STONE & WEBSTER MICHIGAN, INC.

P.O. Box 2325, Boston, Massachusetts 02107

PRINCIPAL STAFF
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D/RM
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ENF
File

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

November 9, 1983

J. O. No. 14358
Ref. MPF 59

Attention: Mr. R. Cook

DOCKET NO. 50339/330
MIDLAND PLANT UNITS 1 & 2
INDEPENDENT ASSESSMENT OF UNDERPINNING
REPORT NO. 59

A copy of the Independent Assessment of Underpinning Weekly Report No.59 for the period of October 30, 1983 through November 5, 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 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. 59

October 30, 1983 through November 5, 1983

Personnel on Site

Stone & Webster Michigan, Inc.

W. Kilker	11/2 - 11/5
B. Holsinger	10/30 - 11/1
P. Majeski	10/30 - 11/1
J. Springer	11/1 - 11/5
E. Doherty	10/31 - 11/1

Meetings Attended

Date	Represented	Purpose
10/31-11/4	Stone & Webster Bechtel Consumers Power	Daily Assessment Team Meeting
11/2	MPQAD Stone & Webster	Assessment Team Meeting with MPQAD
10/31-11/1	MPQAD Stone & Webster	Review Change Document Stop Work Order
11/4	Bechtel Stone & Webster	Resolution of Potential Action Items from Weekly Reports 30-57

Underpinning and Remedial Soils Activities - Construction Observations

The Stop Work Order issued on October 21, 1983, continued in effect throughout the week. The only activities were routine maintenance and the rejacking of Piers E/W11 and the E8 Pier and grillages.

Assessment Team Observations

The Assessment Team initiated a review of the crack mapping monitoring procedures and the crack mapping data for the Auxiliary Building. Several concerns have been raised including occasional incomplete data sheets, unclear data sheet entries, and performing activities not explicity released from a "Hold" status. The latter item resulted in the Assessment Team issuing NIR No. 16. Overall, the Team feels the crack monitoring operation needs more attention given to fully comply with the details of the project procedures.

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CPCo has initiated, through FSO, a tracking system for Assessment Team open discussion items. The Team is familiar with the system and feels it will adequately track the items.

E.P. Doherty of the Stone & Webster Engineering Assurance group performed an evaluation of the recent MPQAD issued Stop Work Order. Discussions were held with the CPCo auditor who identified the change document issue problems and with MPQAD supervisory personnel. Mr. Doherty also reviewed the design change documents forms and procedures and the draft corrective action plan. Based on the results of the evaluation, the Assessment Team believes that the audit finding of a potential disconnect between the approved design and construction was sufficient to cause MPQAD to issue the SWO. In addition, the course of action being taken by CPCo to resolve these conditions and prevent recurrence is considered to be thorough and appropriate. However, CPCo recognizes that new problems may be identified as implementation of the plan progresses and that changes may be required to respond to any new concerns encountered.

Work Activity Packages

The comments and questions on WAP 68 and 70 , which were previously submitted, were satisfactorily resolved. Therefore, these packages are considered complete. Comments and questions regarding WAP 71 were submitted to FSO. WAP 59 remains open awaiting final approval of a FCR. WAP 66 and 72 were primarily electrical installations and were not reviewed by the Assessment Team.

Nonconformance Identification Reports

NIR No.	Description	Date (Opened)	(Closed)
14	Nut Procurement	8/11/83	
16	Crack Monitoring Procedure	11/4/83	

Open Items

As part of the Assessment Team actions resulting from the discussion of open item tracking at the November public meeting, the Assessment Team has reviewed Weekly Reports 30-57 for potential action items that were documented as closed including those closed on verbal committments. From this review the Team concluded that 5 items could be considered as requiring further action to document closure. The items were identified in a meeting with FSO and have been added to the Open Item list of this weekly report.

In addition, the Assessment Team identified several concerns that appeared in the text of the reports such as, timely resolution of NCRs, work progress, and implementation of internal report findings. The Team consider these to be opinion items and as such do not require specific responses. The Assessment Team will observe future performance in these areas.

Items discussed during meetings are categorized as follows:

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

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 the 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.

Item No.	Description	Closure
45-8Q	Discussion on Mechanism of Identifying Quality Concerns	Open
48-4Q	Structural Backfill PQCI Adequacy	59-22
52-4Q	MPQAD Independent Welding Inspection Review	59-6Q
55-2	Plasticized Concrete Mix Tests	59-13
56-12	Lean Flyash Placement	Open
57-17	Wall Ties	Open
57-6Q	MPQAD Supervisory Personnel	Open
57-7Q	Welding Inspection	Open
58-3	Tubular Steel Lagging	Open
58-4	FSO Evaluation of FCR's/ FCN's Status	59-1

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Units 1 & 2
Independent Assessment of Underpinning

Item No.	Description	Closure
58-11	Winterization of SWPS Dewatering System	59-10
58-12	Number of FCR's on Drawings	59-2
58-13	Slurry for Removal of 36 In. Dia Casing	Open
WR 58,pg.2	Lack of Drawing Reference	Open
59-5	Additional SWPS Cracks	Open
59-18	WJE Procedure	Open
59-19	Crack Mapping Data	Open
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/W8 Bulkhead Lagging Wedging	Open
WR 51,pg. 2	FCR Final Approval Process	Open
WR 54,pg.3	Weld Tech Sheets	Open
55-32	Rotation of Concrete Truck Mixers	Open

BJ Mijlin for WE Kilker
Project Engineer

Project Manager

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

Held at Midland Site Location
Midland, Michigan
October 31,1983

Present For:

Consumers Power	Bechtel	MPQAD	Stone & Webster
G. Murray	J. Fisher	R. Sevo	P. Majeski
	E. Cvikl		
	J. Gaydos		Parsons
			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

No significant status items were discussed.

New Items

No new items were discussed.

Response Items

Item 59-1 - FSO Evaluation of FCR's/FCN's Status.

P. Majeski indicated that this item has been carried as open within the Assessment Team's tracking system. Since the SWO concerning the FCR's/FCN's is an ongoing evaluation, there is no need to carry this as an open item. It will be carried within the normal statusing provided by FSO. (CLOSES ITEM 58-4)

Item 59-2 - Number of FCR's on Drawings.

J. Fisher indicated that current procedures do not limit the number of Interim Approved FCR's which resulted in the large number of attached pages to the drawing reviewed by P. Parish. The number of attachments will be revised as part of the resolution of the Stop Work Order now in effect. Since the Assessment Team will be tracking the resolution of the SWO, this item is considered closed. (CLOSES ITEM 58-12)

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

Held at Midland Site Location
Midland, MI. 48640
November 1, 1983

Present For:

Consumers Power	Bechtel	MPQAD	Stone & Webster
G. Murray	J. Fisher	J. McMaster	P. Majeski
	E. Cvikl		J. Springer
	J. Gaydos		

Parsons

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

No status items.

New Items

Item 59-3 - Work Activity Packages.

P. Majeski indicated that the AssessmentTeam has completed its review of WAP 64. All comments and questions have been resolved and the package is complete. (INFORMATION ITEM)

Item 59-4 - Review of Weekly Report No. 57.

In the meeting,Weekly Report No. 57 was reviewed to identify any items which might require response. No new response items were identified. (INFORMATION ITEM)

Item 59-5 - Additional Cracks in SWPS.

E. Cvikl reported that two new 10 mil cracks were found in the roof and in a beam of the SWPS. A QAR was written because Wiss Janney Elstner (WJE) did not notify FSO within 4 hours as required per procedure. The cracks were first discovered on October 12 and were reported on an illegible data sheet on October 14. FSO returned the data sheet to WJE on October 23 and received a legible copy on October 29. Bechtel spotted the alert level on October 30 and wrote the QAR. The Assessment Team requested that FSO supply the disposition of the QAR when it is completed. (OPEN ITEM)

Item 59-6 - Stop Work Order Status.

J. Fisher indicated that the earliest estimated date of the lifting of the Stop Work Order is November 16. 1983. (INFORMATION ITEM)

Response Items

No response items.

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

Held at Midland Site Location
Midland, MI. 48640
November 2, 1983

Present For:

Consumers Power	Bechtel	MPQAD	Stone & Webster
G. Murray	J. Fisher	None	J. Springer
	E. Cvikl		
	J. Gaydos		Parsons
			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 59-7 - Stop Work Order Status.

J. Fisher indicated that the Stop Work Order on procurement could be lifted as early as the end of this week and that the Stop Work Order allowing the crafts to return to work could be lifted by November 14, 1983. (INFORMATION ITEM, See Item 59-6)

Item 59-8 - Potential Open Items.

J. Fisher advised that Bechtel would respond in writing by Nov. 4 regarding the concerns identified in the NRC public meeting and potential open items identified in Weekly Reports No. 30 thru 57 . (INFORMATION ITEM)

Item 59-9 - Cathodic Protection in Non-Q Filled Areas.

J. Springer asked why work was not proceeding with the cathodic protection in non-Q fill areas. J. Gaydos responded that the fill material, even though it is to be used in a non-Q area is Q material, and therefore, due to the Stop Work Order cannot be released. J. Fisher indicated that Moretrench American Corp. had been demobilized for at least 2-3 weeks pending resolution of the Stop Work Order. (CLOSED ITEM)

Response Item

Item 59-10 - Winterization of SWPS Dewatering System.

J. Fisher indicated that necessary steps were taken to insure proper winterization of the SWPS dewatering system. J. Fisher indicated that the existing header system did not require winterization since the constant movement of the water would prevent freezing . However, the standby pumps have been housed in heated enclosures. (CLOSES ITEM 58-11)

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

Held at Midland Site Location
Midland, MI. 48640
November 3, 1983

Present For:

Consumers Power	Bechtel	MPQAD	Stone & Webster
G. Murray	J. Fisher	R. Sevo	J. Springer
	E. Cvikl		W. Kilker
	J. Gaydos		

Parsons

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 59-11 - Work Status.

J. Fisher reported that piers E/W 11 were rejacked on Nov. 2 in order to insert new wedges. Pier E8 will be rejacked (X-location) today to satisfy a deflection criteria requirement. (INFORMATION ITEM)

New Item

Item 59-12 - MPQAD Action Items.

R. Sevo submitted to J. Fisher the list of open action items from the Weekly Assessment Team meetings with MPQAD. These items will be incorporated into the Bechtel tracking system. Refer to Item 58-15 for background information. (INFORMATION ITEM)

Response Items

Item 59-13 - Plasticized Concrete Tests.

In response to an earlier inquiry, J. Gaydos submitted to the Assessment Team the strength test results of the plasticized concrete mix design. (CLOSES ITEM 55-2)

Item 59-14 - Dewatering System Winterization.

J. Fisher submitted to the Assessment Team a letter from the SWPS dewatering subcontractor describing the winterization plans. This supplements the verbal response as reported in Item 59-10. (INFORMATION ITEM)

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

Held at Midland Site Location
Midland, Michigan
November 4, 1983

Present For:

Consumers Power	Bechtel	MPQAD	Stone & Webster
G. Murray	J. Fisher	R. Sevo	J. Springer
	E. Cvikl		W. Kilker
	J. Gaydos		

Parsons

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 59-15 - Review of Potential Action Items from Weekly Reports 30-57.

W. Kilker stated that the Assessment Team has discussed with FSO any items from the Daily Meeting Notes or Weekly Reports (Weeks 30-57) that could be interpreted as requiring further action. All of these discussed items were either closed or added to the Assessment Team's Weekly Report Open Item list. (INFORMATION ITEM)

Item 59-16 - Stop Work Order Status.

J. Fisher reported the revision to the SWO was issued that will allow processing of interim approved FCRs and the completion of the SWPS/CWPS water-tight seal. (INFORMATION ITEM)

Item 59-17 - NCRs on Pier W8.

E. Cvikl reported 2 NCRs have been written against the QC concrete curing sign-off for the Carlson meters at piers W8. (INFORMATION ITEM)

New Items

Item 59-18 - WJE Auxiliary Building Crack Monitoring Procedure.

J. Springer questioned why the part of the WJE requirements on crack monitoring after the E/W8 grillages were loaded is designated " Hold " in the procedure. E. Cvikl will respond.(OPEN ITEM)

Item 59-19 - Crack-Mapping Data.

J. Springer requested a copy of the most recent crack monitoring data on the SWPS and Auxiliary Building. E. Cvikl will provide. (OPEN ITEM)

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

Held at the Midland Site Location
Midland, Michigan
November 4, 1983

Item 59-20 - Processing of SWPS Crack Information.

W. Kilker asked why the recent exchange of SWPS crack monitoring data between WJE and Bechtel required more than two weeks. E. Cvikl replied that this time frame is not satisfactory and that measures will be taken in dispositioning the QAR written on this activity (refer to Item 59-5). (OPEN ITEM)

Item 59-21 - FSO Personnel Lay-offs due to Stop Work Order

J. Springer asked what the extent of FSO lay-offs has been due to the recent SWO. J. Fisher replied that to date only craft personnel and foremen have been laid-off. J.Fisher said FSO also realizes retraining or additional training may be required if the previously trained personnel do not return or the stoppage is lengthy. (INFORMATION ITEM)

Response Item

Item 59-22 - Structural Backfill PQCI

W. Kilker reported that MPQAD has furnished a copy of the revised PQCI to the Assessment Team. (CLOSES ITEM 48-4Q)

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

Held at Midland Site Location
Midland, Michigan
November 1, 1983

Present For:

Stone & Webster	MPQAD
B. Holsinger	J. Meisenheimer
P. Majeski	D. Horn
J. Springer	M. DeWitt
	B. Sevo

PURPOSE

This meeting is held to obtain and discuss information relative to Q.A. activities for soils underpinning work at the Midland Plant Units 1 & 2.

DISCUSSION

Status Item

Item 59-1Q - Status of NIR # 14.

The status is essentially unchanged . The verification of the scrapping of material must be made and a form changed. MPQAD will evaluate the impact of the Stop Work Order's restriction on accomplishing these actions. (INFORMATION ITEM)

Item 59-2Q - Status on Mechanism For Identifying Quality Concerns.

The procedure is due for sign-off today. (INFORMATION ITEM)

Item 59-3Q - Status on Comments of Backfill PQCI.

The Assessment Team received the response to the earlier comments. All concerns have been adequately addressed. Item 48-8Q will be closed when the PQCI is issued. (INFORMATION ITEM . Item 48-8Q Remains Open)

Item 59-4Q - Use of Supervisory Personnel.

MPQAD has not prepared a response to the Assessment Team question on the availability of Level III staff to provide guidance and resolve the issues. (INFORMATION ITEM . Item 57-6Q Remains Open)

Item 59-5Q - Pre-heat Welding Inspection.

Additional information is needed in order for MPQAD to provide a response. (INFORMATION ITEM . Items 57-7Q Remains Open)

New Items

There were no new items discussed.

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

Held at Midland Site Location
Midland, Michigan
November 1, 1983

Response Items

Item 59-6Q - MPQAD Welding Inspection Review.

The Assessment Team received the welding consultant's report on 10/31/83. (CLOSES ITEM 52-4Q)

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

November 15, 1983

J. O. No. 14358
Ref. MPF 60

Attention: Mr. R. Cook

DOCKET NO. 50 - 339/330
MIDLAND PLANT UNITS 1 & 2
INDEPENDENT ASSESSMENT OF UNDERPINNING
REPORT NO. 60

A copy of the Independent Assessment of Underpinning Weekly Report No. 60 for the period of November 6, 1983 through November 12, 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.

BJ Majewski for
A. Stanley Lucks
Project Manager

Enclosures
ASL/pd

NOV 18 1983

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

Weekly Report No. 60

November 6, 1983 through November 12, 1983

Personnel on Site

Stone & Webster Michigan, Inc.

W. Kilker	11/6
B. Holsinger	11/7 - 11/12
P. Majeski	11/9 - 11/12
J. Springer	11/6 - 11/8
A. Lucks	11/9 - 11/10
S. Rossier	11/9 - 11/10
L. Rouen	11/8 - 11/11

Parsons Brinckerhoff Michigan, Inc.

L. Silano	11/9 -11/10

Meetings Attended

Date	Represented	Purpose
11/7-11/9,11/11	Stone & Webster Bechtel Consumers Power	Daily Assessment Team Meeting
11/9	MPQAD Stone & Webster	Assessment Meeting Meeting with MPQAD
11/10	NRC Consumers Power Stone & Webster Parsons	Monthly Meeting with NRC

Underpinning and Remedial Soils Activities - Construction

The Stop Work Order issued on October 21, 1983, continued in effect througout the week. The only activities were routine maintenance and rejacking of the E/W8 grillages.

Assessment Team Observations -

The Assessment Team reviewed several Wiss Janney Elstner (WJE) procedures and the Bechtel instrumentation monitoring specification concerning crack mapping. It was noted during this review that the WJE procedures were not being revised to reflect revisions to the Bechtel specifications . This was brought to the attention of the Contractor.

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

The Assessment Team is evaluating the response to NIR # 14, Nut Procurement. In addition, the Team has initiated a review to determine the effectiveness of the MPQAD resolution of the Change Document Stop Work Order.

The Assessment Team has received a copy of the MPQAD procedure " Request for Information / Action " . This procedure was written in response to the Team's observation that there was a need for an improved mechanism for identifying quality concerns. This procedure adequately addresses the team's concerns.

A response was also received regarding the welding inspection of non-structural welds. The inspection procedure is used only on non-structural welds on temporary installations. The Team agrees with this approach . The Assessment Team recommends that steps be taken to insure that this inspection procedure is not used for permanent installations.

Work Activity Packages

Work Activity Package 57 was reviewed and questions and comments were submitted to FSO for response. WAP's 59 and 71 remains open, awaiting final approval of an FCR and response to one action item respectively.

Nonconformance Identification Reports

NIR No.	Description	Date (Opened) (Closed)
14	Nut Procurement	8/11/83
16	Crack Monitoring Procedure	11/4/83

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 the 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.

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

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.

Item No.	Description	Closure
45-8Q	Discussion on Mechanism of Identifying Quality Concerns	60-3Q
56-12	Lean Flyash Placement	Open
57-17	Wall Ties	Open
57-6Q	MPQAD Supervisory Personnel	Open
57-7Q	Welding Inspection	60-4Q
58-3	Tubular Steel Lagging	Open
58-13	Slurry for Removal of 36 In. Dia Casing	Open
WR 58, pg. 2	Lack of Drawing Reference	Open
59-5	Additional SWPS Cracks	Open
59-18	WJE Procedure	Open
59-19	Crack Mapping Data	60-5
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/W8 Bulkhead Lagging Wedging	Open
WR 51, pg. 2	FCR Final Approval Process	Open
WR 54, pg. 3	Weld Tech Sheets	Open
55-32	Rotation of Concrete Truck Mixers	Open

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

Item No.	Description	Closure
60-4	WJE Procedure	Open
60-14	FSO Tracking List	Open
WR59,pg. 1	Crack Mapping Data Sheets	Open
WR60,pg. 2	Inspection of Non-Structural Welds	Open

L. T. Rauch for W.E. KILKER
Project Engineer

B J Majeski for ASLucks
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 7, 1983

Present For:

Consumers Power	Bechtel	MPQAD	Stone & Webster
G. Murray	J. Fisher	R. Sevo	J. Springer
	E. Cvikl		
	J. Gaydos		Parsons
			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 60-1 - Rejacking of Pier E8.

J. Fisher reported that rejacking and lock off for pier E8 was completed on 11/5/83. However, due to building movement on 11/5/83 in excess of 10 mils, rejacking of E/W8 grillage will start on 11/7/83. (INFORMATION ITEM)

New Items

Item 60-2 - NIR Number 16.

J. Springer indicated that NIR number 16 was issued against WJE auxiliary building crack monitoring . (refer to Item 59-18) (INFORMATION ITEM)

Item 60-3 - Impact of Stop Work Order on Crack Mapping Activities.

J. Springer asked why the crack mapping activities were affected by the Stop Work Order. E. Cvikl will respond. (OPEN ITEM)

Item 60-4 - WJE Procedure.

J. Springer indicated that a review of the WJE crack mapping procedure revealed that these procedures were not being revised concurrently with the Bechtel instrumentation monitoring specification. J. Springer asked what system Bechtel uses to insure that WJE procedures are revised concurrently with Bechtel Specifications and if this was a problem with other WJE procedures.
G. Murray requested Bechtel to do a complete review of all WJE procedures and initiate corrective action. (OPEN ITEM)

Response Item

Item 60-5 - Crack Mapping Data for SWPS and Auxiliary Building.

In response to an earlier inquiry E. Cvikl provided the appropriate crack mapping data. (CLOSES ITEM 59-19)

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

Held at Midland Site
Midland. Michigan
November 8, 1983

Present For:

Consumers Power	Bechtel	MPQAD	Stone & Webster
G. Murray	J. Fisher	R. Sevo	J. Springer
	E. Cvikl		B. Holsinger
	J. Gaydos		

Parsons

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 60-6 - Rejacking of E/W8 Grillages.

J. Fisher reported that the rejacking of the E/W8 grillage is currently in progress and that a decision was made not to maintain the load at lift off but to reduce it to 125% of the specified load. He also added that this may result in small downward movement of the structure. (INFORMATION ITEM)

Response Item

Item 60-7 - WJE Procedure Review.

E. Cvikl reported that three (3) WJE procedures will require some changes as a result of the FSO review and that these procedures were all related to the crack mapping. (INFORMATION ITEM , ITEM 60-4 Remains Open)

Item 60-8 - MPQAD Response to NIR 16.

R. Sevo reported that MPQAD will be issuing a followup QAR in response to NIR # 16 and to the Assessment Team concerns regarding other WJE procedures. (INFORMATION ITEM , ITEM 60-4 Remains Open)

Item 60-9 - Impact of Stop Work Order on Crack Mapping Activities.

J. Fisher responded that the intention was to continue crack mapping during the Stop Work Order and that WJE was notified accordingly. (CLOSES ITEM 60-3)

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

Held at Midland Site
Midland, Michigan
November 9, 1983

Present For:

Consumers Power	Bechtel	MPQAD	Stone & Webster
G. Murray	J. Fisher	R. Sevo	P. Majeski
	E. Cvikl		L. Rouen
	J. Gaydos		

Parsons

None

PURPOSE

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

Status Item

Item 60-10 - Stop Work Order Status.

J. Fisher reported that currently the Stop Work Order is expected to be lifted in late November. (INFORMATION ITEM)

New Items

Item 60-11 - Potential Open Items.

J. Fisher provided copies of FSO's list of potential open items from weeks 30 thru 57 as identified by the Assessment Team. FSO's understanding of action status on open items and closure references for closed items are included on the list. (INFORMATION ITEM)

Item 60-12 - October Public Meeting.

J. Fisher provided information concerning the discussions held with the NRC Public Meeting . (INFORMATION ITEM)

Item 60-13 - US Testing.

J. Gaydos provided the latest status report on US Testing's response to the observations made during the Bechtel review of their operations. (INFORMATION ITEM)

Response Items

There were no response items discussed.

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

Held at Midland Site Location
Midland, Michigan
November 10, 1983

No meeting was held on this date.

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

Held at Midland Site
Midland, MI. 48640
November 11, 1983

Present For:

Consumers Power	Bechtel	MPQAD	Stone & Webster
G. Murray	J. Fisher	R. Sevo	P. Majeski
	E. Cvikl		L. Rouen
	J. Gaydos		Parsons
			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 significant status items discussed.

New Items

Item 60-14 - FSO Tracking List.

J. Fisher reported that the tracking list used by FSO currently contains all the items identified by the Assessment Team as open. All closed items which have been carried for the past few weeks for information purposes have been eliminated. P. Majeski indicated that he will verify that the list contains all of the Assessment Team's open items. (OPEN ITEM)

Response Items

There were no response items discussed.

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

Held at Midland Site
Midland, Michigan
November 9 , 1983

Present For:

Stone & Webster	MPQAD
B. Holsinger	R. Oliver
L. Rouen	D. Horn
	D. Kincaid

PURPOSE

This meeting is held to obtain and discuss information relative to Q.A. activities for soils underpinning work at the Midland Plant Units 1 & 2.

DISCUSSION

Status Items

Item 60-1Q - Status of NIR # 16, Crack Monitoring Procedure.

MPQAD has received and reviewed NIR 16. A QAR is being prepared to address the quality concerns. The Assessment Team will receive a copy of the QAR when it is issued. (INFORMATION ITEM)

Item 60-2Q - Status of NIR # 14, Nut Procurement.

The completed response was received by the Assessment Team on November 8, 1983. The response is currently being evaluated. (INFORMATION ITEM)

New Items

There were no new items discussed.

Response Items

Item 60-3Q - Mechanism For Identifying Quality Concerns.

The approved MPQAD procedure was provided to the Assessment Team. (CLOSES ITEM 45-8Q)

Item 60-4Q - Welding Inspection.

In response to Item 57-7Q, MPQAD indicated there is a NRC commitment to perform pre-heat inspections for welds.

For non-structural welds, on temporary material, Q.C. inspects the pre-heat, then per the PQCI attributes verifies that the field engineer has accepted the weld by placing his initials , and date of acceptance next to the weld.

MPQAD stated that , to date, there has not been any non-structural welding performed on permanent installations. Structural welding is not approved by the above described procedure. (CLOSES ITEM 57-7Q)

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

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 Kelber 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

Date	Represented	Purpose
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 rejacking 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

NIR No.	Description	Date (Opened)	Date (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.

Item No.	Description	Closure
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

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

Item No.	Description	Closure
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 Kilker
Project Engineer

W Kilker for AS Gruber
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:

Consumers Power	Bechtel	MPQAD	Stone & Webster
None	J. Fisher	R. Sevo	P. Majeski
	E. Cvikl		
	J. Gaydos		Parsons
			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:

Consumers Power	Bechtel	MPQAD	Stone & Webster
R. Weiland	J. Fisher E. Cvikl J. Gaydos	W. Lytle	P. Majeski B. Holsinger

Parsons

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:

Consumers Power	Bechtel	MPQAD	Stone & Webster
J. Schaub	J. Fisher	R. Sevo	L. Rouen
R. Wieland	E. Cvikl		J. Springer
	J. Gaydos		
			Parsons
			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:

Consumers Power	Bechtel	MPQAD	Stone & Webster
J. Schaub	J. Fisher	R. Sevo	J. Springer
G. Murray	E. Cvikl		L. Rouen
	J. Gaydos		

Parsons

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:

Consumers Power	Bechtel	MPQAD	Stone & Webster
G. Murray	J. Fisher	R. Sevo	J. Springer
	E. Cvikl		L. Rouen
	J. Gaydos		

Parsons

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 refering 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.

STONE & WEBSTER MICHIGAN, INC.

P.O. BOX 2325, BOSTON, MASSACHUSETTS 02107

PRINCIPAL STAFF			
RA		DPRP	
D/RA		DE	
A/RA		DRMSP	
RC		DRMA	
PAO		SCS	
SGA		OL	
ENF		File	

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

December 1, 1983

J. O. No. 14358
Ref. MPF 62

Attention: Mr. R. Cook

DOCKET NO. 50 339/330
MIDLAND PLANT UNITS 1 & 2
INDEPENDENT ASSESSMENT OF UNDERPINNING
REPORT NO. 62

A copy of the Independent Assessment of Underpinning Weekly Report No. 62 for the period of November 20, 1983 through November 26, 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. Also included is a Trip Report prepared by the Stone & Webster Management Review Team for their site visit on October 5, 1983.

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

A. S. Lucks
by WSK

A. Stanley Lucks
Project Manager

Enclosures
ASL/pd

DEC - 5 1983

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

Weekly Report No. 62

November 20, 1983 through November 26, 1983

Personnel on Site

Stone & Webster Michigan, Inc.

W. Kilker	11/20 - 11/21
J. Springer	11/20 - 11/22
L. Rouen	11/20 - 11/22

Meetings Attended

Date	Represented	Purpose
11/21 -11/22	Stone & Webster Bechtel Consumers Power	Daily Assessment Team Meeting
11/21	MPQAD Stone & Webster	Assessment Team Meeting with MPQAD
11/22	Stone & Webster Consumers Power Bechtel	Crack Monitoring Status

Underpinning and Remedial Soils Activities - Construction

The Stop Work Order issued October 21, 1983, continued in effect throughout the week.

Assessment Team - Observations

The Assessment Team has completed an evaluation of the Auxiliary building and SWPS crack monitoring activities. The purpose of the evaluation was to determine if the Subcontractor, Contractor and MPQAD have, to date, followed the intent of the specification and/or procedures. During the course of this evaluation, the Assessment Team has made critical observations of the crack monitoring program (refer to W.R. 59-61) and has issued 3 Nonconformance Identification Reports. The following paragraphs present a summary of the Assessment Team's observations on the performance of the originizations listed above.

In the Team's opinion, the crack monitoring Subcontractor has met the intent of the procedures. However, more attention should be given to details. For example, the Team has noted deficiencies in reporting alert level cracks in a timely manner to the RSE (this deficiency was reported by Resident Engineering), cases of not graphically displaying crack mapping data on the forms, not completing all the required formwork and cases of not keeping procedures current.

The Contractor's Resident Engineering group has been performing the required review of the Subcontractor's data. The Assessment Team has, however, identified some areas of concern, including the need to review the data in a more timely manner and to verify that the Subcontractor is maintaining their procedures current. In addition, the Assessment Team has observed instances where the coordination effort between Resident Engineering and the Subcontractor could be improved.

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

MPQAD has not, in the opinion of the Team, maintained an adequate degree of surveillance of the crack monitoring activities. While the MPQAD procedures have no specific time restrictions for the completion of the QC inspection reports , the Assessment Team feels the present time frame of up to several months for verification of the Subcontractor's data is excessive. Also, the Team noted that the QA group has been delinquent to date in their role with respect to crack monitoring by not having completed an overview report (PIPR).

The Assessment Team believes the deficiencies described above do not invalidate the data collected to date. The Team understands that all of the organizations have taken action to resolve not only the Assessment Team concerns but also the concerns and problems identified by the respective organizations. All concerns will be resolved prior to lifting the Stop Work Order presently in effect at the site.

Work Activity Packages

Work Activity Package 57 has been temporarily rescinded in order to update a procedure revision. WAP's 59 and 71 remain open, awaiting final approval of an FCR and response to one action item, respectively.

Nonconformance Identification Reports

NIR No.	Description	Date (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
19	QA/QC Review of Crack Mapping Data	11/22/83

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.

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

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 and the Weekly Meeting with MPQAD. Carry-over items from past weeks which have been Closed this week, are also listed.

Item No.	Description	Closure
WR9, Daily Meeting Notes, 11/15/82, No. 8	Procedural or Specification Change Verification	Open
WR 30, pg. 3	Project Engineering Evaluation of Welding	Open
WR 51, pg. 2	FCR Final Approval Process	Open
WR 54, pg. 3	Weld Tech Sheets	Open
57-17	Wall Ties	Open
57-6Q	MPQAD Supervisory Personnel	Open
WR58, pg. 2	Lack of Drawing Reference	Open
58-3	Tubular Steel Lagging	Open
58-13	Slurry for Removal of 36 In. Dia Casing	Open
WR 59, pg. 1	Crack Mapping Data Sheets	62-3
59-5	Additional SWPS Cracks	Open
59-20	Processing Mapping Data	62-2
WR 60, pg. 2	Inspection of Non-Structural Welds	Open
60-4	WJE Procedure	Open
61-16	Potential Open Item Review	62-5
62-2	Crack Mapping Procedures	Open

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

Item No.	Description	Closure
62-4Q	MPQAD Review of Crack Monitoring	Open

W E Kelley
Project Engineer

W E Kelley for A S Sachs
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 21, 1983

Present For:

Consumers Power	Bechtel	MPQAD	Stone & Webster
G. Murray	J. Fisher	R. Sevo	J. Springer
	E. Cvikl		L. Rouen
	J. Gaydos		W. Kilker

Parsons

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 62-1 - SWO Status.

J. Fisher reported that FSO still anticipates returning to work the week of November 28, - December 3. However, all issues related to crack mapping must be resolved, as well as the lifting of the SWO, before work can resume. (INFORMATION ITEM)

New Items

There were no new items discussed.

Response Items

Item 62-2 - Crack Mapping Procedures.

E. Cvikl stated that the QAR written on the WJE reporting time (see Item 59-5) does not pertain to the subsequent Bechtel response time. (Refer to Item 59-20). In the case of the WJE action a procedural requirement was violated while in the case of the Bechtel response there was no procedural requirement or violation. E. Cvikl will issue a memo to his staff regarding the importance of responding in a timely manner to WJE submittals. (CLOSES ITEM 59-20) (OPEN ITEM)

Item 62-3 - WJE Crack Mapping Data.

J. Springer stated that all concerns on the WJE data raised in Weekly Report 59 have been adequately addressed either through updating the data entries or through action that will be taken in dispositioning NIRs 16 and 18. The Assessment Team concerns will continue to be tracked in the resolution of NIRs 16 and 18. (Closes Item W.R. 59, pg. 1)

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

Held at Midland Site
Midland, Michigan
November 21, 1983

Item 62-4 - Non-structural Weld Inspection.

J. Fisher indicated that all welding is inspected by Bechtel Field Welding Engineers. All Structural Welding is inspected by Quality Control, while non-structural welds are not. All non-structural welds are identified by an asterisk on the drawings. (INFORMATION ITEM, Item WR 60, pg. 2 Remains Open)

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

Held at Midland Site
Midland, Michigan
November 22, 1983

Present For:

Consumers Power	Bechtel	MPQAD	Stone & Webster
G. Murray	J. Fisher	R. Sevo	J. Springer
	E. Cvikl		
	J. Gaydos		Parsons
			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 62-5 - Review of Potential Open Items.

The Assessment Team reviewed potential open items for weekly reports 1 thru 29. As a result of this review one (1) open item was identified and it is being added to the open item list. (CLOSES ITEM 61-10)

New Items

There were no new items discussed.

Response Items

There were no new response items discussed.

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

Held at Midland Site
Midland, Michigan
November 23, 1983

There was no meeting held on this date.

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

Held at Midland Site
Midland, Michigan
November 24, 1983

No meeting was held on this date.(Site holiday)

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

Held at Midland Site
Midland , Michigan
November 25, 1983

No meeting was held on this date. (Site holiday)

Notes of MPQAD Meeting
Independent Assessment of Underpinning
Midland Plant Units 1 & 2

Held at Midland Site
Midland, Michigan
November 21, 1983

Present For:

Stone & Webster	MPQAD
L. Rouen	J. Meisenheimer
J. Springer	D. Horn
	R. Oliver
	M. DeWitt

PURPOSE

This meeting is held to obtain and discuss information relative to Q.A. activities for soils underpinning work at the Midland Plant Units 1 & 2.

DISCUSSION

Status Items

Item 62-1Q - Use of Supervisory Personnel.

J. Meisenheimer indicated that a response to Item 57-6Q should be finalized this week. (Item 57-6Q Remains Open) (INFORMATION ITEM)

Item 62-2Q - NIR's # 16 and 18.

J. Meisenheimer advised NIR # 16 & 18 will be answered simulataneously since they both deal with crack mapping. (NIR # 16 and # 18 Remains Open) (INFORMATION ITEM)

Item 62-3Q - NIR # 17.

J. Meisenheimer indicated that a response to NIR # 17 will be completed this week. (NIR # 17 Remains Open) (INFORMATION ITEM)

New Item

Item 62-4Q - MPQAD Review of Crack Mapping.

J. Springer requested an update concerning MPQAD's internal problems with respect to crack mapping. Specifically, the Assessment Team is concerned with the extent of the problems, why the problems occurred, and what corrective actions MPQAD will initiate to resolve the problems. J. Meisenheimer gave the following response:

* Currently it takes 1 to 2 months for MPQAD to receive the crack mapping data sheets after WJE submits them to the RSE. The distribution list for data will be changed to provide information to MPQAD concurrently with the RSE.
* MPQAD is reviewing their report log to verify that all the reports have been received. To date MPQAD has received 90 reports out of a total of 127.
* Since October 31, 1983, sixteen (16) Nonconformance Reports and five (5) Quality Action Reports have been written concerning crack mapping. Most of the NCR's were written because of improper graphics with the baseline data and inadequate data entries.
* The extent and type of corrective action has not been finalized. (OPEN ITEM)

Notes of MPQAD Meeting
Independent Assessment of Underpinning
Midland Plant Units 1 & 2

Held at Midland Site
Midland, Michigan
November 21, 1983

Response Items

There were no response items discussed.

TRIP REPORT J.O.No. 14358
INDEPENDENT ASSESSMENT OF UNDERPINNING
MIDLAND NUCLEAR PLANT - UNITS 1&2
CONSUMERS POWER COMPANY

On October 5, 1983, the following members of the Management Review Team for the Independent Assessment of Underpinning visited the site:

J. P. Allen
N. B. Cleveland
G. M. Schierberg

ACTIVITIES

In preparation for the visit to the construction areas, the team members were given a brief course on "Confined Space Training" by Consumers Power Company (CPCo) Staff.

The management team then attended the daily Independent Assessment of Underpinning meeting at which various open items were addressed. For the benefit of the management team, J. Fisher (Bechtel) presented an update on the status of the underpinning and soil remedial work. J. Darby (Bechtel) made a detailed presentation of the building movement monitoring program and the results to date.

Following these presentations and discussions, the management team visited all work areas and observed the work in progress. Areas observed included the east and west access shafts, drifts from KC2 to KC3 and KC10 to KC11, the grillage and pier jacking and monitoring operation, the excavation work progressing from the utility access tunnels (UAT) in the Turbine Building, and the preparations for underpinning around the Service Water Pump Structure.

Each stage of the operation was explained by members of the Stone & Webster Assessment Team and all questions and concerns answered to the satisfaction of the management team. The status and progress in resolution of Nonconformance Identification Reports were also discussed.

CONCLUSIONS

The overall underpinning operation is well organized and proceeding in a controlled and well-documented manner. Although progress is somewhat better than observed during our initial visit on February 2, 1983, it is still well below the anticipated rate. It appears that the most significant factors in restraining the rate of progress are maintaining the flow of materials, inspected and acceptable, into the work areas and the difficulty in expeditiously processing and controlling changes in design and procedures required because of unanticipated conditions in the field. We recommend that these factors be reviewed with the goal of improving the rate of progress.

The instrumentation program continues to be carried out in a very satisfactory fashion with the frequency of reading and plotting of results more than adequate.

In summary, the management team believes the Independent Assessment Team activities are being performed in an effective manner and no change in program is recommended at this time.

J. P. Allen
Management Review Team

JPA:mcg