



Consumers
Power
Company

Donald B Miller, Jr.
Site Manager
Midland Project

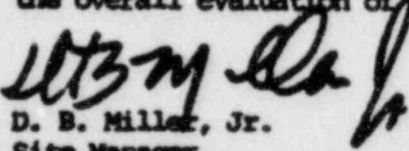
Midland Project: PO Box 1803, Midland, MI 48640 - (517) 631-8880

February 24, 1983

Mr. W. D. Shafer, Chief
Midland Project Section
U. S. Nuclear Regulatory Commission
Region III
799 Roosevelt Road
Glen Ellyn, IL 60137

MIDLAND PROJECT GND 7020
REVISIONS OF THE SOILS REMEDIAL INDEPENDENT ASSESSMENT SCOPE
File: 0486.15 UFI: 42*05*22*04 CSC-6564
12*32

Based on our discussions with Mr. Wayne Shafer on February 18, 1983, please find the attached letter from J. A. Mooney to Stone and Webster regarding revisions to the Soils Remedial Independent Assessment Scope. It is our understanding that this revision will permit NRC Region III to conclude the overall evaluation of Stone and Webster as an independent assessor.


D. B. Miller, Jr.
Site Manager

DEM/JAM/lrb



**Consumers
Power
Company**

*J. A. Mooney
Executive Manager
Midland Project Office*

General Office: 1045 West Fennell Road, Jackson, MI 49201 • (517) 786-8774

February 24, 1983

Mr. A. S. Lucke
Stone and Webster Michigan, Inc
PO Box 2325
Boston, MA 02107

FILE 0485.16 SERIAL 20498

Dear Mr. Lucke:

In accordance with Consumers Power Company Specification CC-100, Rev 1, "Independent Assessment of Auxiliary Building Underpinning", Section 2.1 (j), Stone and Webster Michigan, Inc shall expand the scope of the independent assessment of Soils Remedial Activities to include the following:

- 1) Provide a QA overview and assessment of the design work packages to ensure accuracy and adequacy. This overview is to insure conformance to procedural and programmatic requirements.
- 2) Provide a QA overview and assessment of the QC inspector requalification and certification program.
- 3) Provide a QA overview and assessment of the training conducted for all personnel in the soils remedial work effort.
- 4) Expand the work contract to include an assessment of all underpinning work on safety related structures on which underpinning work is done while the contract with Stone and Webster Michigan, Inc is in effect.

This scope revision shall become effective immediately.

Very truly yours,

J. A. Mooney



UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION III
799 ROOSEVELT ROAD
GLEN ELLYN, ILLINOIS 60137

FEB 18 1983

MEMORANDUM FOR: R. F. Warnick, Director, Office of Special Cases
FROM: W. D. Shafer, Chief, Section 2, Midland
SUBJECT: CREDENTIAL CHECKS ON STONE AND WEBSTER PERSONNEL

As directed by the Regional Administrator I have conducted a credential check of the key Stone and Webster personnel involved in the third party independent assessment of the Midland soils remedial work. These personnel are:

A. S. Lucks, Project Manager, previously worked on Shoram and North Anna (1976), Boston office

W. E. Kilker, Lead/Geotechnical Engineer, previously worked at Shoram (1976 to present)

L. T. Rouen, QA/QC, previously worked at Shoreham (1973-1975)

B. Holsinger, QA/QC, previously worked at Nine Mile 2 (1981 to present)

A. Scott, Construction Engineer, previously worked at River Bend (1976 to present)

The credential check consisted of telecommunications with the following utility representatives:

W. Stewart, Vice President, Nuclear Operations, North Anna

M. Sheldon, Superintendent of Construction, Nine Mile 2

J. Kelly, Construction QA Manager, Shoreham

C. Sorrell, Supervisor Civil Engineering, North Anna

W. Spencer, Vice President, Power Station Engineering, North Anna

R. Spence, Superintendent, Field Quality Control

6406020074

FEB 18 1983

During my conversation with these individuals I asked if the utility had experienced any unacceptable performance by the S&W personnel involved in the work at their particular site. In each case they stated that they had no knowledge of any poor performance on the part of the persons they knew.

As a result of these testimonials I have discontinued any further credential checks.

W. D. Shafer
W. D. Shafer, Chief
Section 2, Midland

UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION

ATOMIC SAFETY AND LICENSING BOARD

In the Matter of
CONSUMERS POWER COMPANY
(Midland Plant, Units 1 and 2

Docket No. 50-329 OM
50-330 OM
Docket No. 50-329 OL
50-330 OL

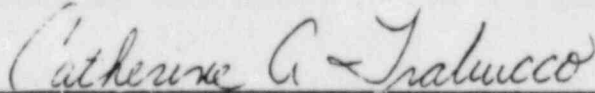
February 14, 1983

AFFIDAVIT OF 

My name is A.S. Lucks. I am employed by Stone & Webster Engineering Corporation as Project Manager.

I am currently assigned to the team which is conducting an independent assessment of soils work at the Midland Nuclear Plant site. Prior to being given this assignment, I have never worked on any job or task associated with the Midland Project, or any job or task for or on behalf of Consumers Power Company, Bechtel, or the Mergentime Company relating to soils of underpinning. I have never been employed by Consumers Power Company, Bechtel, or Mergentime Company. I do not own any shares of Consumers Power Company, Bechtel, or Mergentime stock. Mutual funds or other funds in which I may have a beneficial interest, but over which I have no control, may own shares of Consumers Power Company, Bechtel, or Mergentime stock, of which I am unaware. A list of such funds in which I have an interest are attached. I have no relatives which are or have been employed by Consumers Power Company, Bechtel, or Mergentime Company.

Sworn and Subscribed Before Me This 14th Day of February 1983



Notary Public
Suffolk County, Massachusetts

My Commission Expires November 8, 1985

Catherine Trabucco
NOTARY PUBLIC

For the Commonwealth of Massachusetts
My Commission Expires Nov. 8, 1985

UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION

ATOMIC SAFETY AND LICENSING BOARD

In the Matter of
CONSUMERS POWER COMPANY
(Midland Plant, Units 1 and 2

Docket No. 50-329 OM
50-330 OM
Docket No. 50-329 OL
50-330 OL

February 14, 1983

AFFIDAVIT OF

W. E. Kilker

My name is W.E. Kilker. I am employed by Stone & Webster Engineering Corporation as Project Engineer.

I am currently assigned to the team which is conducting an independent assessment of soils work at the Midland Nuclear Plant site. Prior to being given this assignment, I have never worked on any job or task associated with the Midland Project, or any job or task for or on behalf of Consumers Power Company, Bechtel, or the Mergentime Company relating to soils of underpinning. I have never been employed by Consumers Power Company, Bechtel, or Mergentime Company. I do not own any shares of Consumers Power Company, Bechtel, or Mergentime stock. Mutual funds or other funds in which I may have a beneficial interest, but over which I have no control, may own shares of Consumers Power Company, Bechtel, or Mergentime stock, of which I am unaware. A list of such funds in which I have an interest are attached. I have no relatives which are or have been employed by Consumers Power Company, Bechtel, or Mergentime Company.

Sworn and Subscribed Before Me This 14th Day of February 1983

Catherine A. Trabucco

Notary Public

Suffolk County, Massachusetts

My Commission Expires November 8, 1985

Catherine Trabucco

NOTARY PUBLIC

For the Commonwealth of Massachusetts

My Commission Expires Nov. 8, 1985

UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION

ATOMIC SAFETY AND LICENSING BOARD

In the Matter of
CONSUMERS POWER COMPANY
(Midland Plant, Units 1 and 2)

Docket No 50-329 OM
50-330 OM
Docket No 50-329 OL
50-330 OL

February 11, 1983

AFFIDAVIT OF

Paul F Barry

My name is PAUL F BARRY. I am employed by STONE & WEBSTER ENGINEERING CORP
as a STRUCTURAL ENGINEER

I am currently assigned to the team which is conducting an independent assessment of soils work at the Midland Nuclear Plant site. Prior to being given this assignment, I have never worked on any job or task associated with the Midland Project, or any job or task for or on behalf of Consumers Power Company, Bechtel, or the Mergentime Company relating to soils or underpinning. I have never been employed by Consumers Power Company, Bechtel, or Mergentime Company. I do not own any shares of Consumers Power Company, Bechtel, or Mergentime stock. Mutual funds or other funds in which I may have a beneficial interest, but over which I have no control, may own shares of Consumers Power Company, Bechtel, or Mergentime stock, of which I am unaware. A list of such funds in which I have an interest are attached. I have no relatives which are or have been employed by Consumers Power Company, Bechtel, or Mergentime Company.

Sworn and Subscribed Before Me This 11th Day of Feb 1983 PP

Patricia A Puffer
Notary Public
Jackson County, Michigan
Bay

My Commission Expires 3-4-86

UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION

ATOMIC SAFETY AND LICENSING BOARD

In the Matter of
CONSUMERS POWER COMPANY
(Midland Plant, Units 1 and 2)

Docket No 50-329 OM
50-330 OM
Docket No 50-329 OL
50-330 OL

February 11, 1983

AFFIDAVIT OF

A.B. Scott

My name is A.B. Scott. I am employed by Stone & Webster
as Engineer.

I am currently assigned to the team which is conducting an independent assessment of soils work at the Midland Nuclear Plant site. Prior to being given this assignment, I have never worked on any job or task associated with the Midland Project, or any job or task for or on behalf of Consumers Power Company, Bechtel, or the Mergentime Company relating to soils or underpinning. I have never been employed by Consumers Power Company, Bechtel, or Mergentime Company. I do not own any shares of Consumers Power Company, Bechtel, or Mergentime stock. Mutual funds or other funds in which I may have a beneficial interest, but over which I have no control, may own shares of Consumers Power Company, Bechtel, or Mergentime stock, of which I am unaware. A list of such funds in which I have an interest are attached. I have no relatives which are or have been employed by Consumers Power Company, Bechtel, or Mergentime Company.

Sworn and Subscribed Before Me This 14th Day of Feb 1983

Patricia A. Puffer
Notary Public

Bay
Jackson County, Michigan

My Commission Expires 3-4-86

I was employed by Bechtel Corporation from March 1951 to July 1968 and from June 1972 to September 1976. MS

UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION

ATOMIC SAFETY AND LICENSING BOARD

In the Matter of
CONSUMERS POWER COMPANY
(Midland Plant, Units 1 and 2)

Docket No 50-329 OM
50-330 OM
Docket No 50-329 OL
50-330 OL

February 11, 1983

AFFIDAVIT OF Lawrence T. Rouer

My name is Lawrence T. Rouer I am employed by Stone and Webster Engr.' Corp.
as Senior Quality Assurance Engineer.

I am currently assigned to the team which is conducting an independent assessment of soils work at the Midland Nuclear Plant site. Prior to being given this assignment, I have never worked on any job or task associated with the Midland Project, or any job or task for or on behalf of Consumers Power Company, Bechtel, or the Mergentime Company relating to soils or underpinning. I have never been employed by Consumers Power Company, Bechtel, or Mergentime Company. I do not own any shares of Consumers Power Company, Bechtel, or Mergentime stock. Mutual funds or other funds in which I may have a beneficial interest, but over which I have no control, may own shares of Consumers Power Company, Bechtel, or Mergentime stock, of which I am unaware. A list of such funds in which I have an interest are attached. I have no relatives which are or have been employed by Consumers Power Company, Bechtel, or Mergentime Company.

Sworn and Subscribed Before Me This 11th Day of Feb 1983 ¹⁹⁸³

Patricia A. Lupper
Notary Public

Jackson County, Michigan

My Commission Expires 3-4-86

UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION
ATOMIC SAFETY AND LICENSING BOARD

In the Matter of
CONSUMERS POWER COMPANY
(Midland Plant, Units 1 and 2)

Docket No. 50-329 OM
50-330 OM
Docket No. 50-329 OL
50-330 OL

February 11, 1983

AFFIDAVIT OF _____

Barry L. Holsinger
My name is Barry L. Holsinger. I am employed by Stone & Webster
as QA Engineer.

I am currently assigned to the team which is conducting an independent assessment of soils work at the Midland Nuclear Plant site. Prior to being given this assignment, I have never worked on any job or task associated with the Midland Project, or any job or task for or on behalf of Consumers Power Company, Bechtel, or the Mergentime Company relating to soils or underpinning. I have never been employed by Consumers Power Company, Bechtel, or Mergentime Company. I do not own any shares of Consumers Power Company, Bechtel, or Mergentime stock. Mutual funds or other funds in which I may have a beneficial interest, but over which I have no control, may own shares of Consumers Power Company, Bechtel, or Mergentime stock, of which I am unaware. A list of such funds in which I have an interest are attached. I have no relatives which are or have been employed by Consumers Power Company, Bechtel, or Mergentime Company.

Barry L. Holsinger
Sworn and Subscribed Before Me This 11th Day of February 1983

Nancy S. Noble
Notary Public

NANCY S. NOBLE
Notary Public in the State of New York
Qualified in Gen. Co. No. 24-2077730
My Commission Expires March 20, 1983

My Commission Expires _____

TRK

UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION
ATOMIC SAFETY AND LICENSING BOARD

In the Matter of
CONSUMERS POWER COMPANY
(Midland Plant, Units 1 and 2)

Docket No 50-329 Oel
50-330 Oel
Docket No 50-329 OL
50-330 OL

February 11, 1983

AFFIDAVIT OF Thomas R. Kuesel

My name is Thomas R. Kuesel. I am employed by Parsons Brinckerhoff Quade & Douglas, Inc.
as Senior Vice President.

I am currently assigned to the team which is conducting an independent assessment of soils work at the Midland Nuclear Plant site. Prior to being given this assignment, I have never worked on any job or task associated with the Midland Project, or any job or task for or on behalf of Consumers Power Company, Bechtel, or the Mergentime Company relating to soils or underpinning. I have never been employed by Consumers Power Company, Bechtel, or Mergentime Company. I do not own any shares of Consumers Power Company, Bechtel, or Mergentime stock. Mutual funds or other funds in which I may have a beneficial interest, but over which I have no control, may own shares of Consumers Power Company, Bechtel, or Mergentime stock, of which I am unaware. A list of such funds in which I have an interest are attached. I have no relatives which are or have been employed by Consumers Power Company, Bechtel, or Mergentime Company.

Sworn and Subscribed Before Me This 14 Day of Feb 1983

James J. Boyd
Notary Public
Jackson County, Michigan
NOTARY PUBLIC STATE OF NEW YORK
No. 31-60
Commission Expires March 31, 1983

* From 1963 to 1967 I was employed by Parsons Brinckerhoff-Tudor-Bechtel, General Engineering Consultants for design and construction management of the San Francisco Bay Area Rapid Transit System, in the capacity of Assistant Manager of Engineering.

UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION
ATOMIC SAFETY AND LICENSING BOARD

In the Matter of
CONSUMERS POWER COMPANY
(Midland Plant, Units 1 and 2)

Docket No 50-329 OM
50-330 OM
Docket No 50-329 OL
50-330 OL

February 11, 1983

AFFIDAVIT OF

Louis G. Silano

My name is Louis G. Silano I am employed by Parsons Brinckerhoff Quade & Douglas, Inc.
as Technical Director.

Major Structures

I am currently assigned to the team which is conducting an independent assessment of soils work at the Midland Nuclear Plant site. Prior to being given this assignment, I have never worked on any job or task associated with the Midland Project, or any job or task for or on behalf of Consumers Power Company, Bechtel, or the Mergentime Company relating to soils or underpinning. I have never been employed by Consumers Power Company, Bechtel, or Mergentime Company. I do not own any shares of Consumers Power Company, Bechtel, or Mergentime stock. Mutual funds or other funds in which I may have a beneficial interest, but over which I have no control, may own shares of Consumers Power Company, Bechtel, or Mergentime stock, of which I am unaware. A list of such funds in which I have an interest are attached. I have no relatives which are or have been employed by Consumers Power Company, Bechtel, or Mergentime Company.

Sworn and Subscribed Before Me This 14 Day of Feb 1983

James G. Boyd

Notary Public
Jackson County, Michigan

My Commission Expires

JAMES G. BOYD
NOTARY PUBLIC, STATE OF NEW YORK
No. 31222113
Qualified in Jackson County
Commission Expires March 20, 1984

UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION

ATOMIC SAFETY AND LICENSING BOARD

In the Matter of
CONSUMERS POWER COMPANY
(Midland Plant, Units 1 and 2)

Docket No 50-329 OM
50-330 OM
Docket No 50-329 OL
50-330 OL

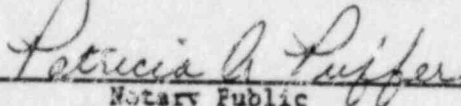
February 11, 1983

AFFIDAVIT OF 

My name is W.C. PARISH. I am employed by Parsons Brinckerhoff Quade & Dodge
as Structural Engineer.

I am currently assigned to the team which is conducting an independent assessment of soils work at the Midland Nuclear Plant site. Prior to being given this assignment, I have never worked on any job or task associated with the Midland Project, or any job or task for or on behalf of Consumers Power Company, Bechtel, or the Mergentime Company relating to soils or underpinning. I have never been employed by Consumers Power Company, Bechtel, or Mergentime Company. I do not own any shares of Consumers Power Company, Bechtel, or Mergentime stock. Mutual funds or other funds in which I may have a beneficial interest, but over which I have no control, may own shares of Consumers Power Company, Bechtel, or Mergentime stock, of which I am unaware. A list of such funds in which I have an interest are attached. I have no relatives which are or have been employed by Consumers Power Company, Bechtel, or Mergentime Company.

Sworn and Subscribed Before Me This 11th Day of Feb 1983 pp



Notary Public

Bay
Jackson County, Michigan

My Commission Expires 3-4-86

UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION

ATOMIC SAFETY AND LICENSING BOARD

In the Matter of
CONSUMERS POWER COMPANY
(Midland Plant, Units 1 and 2)

Docket No 50-329 OM
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50-330 OL

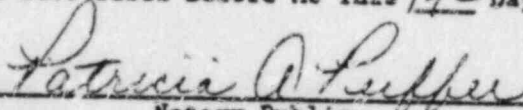
February 11, 1983

AFFIDAVIT OF 

My name is Jerrold Ratner. I am employed by Parsons Brinckerhoff, Quade and Douglas
as Manager, Construction.

I am currently assigned to the team which is conducting an independent assessment of soils work at the Midland Nuclear Plant site. Prior to being given this assignment, I have never worked on any job or task associated with the Midland Project, or any job or task for or on behalf of Consumers Power Company, Bechtel, or the Mergentime Company relating to soils or underpinning. I have never been employed by Consumers Power Company, Bechtel, or Mergentime Company. I do not own any shares of Consumers Power Company, Bechtel, or Mergentime stock. Mutual funds or other funds in which I may have a beneficial interest, but over which I have no control, may own shares of Consumers Power Company, Bechtel, or Mergentime stock, of which I am unaware. A list of such funds in which I have an interest are attached. I have no relatives which are or have been employed by Consumers Power Company, Bechtel, or Mergentime Company.

Sworn and Subscribed Before Me This 14th Day of Feb 1983


Notary Public

~~Jackson~~ Bay
County, Michigan

My Commission Expires 3-4-86

UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION

ATOMIC SAFETY AND LICENSING BOARD

In the Matter of
CONSUMERS POWER COMPANY
(Midland Plant, Units 1 and 2)

Docket No 50-329 OL
50-330 OL
Docket No 50-329 OL
50-330 OL

February 11, 1983

AFFIDAVIT OF Vincent J. Madill

My name is Vincent J. Madill as employed by Parsons Brinckerhoff Quade & Douglas, Inc.
as Senior Engineer.

I am currently assigned to the team which is conducting an independent assessment of soils work at the Midland Nuclear Plant site. Prior to being given this assignment, I have never worked on any job or task associated with the Midland Project, or any job or task for or on behalf of Consumers Power Company, Bechtel, or the Mergentime Company relating to soils or underpinning. I have never been employed by Consumers Power Company, Bechtel, or Mergentime Company. I do not own any shares of Consumers Power Company, Bechtel, or Mergentime stock. Mutual funds or other funds in which I may have a beneficial interest, but over which I have no control, may own shares of Consumers Power Company, Bechtel, or Mergentime stock, of which I am unaware. A list of such funds in which I have an interest are attached. I have no relatives which are or have been employed by Consumers Power Company, Bechtel, or Mergentime Company.

Sworn and Subscribed Before Me This 14 Day of Feb 1983 1983

James S. Boyd
Notary Public
~~Jackson County, Michigan~~

My Commission Expires

JAMES S. BOYD
NOTARY PUBLIC, STATE OF New York
No. 31-4613795
Qualified in New York County
Commission Expires March 30, 1983



UNITED STATES
 NUCLEAR REGULATORY COMMISSION
 REGION III
 799 ROOSEVELT ROAD
 GLEN ELLYN, ILLINOIS 60137

February 15, 1983

MEMORANDUM FOR: R. F. Warnick, Director, Office of Special Cases
 THRU: W. D. Shafer, Chief, Midland Section
 FROM: R. B. Landsman, Reactor Inspector, Midland Section
 SUBJECT: LICENSEE PERFORMANCE ON PIERS 12E and 12W

RIII on December 9, 1982, authorized CPCo to initiate work activities pertaining to the drift, excavation and installation of Piers 12E and 12W. Subsequent to that authorization the licensee began work on December 13, 1982. Due to the Diesel Generator Building Inspection I have had only enough time to perform five inspections to determine the acceptability of the licensee's work in regards to these piers including removal of fill concrete, shaft excavation and bracing, bell excavation and bracing, and reinforcing details and proposed concreting activities.

I have identified three concerns since underpinning work began which have been subsequently corrected or are in the process of being corrected by the licensee. They are:

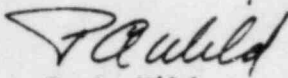
- a) That the craftworkmen were not receiving the required amount of specialized remedial soils underpinning training. The licensee has agreed to expand the scope of craft training, but does not have the details worked out to date.
- b) That the licensee wanted to use a super plasticizer as an additive to the concrete mix in lieu of good concreting practices, i.e., consolidation by vibration. The licensee after what I consider to be excessive discussions finally agreed to vibrate all underpinning concrete in accordance with good engineering practice.
- c) That the third party independent assessment team is not reviewing the design documents for technical adequacy. They are only doing implementation review to assure that the design documents are being followed. From discussions with Stone and Webster personnel, it was determined that this important parameter was not included in their contract. The licensee is presently considering including this in the contract documents.

Besides these three concerns no other issues or deviations from regulatory requirements have been identified.

R. B. Landsman for
 R. B. Landsman
 Reactor Inspector

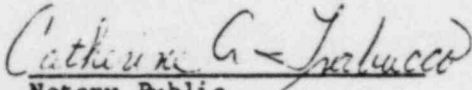
8303210312

Under separate cover we are sending signed affidavits for each member of the Assessment Team. If you have any questions, please contact Mr. A. Stanley Lucks at (617) 589-2067.



P. A. Wild
Vice President

Sworn and subscribed to before me on this 14th day of February, 1983.



Notary Public
Suffolk County Massachusetts
My Commission Expires November 8, 1985.

Catherine Trabucco

NOTARY PUBLIC

For the Commonwealth of Massachusetts
My Commission Expires Nov. 8, 1985



STONE & WEBSTER MICHIGAN, INC.

P.O. BOX 2325, BOSTON, MASSACHUSETTS 02107

PRINCIPAL STAFF	
✓ SA - 1087	ENR
D/RA	EGS
A/RA	EDD
W/RS	EDU
DR/A	RO
CR/AS	
DEP	
ML	
OL	FILE

Mr. J. G. Keppler
 Administrator, Region III
 U.S. Nuclear Regulatory Commission
 799 Roosevelt Road
 Glen Ellyn, IL 60137

February 14, 1983
 J.O. NO. 14358
 MPS-8

RE: DOCKET NO. 50-329/330
 MIDLAND PLANT - UNITS 1 AND 2
 INDEPENDENT ASSESSMENT OF AUXILIARY BUILDING UNDERPINNING
 ASSESSMENT OF WORK ON PIERS W12 AND E12

As of February 11, 1983 the Stone & Webster - Parsons Brinckerhoff Assessment Team has observed the excavation, placing of reinforcement, and concreting of underpinning pier W12, and the excavation, and placing of reinforcement for underpinning pier E12. In addition, the Assessment Team has reviewed the drawings, procedures and other documents pertaining to the underpinning work and has observed the performance of the Quality Assurance and Quality Control Organizations during the progress of the work.

During the period that the Assessment Team has been on site, daily meetings have been held with Construction, Quality and Engineering personnel to obtain additional information and discuss observations.

The Assessment Team has issued twenty Weekly Reports to the U.S. Nuclear Regulatory Commission. These reports have described the activities of the Assessment Team and summarized their observations and findings.

The Assessment Team has issued a total of five Nonconformance Identification Reports. Four of these Nonconformance Identification Reports have been closed out to the satisfaction of the Assessment Team. The remaining open Nonconformance Identification Report was issued on February 10, 1983 and the Assessment Team feels that it can be closed out in the near future without impacting the progress of the underpinning.

The underpinning work is being performed in accordance with the construction and quality procedures. As the work has progressed, the procedures have been modified based upon experience gained during the construction of piers W12 and E12. The Assessment Team feels that these minor changes are appropriate and will have a positive effect on the quality of the underpinning work.

~~0302230157~~

FEB 15 1983

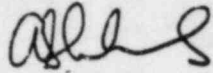
JGK

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February 14, 1983

Based upon these observations and findings, the Assessment Team is of the opinion that additional piers could be released for construction. This will benefit the quality of the work by allowing the Contractor to maintain the experienced labor teams from piers W12 and E12.

If you have any questions, please contact me at (617) 589-2067.



A.S. Lucks
Project Manager



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

February 1, 1982

WDircks
KCornell
TRehm
VStello
CMichelson
RDeYoung
GCunningham
HDenton
ECase
DEisenhut
BBuckley
SCavanaugh
REngelken, RV
CA
Secy
EDO #11091 ✓

The Honorable John D. Dingell, Chairman
Committee on Energy and Commerce
United States House of Representatives
Washington, D.C. 20515

Dear Mr. Chairman:

We share the concerns expressed in your November 13, 1981 letter regarding the implication of the recent seismic design errors detected at the Diablo Canyon nuclear power plant. The implication of these errors has been and will be thoughtfully considered by the Commission.

The timing of the detection of these errors, so soon after authorization for low-power operation, was indeed unfortunate and it is quite understandable that the Congress' and the public's perception of our licensing process has been adversely affected. Had this information been known to us on or prior to September 22, 1981, I am sure that the facility license would not have been issued until the questions raised by these disclosures had been resolved.

Because of these design errors, on November 19, 1981 we suspended Pacific Gas and Electric Company's (PG&E) license pending satisfactory completion of the following:

1. The conduct of an independent design review program of all safety-related activities performed prior to June 1, 1978 under all seismic-related service contracts used in the design of safety-related structures, systems and components.
2. A technical report that fully assesses the basic cause of all design errors identified by this program, the significance of the errors found and their impact on facility design.
3. PG&E's conclusions of the effectiveness of the design verification program in assuring the adequacy of facility design.
4. A schedule for completing any modifications to the facility that are required as a result of the design verification program.

In addition, the Commission ordered PG&E to provide for NRC review and approval:

1. A description and discussion of the corporate qualifications of the company or companies that PG&E would propose to carry out the

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independent design verification program, including information that demonstrates the independence of these companies.

2. A detailed program plan for conducting the design verification program.

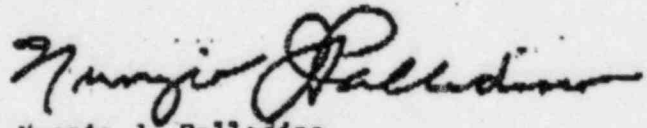
In recognition of the need to assure the credibility of the design verification program, NRC will decide on the acceptability of the companies proposed by PG&E to conduct this program after providing the Governor of California and Joint-Intervenors in the pending operating licensing proceeding 15 days for comment. Also, the NRC will decide on the acceptability of the plan proposed by PG&E to conduct the program, after providing the Governor of California and the Joint Intervenors in the pending operating license proceeding 15 days for comment.

Prior to authorization to proceed with fuel loading, the NRC must be satisfied with the results of the seismic design verification program and with any plant modification resulting from that program that may be necessary prior to fuel loading. The NRC may impose additional requirements prior to fuel loading necessary to protect health and safety based upon its review of the program or any of the information provided by PG&E. This may include some or all of the requirements specified in the letter to PG&E dated November 19, 1981.

Responses to each of the four questions in your letter are enclosed.

A decision to permit PG&E to proceed with fuel loading will not be made until all the actions contained in the Commission's November 19, 1981 Order are fully satisfied.

Sincerely,



Nunzio J. Palladino

cc: Rep. Carlos Moorhead

Enclosures:

1. Commission Order, dated 11/19/81
2. Ltr from Office of Nuclear Reactor Regulation, NRC to PG&E dated 11/19/81
3. Responses to Questions

RESPONSES TO QUESTIONS IN NOVEMBER 13, 1981 LETTER TO
CHAIRMAN PALLADINO FROM CONGRESSMEN DINGELL AND OTTINGER

Fax
to: Steve Lewis
RLL
from: Steve Burns
ELD

Question 1: Please provide, prior to the issuance of the 50.54(f) letter, the definition of the terms (i) "independent," (ii) "competent," (iii) "integrity," and (iv) "complete."

3-Page

Response: Although one of the options under consideration by the Commission was a 50.54(f) letter, the Commission decided to suspend PG&E's license to load fuel and conduct tests up to 5 percent power by Memorandum and Order dated November 19, 1981, pending satisfactory completion of certain actions, including the conduct of a design verification program. Also, a staff letter of the same date required PG&E to carry on other design verification programs prior to issuance of any license authorizing operation above 5 percent power.

The most important factor in NRC's evaluation of the individuals or companies proposed by Pacific Gas and Electric to complete the required design verification program is their competence. This competence must be based on knowledge and experience in the matters under review. These individuals or companies should also be independent. Independence means that the individuals or companies selected must be able to provide an objective, dispassionate technical judgment, provided solely on the basis of technical merit. Independence also means that the design verification program must be conducted by companies or individuals not previously involved with the activities at Diablo Canyon that they will now be reviewing. Their integrity must be such that they are regarded as reputable companies or individuals. The word "complete" applies to the NRC requirement for review of all quality assurance procedures and controls used by each pre-June 1978 seismic and non-seismic service related contractor and by PG&E with regard to that contract. A comparison of these procedures and controls with the related criteria of Appendix B to 10 CFR 50 is also required. Any deficiencies or weaknesses in the quality assurance procedures and controls of the contractor and PG&E will be investigated in more detail. In addition, calculations will be checked in an audit program. Numerical calculations for which the original basis cannot be determined will be recalculated to verify the initial design input.

DA
12:50
11/23/82

Question 2:

Please provide the criteria to be used in assuring that the proposed audit will be "independent."

Response:

The competence of the individuals or companies is the most important factor in the selection of an auditor. Also, the companies or individuals may not have had any direct previous involvement with the activities at Diablo Canyon that they will be reviewing.

In addition, the following factors will be considered in evaluating the question of independence:

- 1) Whether the individuals or companies involved had been previously hired by PG&E to do similar seismic design work.
- 2) Whether any individual involved had been previously employed by PG&E (and the nature of the employment).
- 3) Whether the individual owns or controls significant amounts of PG&E stock.
- 4) Whether members of the present household of individuals involved are employed by PG&E.
- 5) Whether any relatives are employed by PG&E in a management capacity.

In addition to the above considerations, the following procedural guidelines will be used to assure independence:

- 1) An auditable record will be provided of all comments on draft or final reports, any changes made as a result of such comments, and the reasons for such changes; or the consultant will issue only a final report (without prior licensee comment).
- 2) NRC will assume and exercise the responsibility for serving the report on all parties.

Question 3:

In view of the licensee's past performance, and that of its subcontractors, what procedures will be utilized to ensure that there are not conflicts of interests in the performance of any required audits?

Response:

We are requiring that PG&E provide the NRC with a description and a discussion of the corporate qualifications of the companies proposed to carry out the various design verification programs, including information that demonstrates the independence of these companies. This information will be provided to the Governor of California and the Joint Intervenors for comments. Based upon review of the information provided by PG&E and the comments of the Governor and Joint Intervenors, the NRC will decide on the acceptability of the companies with respect to their "independence" and "competence." In addition, approval will not be given by NRC if we determine that a potential conflict of interest exists in the performance of any required audits that cannot be adequately addressed by procedural safeguards.

Question 4:

What plans does the NRC have to ensure that a similar situation will not arise at other plants now under construction? What, if any, additional quality control procedures does the NRC propose to institute in its inspection program?

Response:

The Commission is developing an action plan that will result in improved NRC review of quality assurance programs at operating nuclear power plants and nuclear power plants under construction. The details of the action plan will be available in the near future.

LEGAL DEPARTMENT

Lawrence B Lindemer
Vice President
and General Counsel

Judd L Bacon
Allen B Bass
O K Peterson
William E Wisner
Managing Attorneys

Robert J Byers
Howard E Clark
Baronny E Hagen
Senior Attorneys

Francis X Berkenhimer
J E Brunner
Julie A Canham-Rogers
H Richard Chambers
Charles O Dawson
James W Demsey
John P Dickey
Kevin F Duffy
George F Hill
Laurene H Horitzny
Susan Kirk
Wayne A Kirkby
Frank R Knox
James W Koessier
Albert D McCallum
David A Mikelonis
Paula H Mills
Vincent P Provenzano
Jon R Robinson
David R Rood
Gregory A Sande
Jack D Shumate
Walter Scott Spere
A T Udrys
Dennis L Vigione
Theodore J Vogel
Michael G Wilson
Attorneys



General Offices: 212 West Michigan Avenue, Jackson, MI 49201 • (517) 788-0650

November 15, 1982

PRINCIPAL STAFF			
RA		OL	
D/RA		SNF	
A/RA		SP	01073
OPSRP		PAO	
DEP&OS		SLO	
DESTP			
NL			
OL		FILE	100

William D Paton
Counsel for the NRC Staff
U S Nuclear Regulatory Commission
Washington, DC 20555

MIDLAND NUCLEAR COGENERATION PLANT
MIDLAND DOCKET NOS 50-329, 50-330
STONE & WEBSTER (S&W)

Recently, questions have been raised concerning the use of the Stone and Webster Company (S&W) to conduct an appraisal of underpinning of the Midland auxiliary building. A public meeting regarding these issues, among others, was conducted in Washington on November 5, 1982.

During that meeting, representatives of the NRC Staff asked certain questions touching upon the independence of the Stone and Webster Company. To respond more fully to these questions, Consumers asked Stone & Webster to describe jobs undertaken by S&W on behalf of Consumers Power Company and to determine S&W's holdings of Consumers' securities. The attached letter is S&W's response to those questions.

According to the attached letter, Stone & Webster has carried out, and is carrying out, no work for Consumers Power Company in relation to the soils remedial project, other than the present audit. S&W has undertaken two relatively limited assignments not related to soils on behalf of the Midland Project. The letter also indicated that Stone & Webster's or its subsidiaries have no holdings of Consumers Power Company stocks.

James E Brunner
James E Brunner

BOO1

CC DSHood, NRC
Billie Gardie
OM/CL Service List

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PDR ADOCK 05000329

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Prepared By D. Hood

SERVICE LIST

Frank J Kallay, Esq
Attorney General of the
State of Michigan
Carole Steinberg, Esq
Assistant Attorney General
Environmental Protection Div
720 Law Building
Lansing, MI 48913

Myron M Cherry, Esq
One IBM Plaza
Suite 4501
Chicago, IL 60611

Mr Wendell E Marshall
RFD 10
Midland, MI 48640

Charles Bechhoefer, Esq
Atomic Safety & Licensing
Board Panel
U S Nuclear Regulatory Comm
Washington, D C 20555

Dr Frederick P Cowan
6152 N Verde Trail
Atp B-125
Boca Raton, FL 33433

Carroll E Mahaney
Babcock & Wilcox
PO Box 1260
Lynchburg, Virginia 24505

James E Brunner, Esq
Consumers Power Company
212 West Michigan Avenue
Jackson, MI 49201

Mr D F Judd
Babcock & Wilcox
PO Box 1260
Lynchburg, VA 24505

Steve Gadler, Esq
2120 Carter Avenue
St Paul, MN 55108

Atomic Safety & Licensing
Appeal Panel
U S Nuclear Regulatory Comm
Washington, D C 20555

Mr C R Stephens
Chief, Documenting & Services
U S Nuclear Regulatory Comm
Office of the Secretary
Washington, D C 20555

Ms Mary Sinclair
5711 Summerset Street
Midland, MI 48640

William D Paton, Esq
Counsel for the NRC Staff
U S Nuclear Regulatory Comm
Washington, D C 20555

Atomic Safety & Licensing
Board Panel
U S Nuclear Regulatory Comm
Washington, D C 20555

Barbara Stamiris
5795 North River Road
Rt 3
Freeland, MI 48623

Jerry Harbour
Atomic Safety & Licensing
Board Panel
U S Nuclear Regulatory Comm
Washington, D C 20555

Lee L Bishop
Harmon & Weiss
1725 "I" Street, NW #506
Washington, DC 20006

M I Miller, Esq
Isham, Lincoln & Beale
Three National Plaza
52nd Floor
Chicago, IL 60603

John DeMeester, Esq
Dow Chemical Bldg
Michigan Division
Midland, MI 48640



STONE & WEBSTER MICHIGAN, INC.

P.O. Box 2325, BOSTON, MASSACHUSETTS 02107

November 9, 1982

Mr. John R. Schaub
Project Manager
Consumers Power Company
1945 W. Parnall Road
Jackson, Michigan 49201

Dear Mr. Schaub:

Per your request to Mr. Carl F. Sundstrom I am enclosing a list and description of jobs that Stone & Webster Michigan Inc. has undertaken for Consumers Power Company (CPCo). I am also providing the results of my investigation of our holdings in CPCo securities.

If we can be of further assistance, please call Mr. Carl F. Sundstrom at (617) 589-2780.

Very truly yours,

A handwritten signature in dark ink, appearing to read "P. A. Wild".

P. A. Wild
Vice President

<u>Start Date</u>	<u>End Date</u>	<u>Brief Description</u>	<u>Key Person</u>
3/78	12/81	Review Midland Plant list of equipment and recommend spare parts.	RDewitt RMontross GSleigh
6/78	6/80	Prepare an outage critique report on the Palisades Station second outage and provide planning support for the September, 1979 refueling outage.	KSpencer
11/78	6/80	Procure a mobile security access module to be used for outage work forces at Palisades.	KSpencer
3/82	7/82	Evaluate and make recommendation for training and implementation of the Midland Site Emergency Plan. *	RDoane SHowell WBeckman
9/82	--	Perform an independent assessment of construction activities related to the auxiliary building and feedwater isolation valve pit remedial work at the Midland Site.	JSchaub JMooney JCook
10/82	--	Provide emergency planning consulting services for the Big Rock Site.	RSindermann WMiller
10/82	--	Perform vibration analysis on the boiler feed pump at the J. H. Campbell Unit 3 and recommend and implement corrective actions.	JKeller TMehl JFord
10/82	--	Provide services and materials to coordinate the 1983/84 Palisades refueling outage.	JSnneider TELwood

* Note - S&W did the review but NUTECK who was already working in Michigan for Detroit Edison at the Fermi Station is doing the detailed planning.

HOLDINGS OF CPCO SECURITIES

Stone & Webster, Inc., the parent company of Stone & Webster Engineering Corporation and its subsidiaries (including SWEC) have no holdings of CPCo securities. The Employee Savings Plan of Stone & Webster, Incorporated and participating subsidiaries is administered by the Chase Manhattan Bank, N.A. as trustee. Funds may be invested in the Employee Benefit Investment Funds, Equity Fund of the Chase Manhattan Bank which is a commingled fund. Stone & Webster exercises no direct control over the investment of such funds.

The Chemical Bank of New York is trustee for the Employee Retirement Plan of Stone & Webster, Inc. and for participating subsidiaries. There are no CPCo securities held in the plan.