

U.S. NUCLEAR REGULATORY COMMISSION

REGION III

Report No. 50-546/83-16(DE); 50-547/83-16(DE)

Docket No. 50-546; 50-547

License 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: September 19-22, 1983

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

*C. C. Williams for.*  
A. Gautam

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

10/20/83

10/20/83

10/20/83

Inspection Summary

Inspection on September 19-22, 1983 (Report No. 50-546/83-16(DE); 50-547/83-16 (DE))

Areas Inspected: Review of licensee action on previously identified items. Reviewed installation of cable tray and cable tray hangers and review of associated procedures and records. Also reviewed fabrication shop activities and material storage areas. This inspection involved a total of 56 inspector-hours by two NRC inspectors.

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

## DETAILS

### 1. Persons Contacted

#### Public Service Indiana, (PSI)

\*W. M. Petro, Vice President, Nuclear Services  
\*C. Bechham, Executive Director-Nuclear QA  
\*B. R. Morrison, Quality Control Manager  
\*J. Roberts, Contracts Manager, Electrical  
\*J. P. Thomas, Construction Manager  
\*D. A. McCarty, Electrical Quality Engineer  
S. E. Quinn, Project Engineering Manager  
R. Greer, Assistant Construction Manager  
K. Rafferty, Electrical Construction Surveillance Supervisor  
S. Sallee, Materials Quality Engineering Manager

#### Commonwealth-Lord J. V. (CLJV)

K. Pendergrass, Quality Assurance Director  
A. McLeod, Engineering Manager  
D. Dayton, Project Engineer  
K. Morgan, Records Supervisor

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

\*Denotes those present at the exit interview on September 22, 1983.

### 2. Action on Previously Identified Items

(Open) Noncompliance (50-546/83-01-01; 50-547/83-01-01): This item pertained to the failure to assure that applicable regulatory, specification, and standard requirements were correctly translated into procedures and instructions. During this reporting period, the Region III inspectors reviewed procedure QWP-C12, Revision B, "Installation and Inspection of Cable," that had been submitted to the licensee on September 19, 1983 for approval. The inspector discussed his concerns with the appropriate PSI and CLJV personnel. The major concerns were: (1) the procedure fails to discuss maximum cable sidewall pressure; (2) the procedure fails to discuss the protection of cables remaining in the raceway during cable pull-out/pull-back work activities; (3) support of coiled cables and cables in risers. Pending a further review of this procedure, this item remains open.

(Closed) Noncompliance (50-546/83-01-02; 50-547/83-01-02): This item pertained to the failure to accomplish activities in accordance with instructions, procedures, and drawings. Based upon the review of activities as documented in Paragraph 3.C. of this report, this item is closed.

(Open) Unresolved item (50-546/83-01-04; 50-547/83-01-04): This item pertains to cable tray hanger E-0-3051H016. During a review of the records for this hanger, the inspectors could not ascertain what materials had been used in the construction of this hanger. During this reporting period, the inspectors were informed that as a result of the reinspection program, this hanger package was still in the field for additional work. Pending a review of the completed hanger package, this item remains open.

(Open) Unresolved item (50-546/83-01-05; 50-547/83-01-05): This item pertains to cable tray hanger E-2-3002H511. During a review of the records for this hanger, it appeared that the QC inspector may have signed-off the hanger fitup attribute before the work activity had been accomplished. The QC inspector involved is no longer employed by CLJV. Pending a review of the completed reinspection hanger package, this item remains open.

(Open) Noncompliance (50-546/83-01-07; 50-547/83-01-07): This item pertains to the failure to establish measures to assure that conditions adverse to quality are promptly identified and corrected as evidenced by material traceability problems that were outstanding in excess of eight months. The licensee's electrical contractor (CLJV) reviewed all purchase orders and verified that the appropriate documentation had been received for each purchase order. The heat/code numbers of materials in the laydown areas within the Power Block were verified as safety-related with proper documentation. This material was then marked with a CAT-1 stamp to signify that it was acceptable for installation in safety-related systems. Prior to material being released to the field (Power Block) for installation from the lay-down areas, this material is verified as safety-related with the proper documentation. This material is marked with a CAT-1 stamp prior to leaving the laydown area. The material installed was reinspected to verify that it was safety-related material with proper documentation. Items without a heat/code number traceable to approved documentation were documented on Nonconformance Reports (NCR). Pending a review of these NCRs for proper closure, this item remains open.

### 3. Functional or Program Areas Inspected

#### A. Steward and Stevenson Services, Inc. (SSS Inc)

During a reactive inspection of the Stewart and Stevenson Services, Inc. (Engine Division) facilities at Houston, Texas by Region IV of the NRC, several items of noncompliance were identified. These items of noncompliance affect material being supplied to the Marble Hill Nuclear Generating Station. This material was identified as two diesel driven auxiliary feed water pumps, Equipment Numbers 1AF01PB-K and 2AF01PB-K.

During this reporting period, the Region III inspectors reviewed PSI's Source Surveillance Reports and Audits of SSS Inc. facilities in Houston, Texas. PSI Source Surveillance Report for

March 3-4, 1982 identified the NRC (Region IV) finding and furnished a status report. PSI audit, #82-Stew Stev-01 dated March 2-4, 1982, also identified: (1) Purchase Order to Detroit Diesel for feed water pump diesels could not be located; (2) Crankshaft Certified Material Test Reports (CMTR) were missing; (3) Receiving Inspection Reports (RIR) for the feed water pump diesels were missing; and (4) diesel engine documentation was missing. PSI audit, #83-Stew Stev-01 dated January 31 - February 2, 1983, identified 14 findings and two concerns. On March 7, 1983, PSI issued Corrective Action Request (CAR)-283-PSI0040 to track the open NRC finding and open findings and concerns from PSI audit No. 82-Stew Stev-01 and No. 83-Stew Stev-01. Pending a review of CAR-283-PSI0040 for proper closure, this item is open (50-546/83-16-01; 50-547/83-16-01).

B. Public Service Indiana (PSI)

During an interview of PSI's Materials Quality Engineering Manager, the Region III inspector learned that PSI's Material Receiving Procedure did not address the notification of the Station Health Physicist (HP) when a radiation check source was received. These check sources are normally an integral part of radiation monitors. The licensee agreed to revise their receiving procedure to require the notification of HPs when a radiation check source is received. Pending a review of the revised procedure, this item is open (50-546/83-16-02; 50-547/83-16-02).

C. Commonwealth-Lord J. V. (CLJV)

During the reporting period, routine inspections were performed on the installation of safety-related cable tray and associated safety-related cable pans.

The scope of these inspections included:

- . Verifying installation of hardware in accordance with applicable procedures and associated criteria.
- . Verifying fabrication activities and their documentation for safety-related pan hangers in CLJV fabrication shop.
- . Verification of material traceability in the material receiving and laydown areas.

The following cable pans & hangers were inspected. No discrepancies were observed except as noted in Paragraph C(1). Incomplete cable pans & hangers were inspected on an in process basis as no completed cable pan sections were available for inspection.

Area	Hanger	Tray Pans	Procedures
El. 439	E3061-H016	11600J (C2E)	QWPC3-Rev 4
Aux	E3061-H017	11601J (C2E)	QWPC4-Rev 1
Bldg.	E3061-H018	11600S (K2E)	S & L Hangar Dwgs
		11601S (K2E)	Associated
El. 439	E3061-H071	11603J (C2E)	Checklists
Aux	E3061-H138	11604J (C2E)	
Bldg.		11605J (C2E)	
		11606J (C2E)	
El. 439	E3061-H130	11664J (C2E)	
Aux	E3061-H063	11669J (C2E)	
El. 426	E13251-H060	No Trays	
Containment	E13251-H061	No Trays	
Unit 2	E13251-H062	No Trays	
Fab	E3062-H095	No Trays	QWP-C3 Rev 4
Shop	E3051-H031	In Fab	CWP-C8A
	E3051-H075	Shop	
	E3064-H043		
Lay Down	3/4"x15"x15"	Plates	Receiving QCP-C8
Area	4"x2"x1/4"x20"	Tube Steel	Rev 10, and
	3 1/2"x3 1/2"x3/8"x20"	Angle	Inspection
	3 1/2"x3 1/2"x3/8"x20"	Angle	Report #0629R

- (1) CLJV-QWPC3 Revision 5 Section 4.5.3.2, Procedure on installation of cable tray supports does not address the inspection of the elevation & dimensions of bolted horizontals on pan hangers. This inspection would normally be done after the installation of the cable pans. Since this inspection has not been addressed in the cable pan installation/inspections checklist QCP-C5, the inspector found no evidence that this inspection will be performed at any later date. Pending a review of the revised procedure, this item is open (50-546/83-16-03; 50-547/83-16-03).
- (2) CLJV-QWCP4 Revision 1 on the installation of cable trays does not address inspections for cable pan separation criteria referred to in Sec. 8.3.1.2.4 of the PSAR. The inspector was informed by the licensee that this criteria has been incorporated in the elevation & location of pan hangers. During inspection of hangers the inspector found tray hangers to be within an average of  $\pm 3"$  of specified locations. Even though these values are within location tolerances (which may vary up to  $\pm 6"$ ), the inspector was concerned that installation to these tolerances may create discrepancies among separation of Class IE cable and raceway in areas of cable tray concentration. This concern was brought to the licensee's attention.

4. Open Items

Open items are matters, not otherwise categorized in this report, that need to be followed up on in future inspections. Open items disclosed during this inspection are discussed in paragraphs 3.A, 3.B, 3.C.

5. Exit Interview

The inspectors met with licensee representatives (denoted in paragraph 1) on September 22, 1983. The inspectors summarized the scope and findings of the inspection. The licensee representatives acknowledged this information.