and findings of the inspection. The licensee acknowledged the information.