

U. S. NUCLEAR REGULATORY COMMISSION

REGION III

Reports No. 50-546/84-03(DRP); 50-547/84-03(DRP)

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, Units 1 and 2

Inspection At: Marble Hill Site, Jefferson County, IN

Inspection Conducted: June 18 - September 18, 1984

Inspector: J. F. Schapker

Approved By: *W. L. Forney*
W. L. Forney, Chief
Projects Section 1A

9/25/84
Date

Inspection Summary

Inspection during the period of June 18 - September 18, 1984 (Report Nos. 50-546/84-03(DRP); 50-547/84-03(DRP))

Areas Inspected: Routine, unannounced inspection by the resident inspector of maintenance of structures and equipment during the extended construction delay, including review of implementing procedures, review of quality records, and observation of work activities. Inspection of 10 CFR 50.55(e) and 10 CFR 21 reportable items, IE Bulletins, and licensee action on previous inspection findings. This inspection involved a total of 121 inspector-hours by one NRC inspector including 0 inspector-hours during off shifts.

Results: No items of noncompliance or deviations were identified.

DETAILS

1. Persons Contacted

Public Service Indiana

*S. Shields, Senior Vice President Nuclear Division
J. Bott, Executive Director of Nuclear Quality Assurance
L. Nicodemus, Quality Assurance Administration Manager
M. Linn, Construction Manager
J. Rutkowski, Maintenance Manager

Westinghouse Electric Corporation

C. Markham, Site Manager
B. York, Welding Engineer
D. Williams, Mechanical Engineer

*Denotes those present at the exit meeting.

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

2. Licensee Action on Previous Inspection Findings

(Closed) Open Item (546/84-02-01; 547/84-02-01): Warehouse "C" is not integrated into PSI maintenance program. The licensee has incorporated the warehouse into the maintenance program. The inspector verified that all warehouses are now being monitored in accordance with the Quality Assurance Program. This item is considered closed.

3. Observation of Work and Work Activities During Extended Construction Delay

The inspector made periodic tours of various storage areas and plant safety-related areas. The inspector observed fire protection, covering and capping of mechanical and electrical equipment, heating devices energized on equipment where required, maintenance of inert gas blankets and dehumidification systems where required. General housekeeping and rodent control is adequate in the areas observed. Laydown yards appear to be maintained so that materials are cribbed up and not in contact with the earth, caps are on piping, electrical cable is adequately protected, and periodic inspection of materials is being performed.

The inspector selected the following safety-related components and verified that adequate preventive maintenance is currently being performed to assure that the design integrity will be maintained:

<u>Component</u>	<u>Identification</u>	<u>Location</u>
Auxiliary Relay Cabinet	2PA26J	Warehouse
Main Control Board	1PM05J	Warehouse
Computer Power Supply Inverter	2CX08J	Warehouse
Electrical Penetration	2NR02E	Warehouse
Electrical Penetration	2NR04E	Warehouse
Reactor Coolant Pump Motor	2RC01PB	Warehouse
Snubber	1SX09029S	Warehouse
Snubber	1FW01216S	Warehouse
Snubber	1MS01252S	Warehouse
Reactor Vessel Closure Head	1RC01R	Warehouse
Steam Generator	0211388170	Containment 1
Motor Operated Loop Gate Valve	1RC8002A	Containment 1
Motor Operated Gate Valve	2RH8716B	Auxiliary Bldg.
Motor Operated Gate Valve	1CV8804A	Auxiliary Bldg.
Motor Operated Gate Valve	2CS001A	Auxiliary Bldg.
Charging Pump	2CV01PB	Auxiliary Bldg.
Residual Heat Exchanger	1RH02AB	Auxiliary Bldg.
RHR Pump	1RH01PA	Auxiliary Bldg.
Containment Spray Pump	1CS01PA	Auxiliary Bldg.

The above components were observed to have adequate covering, internal preservation, fire protection and cleanliness preservation. Maintenance records were reviewed and found to be satisfactory.

No items of noncompliance or deviations were identified.

4. Review of Low Voltage Switch Gear Supplier Deficiencies

(Open) 10 CFR 50.55(e) Report (546/82-05-EE; 547/82-05-EE) and 10 CFR 21 Report (546/82-03-PP; 547/82-03-PP): The NRC vendor inspection branch cited Brown-Boveri Electric, a supplier of low voltage switchgear and circuit breakers, for numerous deficiencies in the implementation of their Quality Assurance Program. This inspection was performed on March 26 - 30, 1984. Some of the components manufactured by the vendor were shipped to the Marble Hill Nuclear Generating Station.

As a result of a Quality Assurance audit by the licensee on May 25, 1982, the licensee made a 10 CFR 50.55(e) report concerning anomalies in the Quality Assurance program involving welding, crimping procedures for attaching terminal lugs to wire, and certification of circuit breaker wiring at the same vendor facility. The licensee issued a stop work order and directed the vendor to provide corrective action and identify all affected equipment. Subsequently, the vendor issued a 10 CFR Part 21 report on December 22, 1982. This report included the other licensees who had purchased equipment from this vendor. The NRC vendor inspection was in response to the Part 21 report.

The licensee's last interim report dated October 20, 1983, stated that further action by the vendor was required. No further reports have been made due to the suspension of construction at the Marble Hill Site.

The licensee will pursue the final corrective action when and if construction resumes at Marble Hill. This item is considered to be open.

5. Followup on IE Bulletin 81-03: Flow Blockage of Cooling Water to Safety Components by Corbicula sp. (Asiatic Clam) and Mytilus sp. (Mussel).

(Open) IE Bulletin 81-03: The licensee's last response was dated August 20, 1981. In that report the licensee stated that no Mytilus sp. were known to have been reported near Marble Hill in the Ohio River. However, quarterly aquatic studies performed since 1977 have shown the presence of Corbicula sp. The licensee stated it was monitoring industry methods and their effectiveness. Tentative plans to chemically treat the cooling water system were being made by the licensee. Other industry programs such as periodic inspection and cleaning of heat exchangers cooled by service water or monitoring of flow degradation in heat exchangers through the use of differential pressure gauges may be implemented. Also, any newly developed methods of clam control that are proven effective will be considered for use. At this time no potentially affected systems have been filled with river water. Water which was being used during the construction phase for fire protection, potable water, and other construction uses was obtained from wells.

Construction has been suspended at this time; further processing of Bulletin 81-03 will be made if and when construction is resumed at Marble Hill.

6. Exit Interview

The inspector met with the licensee representatives denoted in Paragraph 1 and summarized the scope and findings of the inspection activities.