

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

REGION III

Reports No. 50-546/81-02; 50-547/81-02

Docket Nos. 50-546; 50-547

Licenses No. CPPR-170; CPPR-171

Licensee: Public Service of 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: February 9, 10 and May 7, 1981

Inspectors: <i>E. R. Schweibinz</i> E. R. Schweibinz (February 9 and 10, 1981)	<u>6-3-81</u>
<i>E. R. Schweibinz for</i> J. J. Harrison (February 9 and 10, 1981)	<u>6-3-81</u>
<i>C. C. Williams</i> C. C. Williams (February 9, 10 and May 7, 1981)	<u>4/3/81</u>
<i>F. C. Hawkins</i> F. C. Hawkins (May 7, 1981)	<u>6/3/81</u>

Accompanying Personnel: W. S. Little, February 9 and 10, 1981  
H. J. Wong, IE:HQ, February 9 and 10, 1981  
A. L. Parme, NRC Consultant, February 9, 10 and  
May 7, 1981  
R. C. Hamm, NRC Consultant, February 9, 10 and  
May 7, 1981

Approved By: <i>E. R. Schweibinz for</i> W. S. Little, Chief Reactor Projects Section 2C	<u>6-3-81</u>
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Inspection Summary

Inspection during the period of February 9, 10 and May 7, 1981 (Reports No. 50-546/81-02; 50-547/81-02)

Areas Inspected: Resolution of NRC questions with regard to the adequacy of in-place concrete. This inspection involved a total of 80 inspector-hours onsite by five NRC inspectors, including 15 inspector-hours during off-shifts.

Results: No items of noncompliance or deviations were identified.

DETAILS

Principal Persons Contacted

Public Service of Indiana (PSI)

\*S. W. Shields, Senior Vice President, Nuclear Division  
W. M. Petro, Project Director  
L. Ramsett, QA Manager  
\*J. Norris, QA Consultant  
\*D. B. Ingmire, Technical Consultant  
N. I. Reichel, Project Contract Manager  
B. R. Morrison, Superintendent Civil Q.E.  
G. T. Warner, Construction Engineering Superintendent  
A. F. Varney, Supervising Civil Engineer  
\*J. Keys, QA Administrative Assistant

Newberg-Marble Hill (N-MH)

D. Stegemoller, Vice President, Power Construction  
\*D. X. Maxwell, Project QC Supervisor  
\*M. D. Rose, Q.C.

Sargent and Lundy (S&L)

A. Morcos, Project Engineer  
O. Zaben, Senior Structural Project Engineer  
R. Hooks, Supervisor Design Engineering  
A. M. Weiss, Concrete Technologist

Portland Cement Association (PCA)

E. A. B. Salse  
R. Bartizak

Muenow and Associates, Inc.

R. A. Muenow, NDE Consultant

Save the Valley

\*Dr. M. A. Cassaro, Consultant

\*Denotes those present at the exit meeting.

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

## Functional or Program Areas Inspected

### Evaluation of the Adequacy of Inplace Concrete

1. The following was performed on February 9 and 10, 1981.

The NRC independent concrete consultants continued to review the Sargent and Lundy Report SL-3753, Revision 1, November 21, 1980 (Evaluation of Inplace Concrete). Questions generated during this review were answered by the licensee and his representatives. The two NRC consultants, R. C. Hamm and A. L. Parme were accompanied by Dr. M. A. Cassaro, representing Save the Valley, a public interest group. Included in this inspection was visual inspection and witnessing of additional microseismic testing performed by Mr. R. A. Muenow, an NDE Consultant (Muenow and Associates, Inc.). Mr. Muenow also answered questions with regard to the microseismic testing that he performed in the summer of 1979.

2. The independent concrete consultant team, consisting of Messrs. Parme, Hamm, and Cassaro, returned to the Marble Hill site on May 7, 1981. The visit was planned to allow the consultants to observe the in-process concrete repair work for selected patch and repair areas. N-MH repair/inspection Procedures WPN 25, WPN 25-02, and QCP 10.06 were reviewed by the team. In addition, the statistical evaluation of compressive strength test results, compiled by S&L in accordance with ACI 214, were reviewed.

At the conclusion of their inspection effort, the consultant team stated that, in their opinion, the repair/inspection procedures were adequately written and being properly implemented. They further stated that no serious structural deficiencies had been disclosed to date.

It was understood at the close of the inspection that the consultants do not intend any further site reviews.

### Exit Meeting

The inspectors met with the site staff representatives (denoted in Paragraph 1) on February 10, 1981. The inspectors summarized the scope and findings of the inspection and Mr. C. C. Williams introduced Mr. W. S. Little as the NRC projects section chief for the Marble Hill site effective February 16, 1981.