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May 10, 1984

United States Nuclear Regulatory Commission
Midland Site Resident Office
Route 7
Midland, Michigan

J.O. No. 14358
Ref. MPF 85

Attention: Mr. Cook

DOCKET NO. 50-339/330
MIDLAND PLANT UNITS 1 & 2
INDEPENDENT ASSESSMENT OF UNDERPINNING
REPORT NO. 85

A copy of the Independent Assessment of Underpinning Weekly Report No. 85 for the period of April 29, 1984 through May 4, 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.

ASL

A. Stanley Lucks
Project Manager

Enclosures
ASL/bd

cc:
JHarrison (enc), US NRC Glen Ellyn IL
Grace Dow Memorial Library (enc)
DQuamme (enc) CP Co Midland (site)
JMooney (enc) CP Co Jackson
JMeisenheimer (enc) MPQAD Midland (site)

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Weekly Report No. 85

April 29, 1984 through May 4, 1984

Personnel on Site

Stone & Webster Michigan, Inc.

P. Majeski	4/29 - 5/1
D. Benvie	4/30 - 5/4
D. Zito	4/30 - 5/4
W. Kilker	5/3 - 5/5
L. Rouen	5/1 - 5/5

Parsons Brinckerhoff Michigan, Inc.

J. Oliveira	4/29 - 5/1
B. Metros	5/2 - 5/5

Meetings Attended

<u>Date</u>	<u>Represented</u>	<u>Purpose</u>
4/30 - 5/4	Stone & Webster Bechtel Consumers Power Parsons	Daily Assessment Team Meeting

Underpinning and Remedial Soils - Construction

Pier E5: Excavation of the bell area was initiated. One short side and half of one long side were completed. The belled sections are completely supported with steel plating. Minor water seepage continues to enter the bell area from above. Excavation and support of the containment drop pit was completed. The area between the pier and the containment drop pit was formed in preparation for the concrete working slab installation.

Pier E17: The center portion of the enlarged straight shaft pier was excavated and the mudmat installed.

Piers CT 3/10: The drop pit excavations and supports were completed to El. 594 ft.

Pier W5: Excavation and support of the bell area was completed. The drop pit excavation at the containment was also completed and the formwork placed for the concrete working slab between the pier and drop pit.

Pier W17: No further activity was performed pending fabrication of lagging materials to support an enlarged straight shafted pier.

Kc5 Drift: The finger drift to the pier was completed.

Access Shaft Level "C" Wales: Fit-up and welding of the wales continued in both shafts.

SWPS: Installation of the upper level wales and struts continued on the north and west sides. Excavation and lagging was completed to El. 626 along the east side and easternmost 20 ft of the north side.

Extension of the bentonite seal between the SWPS and the circulating water intake structure was completed. The base of the seal was extended to penetrate through the rip rap layer on the front side of these structures and prevent leakage at the joint between the structures.

BWSTs: Concrete was placed along the north section of the ring beam extension at Unit 1. Reinforcing steel and formwork installation continued at Unit 2.

Cathodic Protection: Trench excavation work continued.

Assessment Team Observations - Construction

During the past week, the construction effort for the auxiliary building underpinning concentrated on the excavation of five piers and drifting to two other piers. The Assessment Team observed the bell excavations for piers E/W5, concrete mudmat placement for piers E5 and E17, soils stabilization grouting for CT 3/10 and drifting to pier Kc5.

Minor water seepage was encountered during belling of the E5 pier. In order to preclude sloughing of the in-place soil, the Contractor was careful to expose only small areas of the bell prior to the installation of plate supports and bracing. Although soil conditions for pier W5 appeared stable, the Contractor elected to plate and brace the entire bell. The Assessment Team believes these measures undertaken to ensure the stability of the E/W5 bells were prudent. Placement of the grout mudmat for the E5 and E17 piers was in accordance with the procedures. Prior to grout placement, minor seepage in pier E5 was diverted from the founding soils. Duration of grout mixing was timed to ensure thorough mixing of the grout constituents as specified by the design. Grout placements was continuous, concluding the satisfactory installation of the mudmats for piers E5 and E17.

The results of the soil's stabilization grouting performed in piers CT 3/10 drop pits indicate that this installation was effective. The medium to fine grained sand observed on the excavated walls for these drop pits was cemented throughout, enabling the craftsmen to maintain a vertical excavation face, thus facilitating lagging installation.

The finger drift to pier Kc5 was observed by the Assessment Team. The Contractor maintained a close tolerance on the horizontal limits of the excavation. Lagging installation and backpacking associated with this drift conformed with the applicable procedures.

Installation of the upper lateral support system for the soldier pile wall along the east side of the SWPS was completed, allowing excavation of the access shaft to proceed. The Assessment Team observed excavation and lagging installations associated with lowering of the access shaft. The Contractor was careful to maintain the excavation well within the design limits, minimizing the amount of backpacking needed to ensure bearing between the lagging and in-situ soil. Placement of steel lagging was precise. The craftsmen carefully aligned the lagging during installation, ensuring lagging spacing requirements were met. The Contractor began using welded studs this week to expedite lagging installation. Clip angles which fasten the steel lagging to the soldier piles are attached to the lagging with the threaded studs instead of fillet welds. The clip angles are then secured to the soldier piles. The lagging surfaces receiving the welded studs were dry and clean. During installation of studs, the welding gun was held in place until the weld metal at the base of the stud had solidified. Welded stud bolts were then torqued to the appropriate tension, securing the clip angles into place.

Along the north side of the SWPS, installation of the soldier pile wall upper lateral support system continued. The Assessment Team observed full penetration welding of the horizontal shims for the upper level waler. The wall, soldier piles and shim plates were brushed to bare metal in preparation for the welds. The resulting quality of the full penetration welds, considering the size and extent of the effort involved with this type of weld, is indicative of a high level of craftsmanship.

Based on the observed quality of the on-going work, the Assessment Team concludes that construction of the SWPS access shaft is satisfactory.

Placement of concrete for the north section of the Unit 1 BWST ring beam addition was observed by the Assessment Team. During placement, the Contractor effectively used a concrete boom truck to deposit concrete at preplanned locations, thereby minimizing the need for lateral movement of the concrete. Concrete lift thicknesses and vibration of lifts was in accordance with the procedures. Proper curing of the surfaces completed the satisfactory placement of concrete for the north segment of the BWST Unit 1 ring beam addition.

Assessment Team Observation QA/QC

The Assessment Team closed NIR 22. This NIR concerned document control deficiencies identified at the Resident Engineers controlled document station for the remedial soils work. The document deficiencies noted in NIR 22 have been corrected by Resident Engineering. MPQAD and the Assessment Team independently verified correction of the deficiencies. Additionally, a sample audit by

MPQAD indicated that Resident Engineering is adequately maintaining their documents. As part of the long term corrective action, a system will be implemented whereby the Resident Engineers controlled documents will become reference documents. The Assessment Team will overview this change over from controlled documents to a reference system. A computerized register of design documents including change documents will serve as the means of control for the reference documents. The user will consult the listing and review the pertinent information in the reference files for a particular document as necessary to perform a given task. The Assessment Team believes that implementation of this system will provide the required assurance that the Resident Engineers are using the latest design document revisions.

The activities of US Testing for concrete placement at the BWST Unit 1 ring beam addition were observed during preplacement and in-process testing. All required concrete testing was performed in accordance with ASTM procedures.

The Assessment Team attended MPQAD training classes on the SWPS plate load test and on excavation of Q soils areas. Both of these classes were judged to be acceptable in content and presentation.

Work Activity Packages

No work activity packages were overviewed or active during the past week.

Nonconformance Identification Reports

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

<u>NIR No.</u>	<u>Description</u>	<u>Status</u> (Opened) (Closed)
22	Resident Engineering Document Control	2/21/84 4/30/84
25	Compressive Strength Testing of Concrete Cylinders	3/30/84

Open Items

Items discussed during meetings are categorized as follows:

OPEN ITEM - An item for which 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 items stops.


The following listing of all Open items from the Daily meeting notes with Bechtel and the text of the 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>
64-10	Trend Analysis	Open
71-17	Computerized Civil Drawing Register	Open
74-21	US Testing Corrective Action	Open
79-26	Upper Leveling Plates	Open
79-28	SWPS Backpacking Material	Open
79-34	SWPS Backpacking Placement	Open
81-21	BOP Construction Verification of Soils Work	Open
82-3	Surface Voids in Grout	85-12
82-9	Trend Analysis Update	Open
84-12	Diesel Fuel Oil Lines	85-6
84-13	SWPS Phase II Cofferdam	85-7
84-20	Design Drawing Requirements for BWST Ring Beam Addition	Open
84-21	Repair of BWST Ring Beam Cracks	85-18

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

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84-22	BWST Concrete Reinforcing Steel	85-19
84-23	BWST Corrosion Protection and Waterproofing	85-20
84-24	Repair of Concrete Surface Imperfections of the BWSTs	85-13
85-5	SWPS North Wall Concrete Surface	Open
85-29	Auxiliary Building Access Shaft Grout Shims	Open


Project Engineer


Project Manager

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

Held at Midland Site
Midland, Michigan
April 30, 1984

Present For:

Consumers Power

G. Murray
R. Wheeler
R. Wieland

Stone & Webster

D. Benvie
D. Zito
P. Majeski

Parsons-Brinckerhoff

J. Oliviera

Bechtel

J. Fisher
J. Kelleher
E. Cvikl

MPAQD

J. McMaster
R. Sevo

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 85-1 - Auxiliary Building Underpinning Activities

Installation of the steel collar support frames was completed for piers CT 2/11 allowing drifting to piers CT 3/10 to commence.

Excavation of the drop pits at the reactor containment for installation of the E/W5 grillage support columns is in progress.

Excavation of piers E/W5 progressed to the top of the bell and installation of the ring beams was completed.

Excavation of the E17 pier has begun using the enlarged pier configuration.

Installation of reshore members to allow finger drifting to piers KC 5/9 is in progress.

(INFORMATION ITEM)

Item 85-2 - SWPS Underpinning Activities

J. Fisher reported that excavation below the first level wales has begun along the east side of the SWPS. (INFORMATION ITEM)

Item 85-3 - Surface Voids in Grout

J. Kelleher provided the Assessment Team with copies of FCRs addressing repair of minor surface voids in the grout for leveling plates, anchor bolts and grouted-in bolts. (Item 82-3 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
April 30, 1984

New Items

Item 85-4 - One Time Deviation FCRs

P. Majeski asked how a document user determines if the work described in a one time deviation FCR, which has been incorporated onto a document by reference, is complete. J. Fisher responded that FCRs incorporated by reference contain a brief description of the FCR requirements. If the FCR is applicable to the document user's work, a copy of the FCR is available for the user to determine if the work has been completed. (CLOSED ITEM)

Item 85-5 - SWPS North Wall Concrete Surface

D. Zito discussed the existing concrete surface on the SWPS north wall. It was noted that a section of the wall approximately 3 ft long and 1.5 ft high located 26 ft from the SWPS northeast corner exhibited honeycombing. Also, several form tie holes were observed which have not been repaired. The Assessment Team asked what will be done to repair these conditions. J. Fisher will respond. (OPEN ITEM)

Response Items

Item 85-6 - Diesel Fuel Oil Lines

J. Fisher responded to the Assessment Team question concerning the plans for work on the diesel fuel oil lines. It is planned to excavate and expose the diesel fuel oil lines for inspection. All portions of the lines which are considered acceptable will be left in place. The remaining portions will be removed and replaced with new lines. (CLOSES ITEM 84-12)

Item 85-7 - SWPS Phase II Cofferdam

J. Fisher discussed design changes which will be implemented for the SWPS Phase II cofferdam. These changes are as follows:

- A. Wood lagging will be used for the soldier pile wall in those areas where the lagging span is 8 ft or less.
- B. Soldier piles will be installed full depth in sheeted pits. Previously, the design called for the use of drilling for installation of that portion of soldier pile excavations below the existing utilities.
- C. Based on available subsurface information, excavation for the Phase IIA portion of the cofferdam will not go below El. 610 ft. This will eliminate the lower bracing at El. 612.5 ft.

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

Held at Midland Site
Midland, Michigan
April 30, 1984

- D. The top 8 ft of excavation for the Phase IIB portion of the cofferdam will be sloped 1H:1V. This will eliminate the lower bracing at El. 612.5' in portions of the Phase IIB cofferdam. (CLOSES ITEM 84-13)

Item 85-8 - NIR 22 - Resident Engineering Document Control

The Assessment Team has completed an overview of corrective action taken to address deficiencies with the Resident Engineers controlled documents noted in the NIR 22. Document deficiencies have been corrected by Resident Engineering. Additionally, a sample audit by MPQAD indicates that Resident Engineering is maintaining their documents adequately. Based on the sample audit results and a review by the Assessment Team that the noted document deficiencies were corrected, NIR 22 is closed. (INFORMATION ITEM)

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

Held at Midland Site
Midland, Michigan
May 1, 1984

Present For:

Consumers Power
G. Murray

Stone & Webster
D. Benvie
D. Zito
P. Majeski

Parsons-Brinckerhoff
J. Oliviera

MPQAD
J. McMaster
R. Sevo

Bechtel
J. Fisher
J. Kelleher
E. Cvikl

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 85-9 - Auxiliary Building Underpinning Activities

Excavation and soils stabilization grouting is in progress for the CT 3/10 drop pits.

Excavation for the E/W5 piers has proceeded into the pier bell area.

Item 85-10 - Trend Analysis

J. McMaster stated that MPQAD will give a presentation on 5-4-84 detailing their plans for modifying the NCR trend analysis program that is currently being used. (Item 64-10 remains OPEN) (INFORMATION ITEM)

Item 85-11 - SWPS Backpacking Material

J. Fisher discussed the backpacking material for the SWPS soldier pile wall. The contractor plans to mix cement with the present backpacking to aid in maintaining the backpacking in-place once it is installed. (Item 79-28 remains OPEN) (INFORMATION ITEM)

New Items

No new items were discussed.

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

Held at Midland Site
Midland, Michigan
May 1, 1984

Response Items

Item 85-12 - Surface Voids in Grout

The Assessment Team has reviewed FCRs issued to address repair of minor surface voids in grout for leveling plates, anchor bolts and grouted anchors. Based on a review of these FCRs, the Assessment Teams believes that requirements for repair of minor grout surface imperfections are adequately addressed. This item is closed. (CLOSES ITEM 82-3)

Item 85-13 - Repair of Concrete Surface Imperfections of the BWSTs

J. Fisher responded to the Assessment Team question concerning timely repair of surface imperfections for the BWST ring beam addition. Repair of surface imperfections for the BWST ring beam additions had been delayed due to the stop work order and because of scheduling changes. It is planned, as the work activity allows, to repair these surface imperfections before the affected area is covered up. (CLOSES ITEM 84-24)

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

Held at Midland Site
Midland, Michigan
May 2, 1984

Present For:

<u>Consumers Power</u>	<u>Bechtel</u>	<u>MPQAD</u>	<u>Stone & Webster</u>
C. Murray	J. Fisher	J. McMaster	D. Benvie
J. Schaub	J. Kelleher	R. Sevo	D. Zito
	E. Cvikl		L. Rouen
	B. Brandes		
			<u>Parsons Brinckerhoff</u>
			B. Metros

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 85-14 - Auxiliary Building Underpinning Activities

Excavation of the E5 pier to founding grade and placement of the concrete mudmat was completed.

Excavation of the E17 pier middle shaft was completed. Installation of reinforcing steel is expected to begin today.

Excavation of the drop pit for installation of the E5 grillage support columns at the reactor containment was completed.

Excavation of the finger drift to pier Kc5 has begun. (INFORMATION ITEM)

Item 85-15 - SWPS Underpinning Activities

J. Fisher stated that the FCR allowing the use of wood lagging in areas where the lagging span is less than 8ft will be issued today. Tubular steel lagging will still be used where the lagging span exceeds 8 ft. (INFORMATION ITEM)

New Items

Item 85-16 - BWST Concrete Placement

J. Fisher reported that concrete placement is scheduled today for the BWST Unit 1 ring beam addition. (INFORMATION ITEM)

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

Held at Midland Site
Midland, Michigan
May 2, 1984

Item 85-17 - Upper Leveling Plates

J. Kelleher provided the Assessment Team with a copy of the Field Engineers' report summarizing the results of the welding demonstration conducted on 4/20/84. This demonstration was performed to evaluate the extent of warping that would result with the use of a smaller weld for the upper leveling and bearing plate assembly. (INFORMATION ITEM) (Item 84-3 remains OPEN)

Item 85-18 - Repair of BWST Ring Beam Cracks

E. Cvikel responded to the Assessment Team question as to whether the cracks on the underside of the valve pit top slabs at the BWSTs are to be repaired. He stated that the cracks have been evaluated and it has been determined that these cracks do not require repair. (CLOSES ITEM 84-21)

Item 85-19 - BWST Concrete Reinforcing Steel

J. Fisher responded to the Assessment Team question concerning exposure of the Unit No. 1 BWST reinforcing steel to water and dirt. The low area on the west side of the Unit 1 BWST where this condition had been occurring has been cleaned up. Additionally, pumps have been reactivated in this low area to remove water that had collected. It was also noted that the discharge of water pumped thru the valve pit into this low area has been stopped. D. Zito stated that he has been observing the contractors efforts to clean up and dewater the noted area and is satisfied with the results of the cleanup. (CLOSES ITEM 84-22)

Item 85-20 - BWST Corrosion Protection and Waterproofing

E. Cvikel responded to the Assessment Team question concerning corrosion protection and waterproofing requirements for the BWSTs. He stated that there was not a concern with the channel sections contributing to corrosion of the reinforcing steel.

The channel sections which support the reinforcing cage do not come in contact with the insitu soil because they rest on a concrete mudmat. The presence of the mudmat prevents the insitu soil from corroding the channel sections and the reinforcing cage. In response to Assessment Team concerns associated with the damaged waterstop, E. Cvikel stated that a sealant will be applied to concrete once it is placed in the vicinity of the waterstop. This sealant will effectively serve the purpose that the waterstop was designed for. Based on this response the Assessment Team concludes that corrosion protection and waterproofing of the BWSTs is satisfactory. (CLOSES ITEM 84-23)

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

Held at Midland Site
Midland, Michigan
May 3, 1984

Present For:

Consumers Power
G. Murray

Bechtel
J. Fisher
J. Kelleher
E. Cvikl

MPQAD
J. McMaster
R. Sevo

Stone & Webster
D. Zito

Parsons-Brinckerhoff
B. Metros

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 85-21 - Auxiliary Building Underpinning Activities

Excavation of the W5 pier shaft and placement of the concrete mudmat was completed. Excavation of the E/W5 pier bells commenced.

Drop pit excavation at the reactor containment for the W5 grillage support columns was completed.

Excavation of the finger drift to pier Kc8 has started.

Installation of reinforcing steel is in progress for the E17 pier.

Pier CT 1 was rejaacked for load verification. (INFORMATION ITEM)

Item 85-22 - SWPS Underpinning Activities

J. Fisher reported that revisions to the method of shimming the interface between the wales and the soldier piles is presently being reviewed. A revised design consisting of full penetration weld connections to a leveling plate spanning the interface between the wales and piles is being considered. (INFORMATION ITEM)

Item 85-23 - BWST Concrete

The first concrete placement for the Unit 1 BWST ring beam addition was completed. (INFORMATION ITEM)

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

Held at Midland Site
Midland, Michigan
May 3, 1984

Item 85-24 - Upper Leveling Plates

B. Metros reported that he had reviewed the Bechtel Field Engineers' report on the welding demonstration on plate warpage. Mr. Metros stated that end restraining the plates during cooldown and the use of a smaller continuous weld may not effectively reduce warpage. The use of several shorter welds may be effective in controlling warpage. (Item 79-26 remains OPEN) (OPINION ITEM)

New Items

Item 85-25 - Weekly Report #84

The text of Weekly Report #84 was reviewed. It was determined that all open items had been previously identified. It was clarified in the meeting that the portion of the report text describing over excavation at pier W17 which required grouting was a result of material sloughing and not workmanship. (INFORMATION ITEM)

Response Items

No response items were addressed.

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

Held at Midland Site
Midland, Michigan
May 4, 1984

Present For:

Consumers Power
None

Bechtel
J. Fisher
J. Kelleher
E. Cvikl
M. Blendy

MPQAD
J. McMaster
R. Sevo

Stone & Webster
W. Kilker
L. Rouen
D. Benvie

Parsons Brinckerhoff
B. Metros

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 85-26 - Auxiliary Building Underpinning Activities

Pier CT 12 was rejaacked for load verification.

Installation of bell bracing is in progress for pier W5.

The concrete mudmat at founding grade for the E17 middle pier was placed.
(INFORMATION ITEM)

Item 85-27 - Trend Analysis

J. McMaster discussed MPQAD's plans regarding NCR trending. The present manual system for trend analysis of NCRs will remain in effect. To complement the present trending, an in-house tracking system which MPQAD has used on an informal basis for the past few months will be instituted as a monthly activity to identify development of NCR trends associated with all remedial soils activities. This tracking activity will evaluate the number of NCRs per number of inspection reports vs time for a specific construction activity (i.e., excavation, grouting, expansion anchors, welding associated with fabrication, welding associated with erection, etc.). The first monthly report presenting the results of the NCR tracking activity will be issued in mid-May. The Assessment Team will review the report when it is issued. (Item 64-10 remains OPEN)
(INFORMATION ITEM)

Item 85-28 - SWPS Backpacking Method

B. Metros discussed backpacking in-process on the east side of the SWPS. He stated that additional effort is needed in tamping the backpacking to enhance it's effectiveness. (Item 79-34 remains OPEN) (OPINION ITEM)

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

Held at Midland Site
Midland, Michigan
May 4, 1984

New Items

Item 85-29 - Auxiliary Building Access Shaft Grout Shims

D. Benvie discussed the use of grout shims at the interface of the wales and a few of the piers in the auxiliary building access shafts. It was noted that concern had previously been raised over the use of grout shims for the lateral support system at the SWPS. He asked if there was a concern with the use of similar grout shims for the access shaft lateral support system. J. Fisher will respond. (OPEN ITEM)

Item 85-30 - Pier W17 Alternate Design

J. Fisher reported that the alternate pier design used for pier E17 will be implemented for pier W17. Soil conditions dictated that the alternate design which consists of an enlarged straight shafted pier be used in place of a belled pier. (INFORMATION ITEM)

Response Items

No response items were addressed.