



# STONE & WEBSTER MICHIGAN, INC.

P.O. Box 2325. BOSTON. MASSACHUSETTS 02107

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

November 21, 1983

J. O. No. 14358  
 Ref. MPF 61

Attention : Mr. R. Cook

DOCKET NO. 50 -339/330  
 MIDLAND PLANT UNITS 1 & 2  
 INDEPENDENT ASSESSMENT OF UNDERPINNING  
 REPORT NO. 61

A copy of the Independent Assessment of Underpinning Weekly Report No.61 for the period of November 13, 1983 through November 19, 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.

*W. Kelser for A.S. Lucks*  
 A. Stanley Lucks  
 Project Manager

Enclosures  
 ASL/pd

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

Weekly Report No. 61

November 13, 1983 through November 19, 1983

Personnel on Site

Stone & Webster Michigan, Inc.

W. Kilker	11/18 - 11/19
B. Holsinger	11/13 - 11/15
P. Majeski	11/13 - 11/15
J. Springer	11/15 - 11/19
L. Rouen	11/15 - 11/19

Meetings Attended

<u>Date</u>	<u>Represented</u>	<u>Purpose</u>
11/14 - 11/18	Stone & Webster Bechtel Consumers Power	Daily Assessment Team Meeting
11/18	Bechtel Consumers Power Stone & Webster	Discuss S & W Review of Phase I Resolution of SWO

Underpinning and Remedial Soils Activities - Construction

The Stop Work Order issued October 21, 1983, continued in effect throughout the week. Strain gage reading variations at the E/W8 Z-jack locations required reworking of the grillages.

Assessment Team Observations

The Team reviewed a random sampling of FCR's that had been determined to need no resolution by a preliminary review. NIR #17 was issued after the Assessment Team determined that approximately one-third of the sample did not meet the procedural criteria for identifying FCR's that require future resolution.

The Assessment Team continued the review of the crack monitoring activities. As a result, NIR #18 was issued on the failure to correctly mark cracks on one of the auxiliary building walls.

Work Activity Packages

Work Activity Package 57 questions and comments previously submitted to FSO for response, have not yet been resolved. WAP's 59 and 71 remain open, awaiting final approval of an FCR and response to one action item, respectively.

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

Nonconformance Identification Reports

<u>NIR No.</u>	<u>Description</u>	<u>Date</u>	
		(Opened)	(Closed)
14	Nut Procurement	8/11/83	
16	Crack Monitoring Procedure	11/4/83	
17	FCR/FCN Review Program	11/15/83	
18	Crack Monitoring Deficiency	11/17/83	

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.

CLOSED 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 and the Weekly Meeting with MPQAD. 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>
56-12	Lean Flyash Placement	61-17
57-17	Wall Ties	Open
57-6Q	MPQAD Supervisory Personnel	Open
58-3	Tubular Steel Lagging	Open
58-13	Slurry for Removal of 36 In. Dia Casing	Open

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 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
59-5	Additional SWPS Cracks	Open
59-18	WJE Procedure	NIR # 16
59-20	Processing Mapping Data	Open
WR 30, pg. 3	Project Engineering Evaluation of Welding	Open
Daily Meeting Notes of July 6, 1983, Item 5	E/W Bulkhead Lagging Wedging	61-18
WR 51, pg. 2	FCR Final Approval Process	Open
WR 54, pg. 3	Weld Tech Sheets	Open
55-32	Rotation of Concrete Truck Mixers	61-11
60-4	WJE Procedure	Open
60-14	FSO Tracking List	61-4
WR 59, pg. 1	Crack Mapping Data Sheets	Open
WR 60, pg. 2	Inspection of Non-Structural Welds	Open
WR 39, pg. 3	Slurry Test Frequency	61-14
61-16	Potential Open Item Review	Open

W E Keller  
 Project Engineer

W Keller for AS Ginder  
 Project Manager

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

Held at Midland Site  
Midland, Michigan  
November 14, 1983

Present For:

<u>Consumers Power</u>	<u>Bechtel</u>	<u>MPQAD</u>	<u>Stone &amp; Webster</u>
None	J. Fisher E. Cvikl J. Gaydos	R. Sevo	P. Majeski  <u>Parsons</u> None

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

Items 61-1 - Rejacking of E/W8 Grillages.

Rejacking of the E/W8 grillages is required because the strain readings in the steel grillage support columns have exceeded the alert level of 20 percent. E 8 will be jacked first, followed by W 8 later in the week. ( INFORMATION ITEM )

New Items

Item 61-2 - Crack Mapping Data Sheets.

Weekly Report 59 was reviewed to determine if any issues should be discussed. Assessment Team concerns regarding crack mapping data sheets were identified as an open item. This item was previously identified by the Assessment Team and entered into its tracking system. ( INFORMATION ITEM )

Response Items

Item 61-3 - E/W8 Bulkhead Lagging Wedging.

E. Cvikl advised that a DCN had been written to respond to the Team's concern regarding the wedging of lagging. ( Item 5, DMN 7-6-83 Remains Open ) ( INFORMATION ITEM )

Item 61-4 - FSO Tracking List.

P. Majeski indicated that he reviewed both the FSO and Assessment Team Tracking Lists and provided FSO with a list of the differences.

( CLOSES ITEM 60-14 )

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

Held at Midland Site  
Midland, Michigan  
November 15, 1983

Present For:

<u>Consumers Power</u>	<u>Bechtel</u>	<u>MPQAD</u>	<u>Stone &amp; Webster</u>
R. Weiland	J. Fisher E. Cvikl J. Gaydos	W. Lytle	P. Majeski B. Holsinger
			<u>Parsons</u> None

PURPOSE

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

DISCUSSION

Status Item

Item 61-5 - Evaluation of Change and Nonconformance Document Report.

J. Fisher indicated that FSO will complete their review of the report by November 17. ( INFORMATION ITEM )

New Items

Item 61-6 - NIR # 17.

The Assessment Team indicated that NIR number 17 was issued against the FCR/FCN Review and Resolution Program for Stop Work Order 33-41. ( INFORMATION ITEM )

Response Item

Item 61-7 - Lean Flyash Placement Procedure.

J. Gaydos indicated that the appropriate procedure concerning lean flyash grout placement has been revised and signed off. ( Item 56-12 Remains Open ) ( INFORMATION ITEM )

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

Held at Midland Site  
Midland, Michigan  
November 16, 1983

Present For:

<u>Consumers Power</u>	<u>Bechtel</u>	<u>MPQAD</u>	<u>Stone &amp; Webster</u>
J. Schaub	J. Fisher	R. Sevo	L. Rouen
R. Wieland	E. Cvikl		J. Springer
	J. Gaydos		
			<u>Parsons</u>
			None

#### 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 61-8 - Stop Work Order Status.

J. Fisher reported that the FSO Stop Work Order is expected to be lifted on November 28, 1983. ( INFORMATION ITEM )

Item 61-9 - Rejacking of E/W8 Grillage.

Rejacking and lock off for E/W8 grillages were both completed on 11/14/83. J. Fisher indicated that this was possible because the procedure does not require an acceptance criteria for settlement in this case. ( Refer to Item 61-1 ) ( INFORMATION ITEM )

##### New Items

There were no new items discussed.

##### Response Items

Item 61-10 - NIR # 17.

R. Sevo indicated that MPQAD is working on the response to NIR # 17. ( INFORMATION ITEM )

Item 61-11 - Concrete Trucks.

J. Gaydos furnished the Assessment Team with a copy of Inter-office Memorandum, FSO-418, regarding rotation of concrete truck drums. The Assessment Team considers the instructions to be appropriate. (CLOSES ITEM 55-32 )

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

Held at Midland Site  
Midland, Michigan  
November 17, 1983

Present For:

<u>Consumers Power</u>	<u>Bechtel</u>	<u>MPQAD</u>	<u>Stone &amp; Webster</u>
J. Schaub	J. Fisher	R. Sevo	J. Springer
G. Murray	E. Cvikl		L. Rouen
	J. Gaydos		
			<u>Parsons</u>
			None

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 61-12 - Welding Requirements for Wall Ties.

J. Fisher indicated that Bechtel was considering removing the wall ties referenced in note 6, Drawing C-2025-12. (Item 57-17 Remains Open)( INFORMATION ITEM )

Item 61-13 - Welding Technique Sheets.

J. Fisher indicated that both Mergentime and Spencer, White and Prentis have submitted their revised welding procedures incorporating the welding technique sheets to Bechtel for review. ( Item WR 54, pg. 3 Remains Open)(INFORMATION ITEM )

New Items

There were no new items discussed.

Response Items

Item 61-14 - Flexibility in Taking Concrete Slump Test.

J. Gaydos responded to the Assessment Teams concerns identified in Weekly Report 39, page 3. J. Gaydos indicated that as a minimum, slump tests must be taken when the first truck arrives and every 50 cubic yards placed thereafter. If it appears that the concrete is approaching the rejection limit the Bechtel Field Engineer or the QC Engineer has the option to request a slump test to verify that it is within tolerance. J. Gaydos indicated that these requirements were in effect during concrete placement for pier KC11 and were satisfactorily applied. The Assessment Team considers this response to be appropriate. ( CLOSES ITEM WR 39, pg: 3 )



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

Held at Midland Site  
Midland, Michigan  
November 17, 1983

Item 61-15 - Control of Bentonite Slurry Consistency.

J. Fisher indicated that the consistency of the bentonite slurry is not specified in their procedure and that Bechtel considers this acceptable because the activity is controlled by the RSG Field Engineer with concurrence of the RGE. The Assessment Team will evaluate the adequacy of this response.  
( Item 58-13 Remains Open ) ( INFORMATION ITEM )

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

Held at Midland Site  
Midland, Michigan  
November 18, 1983

Present For:

<u>Consumers Power</u>	<u>Bechtel</u>	<u>MPQAD</u>	<u>Stone &amp; Webster</u>
G. Murray	J. Fisher E. Cvikl J. Gaydos	R. Sevo	J. Springer L. Rouen
			<u>Parsons</u> None

#### 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

There were no new status items discussed.

##### New Items

Item 61-16 - Review of Potential Open Items.

The Assessment Team presented a list of potential open items from weekly reports 1-29 to FSO for resolution. FSO will respond. ( OPEN ITEM )

##### Response Items

Item 61-17 - Lean Flyash Placement Procedure.

J. Springer indicated that a review of the signed off procedure had been performed and that the Assessment Team considers the changes that eliminated referring to the concrete placement procedure to be appropriate. (Refer to Item 61-7 ) ( CLOSES ITEM 56-12 )

Item 61-18 - Lagging Wedging.

J. Springer stated that the changes to drawings C-1427-1 and C-1434-1 were reviewed and satisfy the Team's original concern. (CLOSES ITEM 5, DMN 7-6-83 )

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

Held at Midland Site  
Midland, Michigan  
November 15, 1983

No meeting was held this week.