

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

REGION III

Report No. 50-546/79-05; 50-547/79-05

Docket No. 50-546; 50-547

License No. CPPR-170; CPPR-171

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

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

Inspection At: Corporate Office, Plainfield, Indiana

Inspection Conducted: May 15, 1979

Inspectors: G. Fiorelli

F. C. Hawkins

F. C. Hawkins

5/25/79

D. W. Hayes

D. W. Hayes

5/25/79

R. C. Knop

R. C. Knop

5/29/79

E. R. Schweibinz

E. R. Schweibinz

5-25-79

Approved By:

Gaston Fiorelli
Gaston Fiorelli, Chief
Reactor Construction and
Engineering Support Branch

5/29/79

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Inspection Summary

Inspection on May 15, 1979 (Report No. 50-546/79-05; 50-547/79-05)

Areas Inspected: This was a special, announced, meeting to discuss previous inspection findings relative to the following topics: QC Inspection of concrete work activities; need for prompt and adequate corrective action; construction deficiency reporting requirements; communications between NRC and PSI; housekeeping; and document control. This inspection involved a total of 15 inspector-hours at the PSI Corporate Office by five inspectors.

Results: No items of noncompliance or deviations were identified.

DETAILS

1. Attendees

Public Service of Indiana (PSI)

H. A. Barker, President and Chief Executive Officer
R. C. Pattyn, Senior Vice President and Assistant to the President
S. W. Shields, Vice President - Electric System
J. Coughlin, Vice President - Nuclear
L. A. Crews, Vice President - Construction
W. E. George, Jr., Vice President - Power
G. L. Hofmockel, Vice President - Engineering
F. R. Hodges, Quality Assurance Manager

NRC

G. Fiorelli, Chief, Reactor Construction and Engineering Support,
Branch (RC&ESB)
R. C. Knop, Chief, Projects Section, (RC&ESB)
D. W. Hayes, Chief, Engineering Support Section No. 1, (RC&ESB)
F. C. Hawkins, Reactor Inspector, (RC&ESB)
E. R. Schweibinz, Reactor Inspector, (RC&ESB)

2. Corporate Meeting

The meeting was held to discuss previous inspection findings relative to the following topics.

a. QC Inspection of Concrete Work Activities

The inspectors discussed with licensee representatives the need for proper and complete implementation of the PSI and Newberg QC inspection program, as pertaining to concrete work activities. Specific examples of concrete construction activities which were not properly controlled or inspected were discussed in detail as follows:

- (1) Concrete Pre-Placement Inspection
 - (a) Reinforcing steel placement.
 - (b) Clean-up of the placement area.

(2) Concreté Post-Placement Inspection

- (a) Identification, tagging, and repair of defective concrete (i.e., honeycomb).
- (b) Concrete curing.

Based on these discussions, it was mutually agreed, that PSI would give additional attention to the site QC inspection program to assure that it is effective and properly implemented to assure the quality of concrete work activities.

Secondly, the inspector expressed concern over Marble Hill Construction Management Manual Procedure 2.7, Section 4.2.3. This procedure allows the concrete contractor to order concrete for placement prior to the required PSI Engineering and QC inspectors final release of the pour area. The inspectors concurred with licensee personnel, that if the QC inspection program was operating properly, this practice would be acceptable. But, in light of the observed QC inspection difficulties, the inspectors strongly recommended that PSI revise Procedure 2.7 to allow concrete to be ordered only after the PSI final release of the pour area. This revision will assure that no unnecessary production pressure is exerted on the responsible QC inspectors.

In addition, the licensee was requested to evaluate selected areas of in-place Auxiliary Building concrete, to provide confidence that no internal voids or honeycomb are present in the completed structure. This request is based on the fact that the licensee is experiencing a higher than normal frequency and severity of honeycomb occurrence in the Auxiliary Building. Based on the results of this investigation the licensee can determine whether further investigation in other buildings is warranted.

b. Need for Prompt and Adequate Corrective Action

The inspectors discussed with the licensee management the apparent lack of trending of contractor identified deficiencies by PSI QA/QC to assure prompt and effective corrective action. It was recognized that the licensee is presently establishing a system to trend the contractor identified deficiencies. The apparent lack of timely responsiveness

by Newberg production personnel to requests made by QA/QC was also discussed.

c. Construction Deficiency Reporting Requirements

The recent item of noncompliance identified in Report No. 50-546/79-04 with regard to reportable deficiencies as defined by 10 CFR 50.55(e) was discussed. A copy of the NRC procedure for processing these items was given to the licensee. The licensee appears to be making some improvement in this area and that message was communicated to them.

d. Communications Between NRC and PSI

The need for openness and candor between the licensee and the NRC was discussed including keeping inspectors informed in a timely manner of events within the inspection purview.

e. Housekeeping

The observed deterioration in the cleanliness of the work areas, especially in the lower areas of the Auxiliary Building and around the containments, was discussed. The licensee concurred that this was a problem and that they had already initiated corrective action.

f. Document Control

The recent item of noncompliance identified in Report No. 50-546/79-04 was discussed. This item was in regard to the lack of control of specifications and documents (other than drawings) in use by contractors at the site.