



STONE & WEBSTER MICHIGAN, INC.

P.O. Box 2325, BOSTON, MASSACHUSETTS 02107

United States Nuclear Regulatory Commission
Midland Site Resident Office
Route 7.
Midland MI. 48640

Attention : Mr. R. Cook

DOCKET NO. 50-339/330
MIDLAND PLANT UNITS 1 & 2
INDEPENDENT ASSESSMENT OF UNDERPINNING
REPORT NO. 67

January 5, 1984

J. O. No. 14358

PRINCIPAL STAFF		
RA	<i>the</i>	CEEP
D/RA		CE
A/RA		DRMS
RC		DR TA
PAO		SCS
SGA		HL
ENF		File <i>La</i>

31 day

A copy of the Independent Assessment of Underpinning Weekly Report No. 67 for the period of December 25, 1983 through December 31, 1983 is enclosed with this letter. Included as attachments are the minutes of the daily meetings held during the week between members of the Assessment Team and Site Engineering, Construction, and Quality Assurance personnel.

If you have any questions with respect to this report please contact me at (617) 589-2067.

A Stanley Luck

A. Stanley Lucks
Project Manager

Enclosures
ASL/pd

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J.O. NO. 14358
Midland Plant
Units 1 & 2
Independent Assessment of Underpinning

Weekly Report No. 67

December 25, 1983 through December 31, 1983

Personnel on Site

Stone & Webster Michigan, Inc.

W. Kilker	12/27 - 12/30
J. Springer	12/28 - 12/30
D. Benvie	12/27 - 12/30
R. Lykens	12/28 - 12/30

Meetings Attended

<u>Date</u>	<u>Represented</u>	<u>Purpose</u>
12/28 - 12/30	Stone & Webster Bechtel Consumers Power	Daily Assessment Team Meeting

Underpinning and Remedial Soils Activities - Construction

The Stop Work Order issued October 21, 1983 continued in effect throughout the week. Rejacking and crack mapping activities were performed, as required, by the project procedures.

Assessment Team Observations

The Phase III resolution of the Stop Work Order has been completed by MPQAD for the Civil documents. The Stone & Webster CIO Team has begun an audit of the civil documents at the five Document Control stations associated with the Soils Remedial activities.

The Assessment Team performed an evaluation of the drawing review process as it relates to the use of electrical and mechanical drawings as location references for excavation and drill permits. The purpose of this evaluation was to verify that the attachments to the referenced electrical and mechanical drawings, required for processing drill and excavation permits to support underpinning activities over the next 30 days, have completed the FCR/FCN review cycle. The Assessment Team believes that the drawing review process is adequate for issuance of excavation and drill permits.

J. O. No. 14358
 Midland Plant
 Units 1 & 2
 Independent Assessment of Underpinning

Work Activity Packages

The following Work Activity Packages overviews are in the open response stage or have been completed during the past week.

<u>WAP No.</u>	<u>Title</u>	<u>Status</u>
71	SWPS-Thru Anchor Bolt Holes	Open

Nonconformance Identification Reports

The following Nonconformance Identification Reports (NIRs) remain open or have been closed during the past week.

<u>NIR No.</u>	<u>Description</u>	<u>Date</u> (Opened)(Closed)
20	Concrete Admixture Dispenser Calibration	12/1/83

Open Items

Items discussed during meetings are categorized as follows:

OPEN ITEM - An item for which an action is required. The item will remain open until the required action has been taken. Tracking is required.

CLOSED ITEM - An item, usually brought forward by the Assessment Team, that is discussed and adequately responded to. No tracking is required.

INFORMATION ITEM - An item, brought forward to provide general background information regarding work, such as work status or an upcoming design change. No tracking is required.

OPINION ITEM - An opinion or suggestion, given by the Assessment Team, expressing an alternate construction or quality assurance technique. The opinion or suggestion is given as a possible alternate that may facilitate an operation. No response or implementation is required as a result of an Opinion Item.

CLOSES ITEM XX-XX - This notation identifies an action that closes a previously identified open item. Tracking of the open item stops.

The following is a listing of all Open items from the Daily Meeting Notes with Bechtel, the Weekly Meeting with MPQAD or the text of Weekly Reports. Carry-over items from past weeks which have been Closed this week are also listed.

<u>Item No.</u>	<u>Description</u>	<u>Closure</u>
WR 54, Pg. 3	Weld Tech Sheets	Open
57-17	Wall Ties	Open

J. O. No. 14358
 Midland Plant
 Units 1 & 2
 Independent Assessment of Underpinning

<u>Item No.</u>	<u>Description</u>	<u>Closure</u>
WR 58, Pg. 2	Lack of Drawing Reference	Open
58-3	Tubular Steel Lagging	Open
64-7	QAP Review Program	Open
64-10	Trend Analysis	Open
WR 64, Pg. 1	U.S. Testing Corrective Action	Open
65-19	Review of Phase III SWO Resolution	Open
66-3Q	Review of Phase III SWO Resolution	Open
66-5Q	Request for IR Distribution	Open
66-7	Check of Crack Mapped Areas	67-7
67-15	Reference Drawing List	Open

W. E. Kilker
 Project Engineer

Alb. L. S.
 Project Manager

Notes of Daily Meeting
Independent Assessment of Underpinning
Midland Plant Units 1 & 2
Consumers Power Company

Held at Midland Site
Midland, Michigan
December 26, 1983

No meeting was held this day (Site Holiday).

Notes of Daily Meeting
Independent Assessment of Underpinning
Midland Plant Units 1 & 2
Consumers Power Company

Held at Midland Site
Midland, Michigan
December 27, 1983

No meeting was held this day.

Notes of Daily Meeting
Independent Assessment of Underpinning
Midland Plant Units 1 & 2
Consumers Power Company

Held at Midland Site
Midland, Michigan
December 28, 1983

Present for:

<u>Consumers Power</u>	<u>Bechtel</u>	<u>MPQAD</u>	<u>Stone & Webster</u>	<u>Parsons</u>
G. Murray	J. Fisher	J. McMaster	W. Kilker	None
J. Schaub	J. Gaydos	R. Savo	D. Benvie	
	E. Cvikl		R. Lykens	
			J. Springer	

PURPOSE

This meeting is held each day to discuss items regarding the Independent Soils Assessment at the Midland Plant Units 1 & 2.

DISCUSSION

Status Items

Item 67-1 - Stop Work Order Update.

J. Fisher stated that MPQAD has completed the audit of design drawings at the five document control stations associated with the Soils Remedial work. No problems were identified. However, the MPQAD audit of vendor documents at the same stations revealed minor documentation problems. Corrective action is being taken and a re-audit will be required. Once the audit findings are satisfactory, the Stone & Webster Independent Overview can be performed.

J. Fisher also stated the electrical and mechanical drawings used by FSO for reference only have been isolated and are being reviewed for outstanding FCRs/FCNs.

The specification on Anchor Installations has not been resolved with respect to FCR/FCN impact. Until this issue is resolved, no Hilti bolt work can proceed even if the SWO is lifted.

J. Schaub stated CPGCo is awaiting a letter from the NRC stating the crack monitoring issues raised by the Assessment Team have been adequately addressed.
(INFORMATION ITEM)

Item 67-2 - Rejacking of Existing Piers

J. Fisher reported piers KC 2, KC 11 and the W 8 grillages have been rejaacked and locked off within the past several days. Pier W9 is still on active jacks. (INFORMATION ITEM)

Notes of Daily Meeting
Independent Assessment of Underpinning
Midland Plant Units 1 & 2
Consumers Power Company

Held at Midland Site
Midland, Michigan
December 28, 1983

Item 67-3 - U. S. Testing Action Items.

J. Gaydos provided a list describing action items that Bechtel and U.S. Testing have agreed to accomplish by January 1. (Item from WP64, Pg. 1-remains open) (INFORMATION ITEM)

New Items

Item 67-4 - Issuing FCRs/FCNs During SWO Period.

D. Benvie inquired what the restrictions are on issuing new change documents during this time period prior to resolution of the SWO. E. Cvikl stated new FCRs can be signed-off now that the Project Procedures controlling these documents have been properly revised and approved. Also, Document Control is processing and distributing a few select FCRs/FCNs, such as on crack monitoring and rejackings. (CLOSED ITEM)

Item 67-5 - Grillage Rejacking Criteria Modification.

J. Fisher said the pier deflection criteria for triggering rejackings of the E/W 8 grillages has been deleted in favor of a differential movement limitation between the EPA wing and the Control Tower. This modification resulted from discussions over the past two (2) weeks with the NRC. Copies of the change documents describing the modifications were provided at the meeting. (INFORMATION ITEM)

Item 67-6 - U. S. Testing QA Manual Distribution.

J. Fisher reported that Document Control has temporarily withdrawn the U.S. Testing QA manual from circulation while a distribution problem is resolved. While this action has put a hold on work at U.S. Testing, the problem is not one of an internal U.S. Testing nature. J. Fisher will update on the resolution of this item. (OPEN ITEM)

Response Item

Item 67-7 - Cracked Mapped Areas.

W. Kilker and J. Springer reported the Assessment Team has reviewed the project document modifications that define the level of cracks requiring monitoring. No PQCI revisions were required. It is the Team's opinion that the concern raised in Item 65-11 has been adequately addressed.
(CLOSES ITEM 66-7)

Notes of Daily Meeting
Independent Assessment of Underpinning
Midland Plant Units 1 & 2
Consumers Power Company

Held at Midland Site
Midland, Michigan
December 29, 1983

Present for:

<u>Consumers Power</u>	<u>Bechtel</u>	<u>MPQAD</u>	<u>Stone & Webster</u>	<u>Parsons</u>
G. Murray	J. Fisher	J. McMaster	W. Kilker	None
J. Schaub	J. Gaydos	R. Sevo	D. Benvie	
	E. Cvikl		J. Springer	

PURPOSE

This meeting is held each day to discuss items regarding the Independent Soils Assessment at the Midland Plant Units 1 & 2.

DISCUSSION

Status Items

Item 67-8 - Stop Work Order Update.

J. Fisher stated that MPQAD has verified that the actions proposed to correct vendor print documentation have been completed. CPCo should issue a letter today to the Stone & Webster CIO group advising that the five (5) Soils Document Control stations are ready for an audit.

J. Fisher summarized the conclusions of a meeting held earlier today on the use of the electrical and mechanical reference drawings by FSO in the underpinning work. FSO has isolated and reviewed these drawings for impact on the issuance of Concrete Drill permits and Excavation permits. The list will be forwarded to MPQAD soils for verification.

The specification on Anchor Installations has been cleared allowing Hilti-bolt installations to proceed when the Stop Work Order is lifted.

J. Schaub said CPCo will contact the NRC today concerning the letter approving CPCo resolution of crack monitoring issues. (INFORMATION ITEM)

New Items

Item 67-9 - SWPS Work Activities.

J. Fisher reported that when the SWO is lifted the upper ten (10) feet of fill soils along the north side of the structure will be stabilized by grouting prior to advancing the excavation for underpinning. (INFORMATION ITEM)

Notes of Daily Meeting
Independent Assessment of Underpinning
Midland Plant Units 1 & 2
Consumers Power Company

Held at Midland Site
Midland, Michigan
December 29, 1983

Item 67-10 - Review of Weekly Reports 65 and 66.

W. Kilker reported that the Assessment Team has no items from these reports that require action other than those already identified on the Open Item List.
(CLOSED ITEM)

Item 67-11 - East EPA Crack Monitoring.

E. Cvikl reported that WJE is in the process of performing crack monitoring on the east EPA walls and floors. In the process, two (2) 10-mil (alert level) cracks have been identified and reported to the RSE. E. Cvikl will update.
(OPEN ITEM)

Response Item.

Item 67-12 - U.S. Testing QA Manual Distribution.

G. Murray reported that Document Control has verified that the QA Manuals have been updated and are now in compliance. Reissuance of the manuals should be completed by December 30, 1983. (CLOSES ITEM 67-6) (OPEN ITEM)

Notes of Daily Meeting
Independent Assessment of Underpinning
Midland Plant Units 1 & 2
Consumers Power Company

Held at Midland Site
Midland, Michigan
December 30, 1983

Present for:

<u>Consumers Power</u>	<u>Bechtel</u>	<u>MPQAD</u>	<u>Stone & Webster</u>	<u>Parsons</u>
G. Murray	J. Gaydos	J. McMaster	W. Kilker	None
	E. Cvikl	R. Sevo	D. Benvie	
	D. Himmelberger		J. Springer	
			R. Lykens	

PURPOSE

This meeting is held each day to discuss items regarding the Independent Soils Assessment at the Midland Plant Units 1 & 2.

DISCUSSION

Status Items

Item 67-13 - Stop Work Order Update.

D. Himmelberger stated that the Stone & Webster audit of the five (5) Soils Document Control stations will commence on December 31, 1983.

G. Murray reported CP Co received the NRC letter approving the measures taken to address crack monitoring concerns. (INFORMATION ITEM)

Item 67-14 - Rejacking of Piers.

J. Gaydos reported that Pier W9 was locked off on December 29. No piers remain on active jacks. (INFORMATION ITEM)

New Item

Item 67-15 - Reference Drawing List For Drill And Excavation Permits.

R. Sevo reported that MPQAD has verified the Reference Drawing List supplied by FSO for drill and excavation permits to be implemented over the next 30 days.

W. Kilker stated that the Assessment Team will verify that the attachments to the referenced drawings have completed the FCR/FCN review cycle. W. Kilker inquired if the proposed grouting operation north of the SWPS would require a permit. J. Gaydos will verify. (OPEN ITEM)

Response Items

Item 67-16 - East EPA Crack Monitoring

E. Cvikl reported the crack monitoring of the East EPA has been completed. The alert level cracks have been reviewed by the program consultant, CTL. The consultant reported that the cracks were previously identified in their report of January, 1982, to CCo. Therefore, the cracks were not the result of recent construction activities. The Assessment Team has observed the cracks and reviewed the CTL report and is satisfied with the resolution. (CLOSES ITEM 67-11)

Notes of Daily Meeting
Independent Assessment of Underpinning
Midland Plant Units 1 & 2
Consumers Power Company

Held at Midland Site
Midland, Michigan
December 30, 1983

Item 67-17 - U.S. Testing Manual Distribution.

J. McMaster reported all U.S. Testing manuals have been re-distributed and the self-imposed hold on work by U.S. Testing has been lifted. CPCo has requested that in the future, Document Control should not withdraw all manuals when a deficiency is found in the filing of one manual. The Assessment Team is satisfied with the resolution of this item. (CLOSES ITEM 67-12)