

STONE & WEBSTER MICHIGAN INC.

P.O. Box 2325, BOSTON, MASSACHUSETTS 02107

United States Nuclear Regulatory Commission
Midland Site Resident Office
Route 1
Midland, Michigan 48640

February 23, 1984

J.O. No. 14358
Ref. MPF 74

Attention: Mr. Cook

DOCKET NO. 50-389/830
MIDLAND PLANT UNITS 1 & 2
INDEPENDENT ASSESSMENT OF UNDERPINNING
REPORT NO. 74

A copy of the Independent Assessment of Underpinning Weekly Report No. 74 for the period of February 12, 1984 through February 18, 1984 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. E. Kuller for AS Lucke

A. Stanley Lucke
Project Manager

Enclosures
ASL/pd

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Q PDR

APR 17 1984

Atlantic Coast
Unit 1 & 2
Independent Assessment of Underpinning

Weekly Report 1, 74

February 12, 1984 through February 18, 1984

Personnel on Site

Stone & Webster Michigan, Inc.

P. Majeski	2/14 - 2/18
L. Benvie	2/13 - 2/18
E. Lykens	2/16 - 2/18
J. Springer	2/12 - 2/14
L. Rouen	2/12 - 2/14
W. Kilker	2/12 - 2/14

Parsons Brinckerhoff, Michigan

J. Oliveira	2/15 - 2/18
E. Metros	2/12 - 2/14

Meetings Attended

<u>Date</u>	<u>Represented</u>	<u>Purpose</u>
2/13 - 2/17	Stone & Webster Bechtel Consumers Power Parsons	Daily Assessment Team Meeting
2/15	Bechtel Spencer & White Prentis	Weekly Schedule Meeting
2/13	Bechtel MPQAD Consumers Power Stone & Webster	Weekly Inter- organizational Meeting
2/17	Consumers Power Bechtel Stone & Webster	Project Soils Meeting

Underpinning and Remedial Soils Activities

Kc-2 to Kc-3 Drift: Concrete placement in the drift invert has been completed.

Kc-3 to Kc-4 Drift: Drifting to Kc-4 is almost complete. Installation of the last drift support set is in progress.

Pier CT-1: Excavation, grouting and placement of lagging in the instrumentation pit of the pier shaft is in progress.

Pier W16: Removal of that portion of the buttress access shaft mudmat within the pier W-16 excavation has been completed. Drilling of expansion anchor holes for the drift post has been completed and installation of drift post has begun.

Pier W-3: Concrete inside pier W-3 has been removed to expose the pier W-4 embedment.

Pier Kc-9: Excavation of the pier shaft is partially in soil with the remainder of the shaft excavation still in fill concrete.

Pier CT-12: Excavation of the drop pit is complete. Excavation and grouting of the pier shaft is in progress.

Pier E13: Installation of the rakers and plates for drift steel support is complete. Drifting and drift support steel installation is in progress.

Pier E13: Excavation and placement of lagging for the pier shaft is in progress. The pier W-4 embedment plates have been exposed inside the pier E13.

Access shafts: Drilling continued for installation of the level C wale supports on the east and west access shafts.

SWPS: Excavation and grouting to the first level of wales continued. Installation of wale seats on the soldier piles is in progress.

Assessment Team Observation - Construction

Pier excavation and drifting operations continued at the Auxiliary Building. Soil conditions observed in piers E/W-13 and Kc-9 were good with only minor groundwater seepage present in all three piers. Localized instability of the granular fill occurred in the vicinity of the pier CT 12 excavation due to groundwater seepage. As a result, the Contractor elected to perform further soil grouting in order to stabilize this soil. Stability of the excavated wall observed subsequent to grouting indicated that the program was effective. The Contractor is continuing to modify the program in accordance with procedures as more difficult ground conditions are encountered.

Lagging placement, backpacking and installation of drift support steel for the Kc-4 drift was observed by the Assessment Team. The installation of support steel was performed in accordance with applicable procedures. Lagging was installed one board at a time and then backpacked prior to installation of the next board. The sand backpacking was tamped firmly and evenly and the lagging placement and backpacking was good resulting in a high quality installation.

After originally being scheduled for placement on 2/10/84, placement of the Kc-2 to Kc-3 drift invert concrete was completed on 2/13/84. The delay resulted from discussions on interpretation of design drawings between FSO and MPQAD. The Assessment Team believes that a more coordinated effort between FSO and MPQAD is needed to ensure that differences in interpretation of design requirements are resolved in a more timely manner.

The unexplained uncoupling of the riser pipe from the head assembly on three of the dewatering wells located along the east side of the north wall of the SWPS, resulted in erosion of approximately 4 to 6 cubic yards of soil around the wells. The eroded soil was deposited in the excavated area between the soldier pile wall and the SWPS north wall. Additionally, the area between the soldier

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Midland Plant
Units 1 & 2
Independent Assessment of Underpinning

pile wall and the SWPS east wall was flooded with 1-2 feet of water. Inspection of the soldier pile wall and the SWPS showed that no damage to either had occurred. The Contractor is in the process of investigating the cause of the equipment failure and the need for remedial action.

Assessment Team Observation 3A/CC

The Assessment Team has evaluated the performance of the crack monitoring Subcontractor, the Resident Engineering group and MPQAD in response to their upgrading of the crack monitoring activities discussed in the Assessment Team Weekly Report No. 62. The Subcontractor (Wiss, Janney, Elstner) has modified on-site staffing to provide better coverage for performing activities to the revised procedures. The intent of the procedures is being met. However, minor deficiencies continue to occur in terms of timely submittal of data, proper completion of the forms and the graphical display of the cracks. These deficiencies have been noted through some 25 NCR's written against these activities over the past several weeks. The Assessment Team believes that the nature of these deficiencies is such that the data collected should still be considered valid. However, WJE must strive to improve the accuracy and timing of the data reporting. The Contractor's Resident Engineering group has completed a review of the existing monitoring program and has performed a crack survey throughout the Auxiliary Building. (A similar review and survey are underway in the SWPS.) Modifications to the existing program were made and the results of the survey have been given to the Assessment Team and the NRC. The Contractor's Resident Engineering and QA staff have reviewed the WJE QA manual to determine if revisions are required. The Assessment Team believes the action taken by Engineering have been appropriate and enhance the quality of the activity. The Assessment Team's observations indicate that MPQAD is completing their QC Inspection Reports and QA overview reports in a timely manner. In addition, the Assessment Team feels that the QC surveillance of the WJE activities has been adequate.

The Assessment Team reviewed a sample of 134 QC Inspection Reports (IRs) that had been closed out during the past week. The IRs covered fabrication of the structural and miscellaneous steel, welding of non-ASME items, expansion anchor installation, ground stabilization for the SWPS, and excavation and lagging placement for access pits, pier shafts and pier drifts. The inspection reports reviewed were completed accurately and the qualifications and certifications of the inspectors were found to be acceptable.

Work Activity Packages

The following Work Activity Package 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>
58	Bracket & Struts at E/W-10, Struts at E/W-11 and Mass Excavation of Zones Y/Z-3	Opened 2/14/84

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>	
		<u>(Opened)</u>	<u>(Closed)</u>
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.

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 Reports 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>
57-17	Wall Ties	74-27
58-3	Tubular Steel Lagging	Open
64-7	QAP Review Program	Open
64-10	Trend Analysis	Open
WB 64, Pg. 1	US Testing Corrective Action	74-21
70-2	Review of Crack Mapping Program	74-11
71-4	US Testing Work Instructions	Open

12-10-88
Plant
Unit 1 & 2
Independent Assessment of Underpinning

<u>Item No.</u>	<u>Description</u>	<u>Closure</u>
71-9	US Testing QA Manual	Open
71-17	Computerized Civil Drawing Register	Open
71-29	Use of "Retired" FCRs	Open
72-12	Welding Procedures	Open
72-26	Recertification of Equipment and Tools	74-3
74-17	Co-ordination of Concrete Placement Activities	Open
74-21	US Testing Corrective Action	Open
74-25	Expansion Anchors	Open

W.E. Kallan
Project Engineer

W.E. Kallan for H.S. Louche
Project Manager

Notes of Meeting
Independent Assessment of Reactor Building
Midland Plant, Unit 1 & 2
Consumers Power Company

Held at Midland Site
Midland, Michigan
February 13, 1984

Present For:

<u>Consumers Power</u>	<u>Bechtel</u>	<u>EG&G</u>	<u>Stone & Webster</u>
J. Murray	J. Fisher	R. Seva	D. Bervie
R. Wheeler	E. Cykiel	J. McMaster	W. Kilker
	C. Gaydos		J. Springer
			L. Rouen
			<u>Parsons</u>
			B. Matros

PURPOSE

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

Status Items

Item 74-1 - Auxiliary Building Underpinning Activities.

The access pit to pier E-16 is complete. Drifting to the pier shaft began but is presently on hold while an FCR written against a Hilti embedment that was not installed to its full length is resolved.

Excavation for pier Kc-9 has progressed to el. 586 .

Excavation has progressed to el. 598 for piers CT-1 and CT-12. Lagging in these piers has moved downward approximately 1/2 to 3/4 in. This movement is attributed to rigidity of the grouted soil which prevents friction from developing between the soil and lagging. To alleviate this, 18 in. long spilings have been driven into the soil beneath every fourth lagging.

Excavation of the access pit to pier W-16 is near completion.

Drifting to pier Kc-4 has ceased until an NCR written against double washers installed with the Hilti bolts for one of the drift sets is resolved.

Excavation and lagging installations for piers E/W-13 is in progress.

(INFORMATION ITEM)

Item 74-2 - Welding Procedures.

J. Springer provided a status on the Assessment Team review of the revised welding procedures. The response to the two findings contained in NIR # 21 (i.e. root opening values and welding progression) have been satisfactorily addressed and the Assessment team closed the NIR on 2/10/84. The procedures were also reviewed with regards to the Assessment Team comments concerning clarification of preheat requirements, stainless steel welding procedures

Water & Utility Meeting
Independent Assessment of Docket No. 1
Midland Plant, Units 1 & 2
Consumers Power Company

Held at Midland Site
Midland, Michigan
February 13, 1984

and reference to Shielded Metal Arc Welding process. The Assessment Team concurs that the applicable procedures with the exception of MCP-70.00 have been adequately revised to address these comments. MCP-70.00 will be revised to address requirements for performance of welding under conditions of severe external shrinkage restraint. Sehtel will verify that past welding was not subject to severe external shrinkage restraint conditions at the time the weld was made. (Item 72-12 remains OPEN) (INFORMATION ITEM)

New Items

Item 74-3 - Pipe Interference with Pier W-6.

J. Springer questioned if the pipe encasement encountered in the Kc-3 to Kc-4 drift will interfere with installation of pier W-6. J. Fisher will respond. (OPEN ITEM)

Item 74-4 - Kc-2 to Kc-3 Drift Invert Concrete.

J. Springer requested that MPQAI provide details on the events which resulted in the delay of the concrete pour for the Kc-2 to Kc-3 drift invert on 2/10/84. J. McMaster will respond. (OPEN ITEM)

Item 74-5 - Revised Crack Mapping Criteria.

J. Springer asked if a schedule has been developed for issuance of revised crack mapping criteria. G. Murray responded that the NRC is still reviewing the revised criteria. Once the review is complete and agreement is reached between CP Co. and the NRC, the revised criteria will be issued. (CLOSED ITEM)

Item 74-6 - Oil Observed at Jacks.

B. Metros stated that he observed oil around the jacks at piers Kc-2 and Kc-11 and questioned if the jacks were leaking. J. Fisher will respond. (OPEN ITEM)

Item 74-7 - Tension in FIVP Bolts.

L. Rouen asked if there is an ultrasound method for checking tension in the FIVP bolts. R. Wheeler responded that an ultrasound method does exist, but is not being implemented because manual checking of bolt tension has become a time efficient operation. There would be little to be gained by varying the method. (CLOSED ITEM)

Notes of Daily Meeting
Independent Assessment of Inconel 600
Midland Plant, Units 1 & 2
Consumers Power Company

Held at Midland Site
Midland, Michigan
February 13, 1984

New Items

Item 74-8 - Discontinued Use of Weldcrete.

W. Kilker asked why the abandoned drill holes were now being wet-cured for a day prior to grouting. J. Gaydos said that the Certificate of Compliance from the Weldcrete manufacturer required resubmission. Until this concern is resolved the wet cure of the in-situ concrete will be required. (CLOSED ITEM)

Item 74-9 - QC Inspector Certification.

L. Rouen asked what is the status of a QC inspector whose certification had been recently revoked because of failure to pass an eye exam. J. McMaster replied that a QAR has been opened. A copy of the dispositioned QAR will be given to the Assessment Team. (OPEN ITEM)

Item 74-10 - Proper Identification of Non-Q Purchased Material.

B. Metros questioned the status of an NCR written on the lack of identifying marks on a group of non-Q purchased washers. J. Gaydos replied that the NCR has been dispositioned and the materials properly identified. (CLOSED ITEM)

Response Items

Item 74-11 - Review of Crack Monitoring Reports.

J. Springer reported the Assessment Team has reviewed 1) all of the CTL reports on crack evaluations issued since the first of the year, and 2) the Resident Engineering's report on an Engineering Survey of the Auxiliary Building Cracks. The Team has performed an independent evaluation of the alert level cracks noted in the Control Tower slab at el. 685'. The Assessment Team believes the reports and actions taken adequately address the crack monitoring issues raised over the past 3 months. In addition, the Team is aware that CP Co. has supplied responses to the NRC on crack monitoring concerns the NRC stated during a January 4-6 site meeting. (CLOSED ITEM 70-2)

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

Held at Midland Site
Midland, Michigan
February 14, 1984

Present For:

<u>Consumers Power</u>	<u>Bechtel</u>	<u>MPQAD</u>	<u>Stone & Webster</u>
G. Murray	J. Fisher	E. Sevc	D. Benvie
P. Wheeler	E. Cviki	E. Wheeler	W. Kilker
	J. Caydos		J. Springer
	P. VanderVeer		L. Rouen
	J. Darby		
			<u>Parsons</u>
			E. Metros

PURPOSE

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

DISCUSSION

Status Items

Item 74-12 - Auxiliary Building Underpinning Activities.

The NCR written due to incomplete penetration of Hilti bolts for work on pier E-16 has been dispositioned to "use as is" allowing resumption of drifting operations to the pier.

Placement of concrete for the Kc-2 to Kc-3 drift invert has been completed.

Excavation for pier Kc-9 continues through the fill concrete.

Excavation of the access pit to pier W-16 is complete. Drifting to the pier is scheduled to start today.

(INFORMATION ITEM)

Item 74-13 - Discontinued Use of Weldcrete.

P. VanderVeer provided a detailed explanation as to why the use of Weldcrete has been discontinued. An MPQAD audit finding stated that in addition to resolving deficiencies with the certification of compliance, proper documentation has not been provided to ensure that policies governing quality control of standard manufactured (bulk) items such as Weldcrete are met. Until this audit finding has been resolved, the use of Weldcrete has been discontinued. (INFORMATION ITEM)

Item 74-14 - QC Inspector Certification.

J. McMaster provided the Assessment Team with a copy of the QAF opened to address the situation related to the eye exam failure of a QC inspector. The QC inspector has been retested and passed the reexamination. MPQAD will reinspect work completed by the Q.C. inspector subsequent to his last satisfactory eye exam for verification of quality. (Item 74-9 remains OPEN) (INFORMATION ITEM)

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

Held at Midland Plant
Midland, Michigan
February 14, 1984

New Items

Item 74-15 - NCRs on Crack Monitoring.

J. Springer noted that 15 NCRs have recently been written concerning crack monitoring activities. The nonconforming conditions described in the NCRs are generally procedural in nature. E. Cwikl stated that FSO has met with the crack monitoring subcontractor concerning the recent NCRs. The procedural deficiencies have been attributed to the workload of the crack monitoring subcontractor. Additional crack monitoring teams have been added to decrease the workload. Additionally, the crack monitoring subcontractors QA manual is being revised to address the handling of documents. (CLOSED ITEM)

Response Items

Item 74-16 - Pipe Interference with Pier W-6.

J. Fisher responded to the question raised yesterday about possible interference with the pipe encasement encountered in the Kc-4 drift and pier W-6. Review of the drawings show that the proximity of the pipe encasement has been considered in the design of pier W-6. (CLOSES ITEM 74-3)

Item 74-17 - Kc-2 to Kc-3 Drift Invert Concrete.

The causes for the delay of concrete placement of the Kc-2 to Kc-3 drift invert on 2/10/84 were discussed. A misunderstanding between MPQAD and FSO on requirements for rebar placement resulted in the cancellation of concrete placement at the drift invert. There was general agreement in today's meeting that more coordinated effort is needed on the part of FSO and MPQAD to prevent the same type of delays from occurring for future concrete placement activities. The Assessment Team will monitor future concrete placement activities to observe the co-ordination process between MPQAD and FSO. (CLOSES ITEM 74-4) (OPEN ITEM)

Item 74-18 - Oil Observed at Jacks.

J. Fisher provided a response in regards to oil observed around the jacks at piers Kc-2 and Kc-11. After the oil was cleaned up, no additional oil was observed around the jacks, indicating that the oil was not associated with leaking of the jacks. (CLOSES ITEM 74-6)

Notes of Daily Meeting
Independent Assessment of Health Status
Midland Plant, Units 1 & 2
Consumers Power Company

Held at Midland Site
Midland, Michigan
February 15, 1984

Present For:

<u>Consumers Power</u>	<u>Bechtel</u>	<u>MPCAL</u>	<u>Stone & Webster</u>
F. Wheeler	J. Fisher	R. Sevc	D. Benvie
	E. Cvikel	J. McMaster	F. Majeski
	J. Gaydos		
			<u>Parsons</u>
			J. Oliveira

PURPOSE

The purpose of this meeting is to discuss items regarding the Independent Soils Assessment at the Midland Plant, Units 1 & 2.

DISCUSSION

Status Items

Item 74-19 - Auxiliary Building Underpinning Activities.

Probing performed in pier Kc-9 indicates two to three feet of fill concrete remain.

Preparations are being made to install the support strut in pier W13.

(INFORMATION ITEM)

Item 74-20 - Recertification of Equipment and Tools.

J. Fisher advised that a system for tracking renewal of certification for jacks, gages, torque wrenches and other quality related equipment is in effect. Additionally, for items requiring calibration at the Batch Plant, QC maintains a status list at the Batch Plant. In addition to tracking quality related equipment, J. Oliveira asked if there is a tracking system for certification renewal of items such as cranes and any additional equipment used in the underpinning work. (Item 72-26 remains OPEN) (INFORMATION ITEM)

New Items

No new items were discussed.

Response Items

Item 74-21 - US Testing Corrective Actions.

F. Majeski requested that FSO provide the following information with respect to US Testing:

1. Copies of completed revised QCP's which include the Work Instructions.
2. An updated matrix of completed cross training of inspectors.
3. An updated list of completed certifications for the Lab chiefs.

With the exception of the above 3 items the Team feels that US Testing has completed the upgrading commitments originally mentioned in Weekly Report 64. (CLOSES WR 64, pg. 1) (OPEN ITEM)

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

Held at Midland Site
Midland, Michigan
February 16, 1984

Present For:

Consumers Power

R. Wheeler
G. Murray
J. Schaub *
J. Mooney *

Bechtel

I. Fisher
E. Cvikl
J. Gaydos

NRCAD

R. Sevo
J. McMaster
M. Dewitt

Stone & Webster

D. Benvie
P. Majeski

Parsons

J. Oliveira

Part time *

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 74-22 - Auxiliary Building Underpinning Activities.

The embedment plates on pier W-14 have been exposed in pier W-13.

Removal of that portion of the buttress access shaft mudmat within the pier W-16 excavation has been completed.

Installation of the rakers between the drift posts and raker plates in the pier E-16 access pit is complete.

(INFORMATION ITEM)

Item 74-23 - US Testing QA Manual.

J. Gaydos reported that the revised US Testing QA manual is presently being reviewed by project engineering and issuance of the manual is forecasted for 2/29/84. The revised QA manual will contain the new frequency criteria for incorporating change notices into the main body of the manual. In the future the QA manual will be revised to incorporate change notices when the number of change notices exceeds five, but no later than 45 days after issuance of a change notice. (Item 71-9 remains OPEN) (INFORMATION ITEM)

New Items

Item 74-24 - Weekly Report No. 73.

Weekly Report No. 73 was reviewed for open items. It was determined that all open items had been previously identified. (CLOSED ITEM)

Notes of Daily Meeting
Independent Assessment - Midland Title
Midland Plant, Units 1 & 2
Corrosion Power Unit

Held at Midland Title
Midland, Michigan
February 19, 1984

Item 74-25 - Expansion Anchors.

J. Oliveira noted that a substantial number of NCRs have been issued due to loosening of the washers on expansion anchors. J. Oliveira asked if alternate construction methods are being evaluated to address the problem associated with the loose washers. E. Cvikel stated that a list has been developed containing possible solutions which range from reducing the torque on the anchorage system to a redesign of the anchorage system. The Assessment Team will track this item for resolution. (ITEM ITEM)

Response Items

Item 74-26 - QC Inspector Certification.

The Assessment Team has reviewed the response to the QAR generated due to the failure of a QC inspector to pass an eye exam. The QC inspector has successfully passed a reexamination and no impact on quality of work performed subsequent to the QC inspector's last satisfactory eye exam was found. The Assessment Team concurs with the QAR response and item 74-9 is now closed. (CLOSES ITEM 74-9)

Item 74-27 - Wall Ties.

The Assessment Team has reviewed the FCR issued to revise the requirements for use of wall ties. The Assessment Team concurs with the revised requirements specifying the use of wall ties only when LF-grout is used in the pier bell. (CLOSES ITEM 57-17)

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

Held at Midland Site
Midland, Michigan
February 17, 1984

Present For:

Consumers Power

G. Murray

Bechtel

J. Fisher
E. Cvikel
J. Gaydos

MPC&I

F. Sava
J. McMaster

Stone & Webster

D. Benvie
P. Majeski

Parsons

J. Oliveira

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 74-28 - Auxiliary Building Underpinning Activities.

Excavation of the pier shaft for pier CT-12 has begun.

The drift excavation to pier Kc-4 is almost complete. Installation of one drift support set remains. (INFORMATION ITEM)

Item 74-29 - Welding Procedures.

J. Fisher stated that issuance of an FCR incorporating a statement into MCP-70.00 addressing requirements for performance of welding under conditions of severe external shrinkage restraint is scheduled for today. Also a review to verify that completed welding was not subject to severe external shrinkage restraint should be completed by 2/22/84. (Item 72-12 remains OPEN) (INFORMATION ITEM)

New Items

Item 74-30 - Overview of Resident Engineering Controlled Documents.

P. Majeski stated that an overview of the Resident Engineers controlled document station has been initiated this morning. (INFORMATION ITEM)

Response Items

Item 74-31 - Recertification of Equipment and Tools.

J. Gaydos responded to the Assessment Team's request for information on certification renewal and maintenance records for cranes and other construction equipment used in the underpinning work. A safety engineer's report and an annual inspection report are issued to track certification renewal and maintenance

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

Held at Midland Site
Midland, Michigan
February 12, 1984

of the equipment. The Assessment Team is satisfied that these methods are effective for tracking maintenance and certification of construction equipment used for the underpinning work. (CLOSED ITEM 72-26)

Notes of MPCAD Meeting

- Independent Assessment of ...
Midland Plant Units ' & ' 2

Held at Midland Site
Midland, Michigan
February 17, 1984

No MPCAD meeting was held this week.