



Donald B Miller, Jr  
Site Manager  
Midland Project

Midland Project: PO Box 1963, Midland, MI 48640 • (517) 631-8650

March 29, 1983

Mr. W. D. Shafer, Chief  
Midland Project Section  
U.S. Nuclear Regulatory Commission  
Region III  
799 Roosevelt Road  
Glen Ellyn, IL 60137

PRINCIPAL STAFF			
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MIDLAND PROJECT GWO 7020  
REMEDIAL SOILS WORK AUTHORIZATION  
File: 0485.16    UFI: 42\*05\*22\*04    Serial: CSC-6622  
12\*32

We are enclosing the proposed list of work in accordance with the "NRC and CPCo Work Authorization Procedure" for the period between April 1, 1983 and April 30, 1983. Please review this work list and authorize the specific work items as established in the procedure.

Also enclosed is a Supplemental Work Activity List for May 1983. Your review, comments and authorization of the specific work items as in accordance with the procedure are similarly requested.

We have completed our review of the documents associated with the following activities. Based on our review, we ask for your approval of these activities:

- 105050908 - Perform Pier Load Test (Pier 11W)
- 202550100 - Install Deep Seated Bench Marks (SWPS)
- 207050605 - SWPS Dewatering - Install Remaining Ejector Wells
- 207050600 - Install Piezometers (Full Release)
- 207050635 - SWPS Dewatering - Install Dewatering Discharge System

*For*   
D. B. Miller, Jr.  
Site Manager

DBM/GBJ/lrb

Attachments

8304070174 830329  
PDR ADOCK 05000329  
A PDR

APR 4 1983

IED1

Consumers Power Company  
Midland Plant Units 1 & 2

Attachment to Serial CSC-6622

WORK ACTIVITY LIST FOR THE PERIOD BETWEEN APRIL 1, 1983 AND APRIL 30, 1983  
DEVELOPED IN COMPLIANCE WITH ASLB ORDER OF APRIL 30, 1982

NEW OR REVISED ITEMS	ACTIVITY IDENTIFIER	PROGRAM, WORK AREA & ACTIVITY	PREVIOUS REGION III DESIGNATION
		<u>GENERAL</u>	
		<u>QUALITY PROGRAM</u>	
	102351100	Approval of MPQP-2, Rev 1	A(10/22/82)
	102351115	Approval of MPQP-1, Rev 5	3 (1/11/83) A (1/11/83)
		<u>AUXILIARY BUILDING &amp; FIVP UNDERPINNING PROGRAM</u>	
		<u>ACCESS SHAFTS</u>	
	105050906	Redress the slope lay back surfaces	A (3/17/83)
		<u>WEST FIVP</u>	
	102150010	Install Anchor Bolts & Rods (includes hardness test on rods, drill concrete & steel and tensioning)	1 (8/12/82) A (8/13/82)
		<u>EAST FIVP</u>	
	112150010	Install Anchor Bolts & Rods (includes hardness tests on rods, drill concrete & steel, and tension)	1 (8/12/82) A(8/13/82)
		<u>CONTROL TOWER POST TENSION VERIFICATION</u>	
	102550203	Verify Post Tension Loads	A(2/22/83)

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NEW OR REVISED ITEMS	ACTIVITY IDENTIFIER	PROGRAM, WORK AREA & ACTIVITY	PREVIOUS REGION III DESIGNATION
	162550010	<u>WEST TURBINE/AUX BUILDING PIPE TURNNEL MODIFICATION</u> Install Platform at El 600' ( includes installation of Pipe Tunnel Reinforcement, cutting of opening, Modification of Handrails and Ladder and Protection of Existing Piping)	
	152550010	<u>EAST TURBINE/AUX BUILDING PIPE TUNNEL MODIFICATION</u> Install Platform at El 600' ( includes installation of Pipe Tunnel Reinforcement. cutting of opening, Modification of Handrails and Ladder and Protection of Existing Piping)	
		<u>BUILDING MONITORING</u>	
	136050043	Maintain Instrument System	3 (8/12/82) A(8/12/82)
	132550050	Install, wire conduit and raceway from pier to data room for Pier Instrumentation	2(12/13/82) A(12/13/82)
	165052021	Terminate Cables in Data Room & Terminal Boxes & Pier Instrumentation	A(3/10/83)
		<u>GENERAL TEMPORARY DEWATERING</u>	
	125150050	Continue Monitoring Utility Protection Pits (4)	3 (8/12/82) A(8/12/82)
	115150020	Continue Operation of Freeze System & Wells	3 (8/12/82) A(8/12/82)
*	522550025	Excavate, Repair and Backfill Piezometer MP-2	
*	522550020	Repair Six (6) Existing Observation Wells (WB-1, WP-2, COE-10, PD-18, W-2, PD-38)	
	125150051	Install Clay to Below Duct Bank (pit 4)	1 (8/12/82)

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NEW OR REVISED ITEMS	ACTIVITY IDENTIFIER	PROGRAM, WORK AREA & ACTIVITY	PREVIOUS REGION III DESIGNATION
	125150052	Repair Ductbank (Pit 4) (includes excavate, drift, repair and backfill)	1 (8/25/82)
	115150026	Remove 36" Casing and Backfill 42" Hole	1 (9/17/82)
		<u>CRACK MAPPING</u> (includes scaffolding platforms, ladders and extra-ordinary clean up)	
	102250200	EPA (East & West)	3 (8/12/82) A(8/12/82)
	102250105	FIVP (East & West)	3 (8/12/82) A(8/12/82)
	102250100	Control Tower & Remainder of Aux Bldg	3 (8/12/82) A(8/12/82)
	165054010	<u>PIER 12W</u> Install & Load Pier 12W <sup>3</sup>	1 (8/12/82) A(12/9/82)
	165052027	<u>PIER 11W</u> Drift from Access Shaft to Pier 11W <sup>1</sup> (includes access pit)	1 (8/25/82) A(2/22/83)
	165053015	Excavate Pier 11W <sup>2</sup>	1 (8/25/82) A(2/22/83)
	165054015	Install & Load Pier 11W <sup>3</sup> (includes install bituminous plywood forms)	1 (8/25/82) A(2/22/83)
	105050908	Perform Pier Load Test	1 (8/25/82)
	165054005	<u>PIER 9W</u> Install & Load Pier 9W <sup>3</sup>	1 (9/17/82) A(2/24/83)

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NEW OR REVISED ITEMS	ACTIVITY IDENTIFIER	PROGRAM, WORK AREA & ACTIVITY	PREVIOUS REGION III DESIGNATION
	155054010	<u>PIER 12E</u> Install & Load Pier 12E <sup>3</sup>	1 (8/12/82) A(12/9/82)
	155052027	<u>PIER 11E</u> Drift from Access Shaft to Pier 11E <sup>1</sup> (includes access pit)	1 (8/25/82) A(2/22/83)
	155053015	Excavate Pier 11E <sup>2</sup>	1 (8/25/82) A(2/22/83)
	155054015	Install & Load Pier 11E <sup>3</sup>	1 (8/25/82) A(2/22/83)
	155054005	<u>PIER 9E</u> Install & Load Pier 9E <sup>3</sup>	1 (9/17/82) A(2/24/83)
	155052025	<u>PIER 8E</u> Drift from Pier 9E to Pier 8E <sup>1</sup>	1 (9/17/82)
	155053020	Excavate Pier 8E <sup>2</sup>	1 (9/17/82)
	155054020	Install & Load Pier 8E <sup>3</sup>	1 (9/17/82)
	155052305	<u>GRILLAGE STRUCTURE AT PIER 8E</u> Drift for and Install Bulkhead from Pier 8E north to Containment Wall <sup>1</sup>	1 (9/17/82)
	155059025	Excavate and Remove Mudslab for Grillage Beams Between Pier 8E and Containment <sup>1</sup>	1 (9/17/82)
	155053025	Excavate for Support Columns next to Containment <sup>2</sup>	1 (9/17/82)
	155055003	Install Steel Support Columns next to Containment	1 (9/17/82)
	155055010	Install & Load Grillage Structure at Pier 8E	1 (9/17/82)

Consumers Power Company  
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NEW OR REVISED ITEMS	ACTIVITY IDENTIFIER	PROGRAM, WORK AREA & ACTIVITY	PREVIOUS REGION III DESIGNATION
		<u>PIER 8W</u>	
	165052025	Drift from Pier 9W to Pier 8W <sup>1</sup>	1 (9/17/82)
	165053020	Excavate Pier 8W <sup>2</sup>	1 (9/17/82)
	165054020	Install & Load Pier 8W <sup>3</sup>	1 (9/17/82)
		<u>GRILLAGE STRUCTURE AT PIER 8W</u>	
	165052305	Drift for and Install Bulkhead from Pier 8W north to Containment Wall <sup>1</sup>	1 (9/17/82)
	165059025	Excavate and Remove Mudslab for Grillage Beams Between Pier 8W and Containment <sup>1</sup>	1 (9/17/82)
	165053025	Excavate for Support Columns next to Containment <sup>2</sup>	1 (9/17/82)
	165055003	Install Steel Support Columns next to Containment	1 (9/17/82)
	165055010	Install & Load Grillage Structure at Pier 8W	1 (9/17/82)
		<u>PIER KC2</u>	
	165052325	Drift from West Access Shaft to Pier KC2 <sup>1</sup>	1 (9/17/82)
		<u>PIER KC11</u>	
	155052325	Drift from East Access Shaft to Pier KC11 <sup>1</sup>	1 (9/17/82)
		<u>EXCAVATION ZONES</u>	
*	155052020	Excavate/Lag Zone Y1	
*	165052020	Excavate/Lag Zone Z1	



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NEW OR REVISED ITEMS	ACTIVITY IDENTIFIER	PROGRAM, WORK AREA & ACTIVITY	PREVIOUS REGION III DESIGNATION
		<u>RESHORE PIERS</u>	
*	155052050	Reshore E9, E11, E12 and Install E10 Bulkhead <sup>4</sup>	
*	165052050	Reshore W9, W11, W12 and Install W10 Bulkhead <sup>5</sup>	
	165053035	<u>PIER W10</u> Excavate Pier 10W <sup>2</sup>	1 (9/17/82)
*	165054030	Install & Load Pier 10W <sup>3</sup>	
	155053035	<u>PIER E10</u> Excavate Pier 10E <sup>2</sup>	1 (9/17/82)
*	155054030	Install & Load Pier 10E <sup>3</sup>	
		<u>BEAM CONNECTIONS</u>	
	102250201	Modify Beam Connections at elev 646 ( 1 connection)	1 (9/17/82)
	102250203	Modify Beam Connections at elev 659 ( 2 connections)	2(12/13/82)
	102250205	Modify Beam Connections at elev 704 (10 connections)	2(12/13/82)
*	102250208	<u>E1 569 SLAB FIX</u> Survey/Layout for Lngineering Review in Preparation for Slab Fix @ E1 659	
		<u>SERVICE WATER PUMP STRUCTURE UNDERPINNING PROGRAM</u>	
	202555170	<u>POST TENSIONING SYSTEM</u> Post Tensioning Tendon inspection & maintenance	3 (12/7/82) A(12/7/82)
	207050618	<u>DEWATERING</u> Install 6 Preliminary Ejector Wells	A(3/10/83)

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NEW OR REVISED ITEMS	ACTIVITY IDENTIFIER	PROGRAM, WORK AREA & ACTIVITY	PREVIOUS REGION III DESIGNATION
**	207050605	Install Remaining Ejector Wells	R
	207050385	Core Drill SWPS Slab for Ejector Wells	A (3/17/83)
	207050386	Core Drill CWIS Slab for Ejector Wells	1 (11/1/82) A (3/17/83)
	207050603	Probe for Shallow Utilities	3(12/29/83) A(12/29/82)
**	207050604	Probe for Deep Utilities Within El 610 Excavation Limits (Ref Dwg C-2031)	1 (9/17/82) A(3/10/83)
*	207050748	Probe for Deep Utilities Outside El 610 Excavation Limits (Ref Dwg C-2031)	
	207050600	Install Piezometers	R
	207050645	Install Seal Between SWPS & CWIS	1 (8/25/82) A(2/22/83)
	207050635	Install Dewatering Discharge System (including headers, tank, pumps and electrical)	2 (9/17/82)
	207050387	Convert 7 Wells used on 72" pipe repair to support SWPS dewatering. (Includes install new ejectors, temporary headers, operate, & maintain)	1 (11/1/82) A(2/11/83)
		<u>BUILDING MONITORING</u>	
	202550100	Install Deep Seated Bench Marks	1 (8/12/82)
	206050105	Crack Map SWPS	1 (9/17/82) A(3/10/83)
	202550130	Installation of Extensometer Anchors	



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NEW OR REVISED ITEMS	ACTIVITY IDENTIFIER	PROGRAM, WORK AREA & ACTIVITY	PREVIOUS REGION III DESIGNATION
	202550120	Installation of Extensometer Covers	
	206050100	Install Extensometers	1 (9/17/82)
**	206050106	Install Instruments and Terminate Instrument Cables (Includes testing & calibration)	1 (9/17/82)
	206050102	Install Brackets	1 (9/17/82)
	207550100	Rebar Mapping & Core Drilling for Conduit & Raceway	A(3/10/83)
	207550103	Install Conduit & Raceway	1 (9/17/82) A(2/22/83)
	202550104	Install cable and terminate at Data Acquisition Room	1 (9/17/82)
**	206050101	Install Permanent Benchmark Covers	1 (9/17/82)
	206050104	Baseline, Operate, and Maintain Instrument System	R
		<u>ACCESS SHAFT &amp; OPEN CUT EXCAVATION</u>	
	207050335	Install Soldier Piles	1 (8/12/82)
	202550162	Relocate Fire Protection Pipeline	1 (8/12/82) A (9/17/82)
*	207050400	Repair SWPS Duct Bank	
		<u>BORATED WATER STORAGE TANK FOUNDATION &amp; TANK REPAIR PROGRAM</u>	
		<u>UNIT 1 TANK</u>	
	312150111	Rebar Mapping	3 (8/25/82) A (8/25/82)
	312150005	Drill and Grout Shear Connectors	2(12/13/82)

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NEW OR REVISED ITEMS	ACTIVITY IDENTIFIER	PROGRAM, WORK AREA & ACTIVITY	PREVIOUS REGION III DESIGNATION
	312150011	Construct New Ring Beam (set forms & place rebar, pour concrete)	1 (8/12/82)
	312150211	Strip Waterproof Membrane on Valve Pit	3 (8/25/82) A (8/25/82)
	312550019	Reinstall Electrical Ductbank	2 (9/17/82)
	312550018	Reinstall Piping, Pipe Hangers and Electrical Facilities	A (3/17/83)
	322150111	<u>UNIT 2 TANK</u> Rebar Mapping	3 (8/25/82) A (8/25/82)
	322150005	Drill and Grout Shear Connectors	2(12/13/82)
	322150011	Construct New Ring Beam (set forms & place rebar, pour concrete)	1 (8/12/82)
	322150211	Strip Waterproof Membrane on Valve Pit	3 (8/25/82) A (8/25/82)
	322550019	Reinstall Electrical Duct Bank	2 (9/17/82)
	322550018	Reinstall Piping, Pipe Hangers and Electrical Facilities	A (3/17/83)
	<u>UNDERGROUND PIPE REPLACEMENT, REBEDDING, AND MONITORING PROGRAM</u>		
	202550500	<u>TRAIN A &amp; B OF SERVICE WATER PIPE REPLACEMENT</u> Excavate Existing Pipe	1 (8/12/82)
	202550510	Remove Existing Pipe	1 (8/25/82)
	202550520	Install new pipe & expansion coupling	1 (8/25/82)

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NEW OR REVISED ITEMS	ACTIVITY IDENTIFIER	PROGRAM, WORK AREA & ACTIVITY	PREVIOUS REGION III DESIGNATION
	402550515	Hydro Test new pipe	R
	402550507	Perform Profiling & Ovality Check on New Piping	R
*	402550525	Temporary Backfill New Pipe	
		<u>PERMANENT INTRUSION DETECTION SYSTEM</u>	
	732050002	Install Wire (incl conduit)	3 (8/25/82) A(8/25/82)
	732050003	Install Fence (incl fence posts & concrete strip	3 (8/25/82) A(8/25/82)
	732050004	Install Grounding	3 (9/17/82) A(9/17/82)
		<u>OBS-4 Repair</u>	
	522550018	Dutch Cone Soil Testing in Vicinity of OBS-4 for exploratory purposes	2(12/13/82)
		<u>Acid-Caustic Unloading Station</u>	
	822550001	Excavate for install and backfill drainline and slab for Acid-caustic unloading station at East end of Turbine Building	1(11/1/82)
		<u>EMERGENCY PERSONNEL LOCKS - UNIT 2</u>	
	792550005	Excavate for, Install and Backfill Concrete Airlock Structure	1 (9/17/82)
		<u>PERMANENT DEWATERING PROGRAM</u>	
*	522550015	Install Guard Posts for Protection of Well J-1	

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NEW OR REVISED ITEMS	ACTIVITY IDENTIFIER	PROGRAM, WORK AREA & ACTIVITY	PREVIOUS REGION III DESIGNATION
*	133150010	<u>YARD PERMANENT DEEPSEATED BENCHMARKS</u> Yard-Install Permanent Deepseated Benchmarks (PBM-4 and PBM-5)	

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SUPPLEMENTAL WORK ACTIVITY LIST FOR THE PERIOD BETWEEN MAY 1, 1983 AND MAY 31, 1983  
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NEW OR REVISED ITEMS	ACTIVITY IDENTIFIER	PROGRAM, WORK AREA & ACTIVITY	PREVIOUS REGION III DESIGNATION
<u>AUXILIARY BUILDING &amp; FIVP UNDERPINNING PROGRAM</u>			
<u>PIER KC 2</u>			
	165053320	Excavate Pier KC 2 <sup>2</sup>	1 (9/17/82)
	165054315	Install & Load Pier KC 2 <sup>3</sup>	1 (9/17/82)
<u>PIER KC 11</u>			
	155053320	Excavate Pier KC 11 <sup>2</sup>	1 (9/17/82)
	155054315	Install & Load Pier KC 11 <sup>3</sup>	1 (9/17/82)
<u>PIER W16</u>			
*	165052055	Drift from West Access Shaft to Pier W16 <sup>1</sup> (includes Access Pit)	
*	165052055	Excavate Pier W16 <sup>2</sup>	
<u>PIER E16</u>			
*	155052055	Drift from East Access Shaft to Pier E16 <sup>1</sup>	
*	155053037	Excavate Pier E16 <sup>2</sup>	
<u>PIER KC 3</u>			
*	165052310	Drift to KC <sup>3</sup> from W8 <sup>1</sup>	
*	165053310	Excavate Pier KC 3 <sup>2</sup>	

SUPPLEMENTAL WORK ACTIVITY LIST FOR THE PERIOD BETWEEN MAY 1, 1983 AND MAY 31, 1983  
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NEW OR REVISED ITEMS	ACTIVITY IDENTIFIER	PROGRAM, WORK AREA & ACTIVITY	PREVIOUS REGION III DESIGNATION
*	165054305	Install & Load KC 3 <sup>3</sup>  <u>PIER KC 10</u>	
*	155052310	Drift to KC 10 from E8 <sup>1</sup>	
*	155053310	Excavate Pier KC 10 <sup>2</sup>	
*	155054305	Install & Load KC 10 <sup>3</sup>  <u>EXCAVATION ZONES</u>	
*	165056375	Excavate/Lag Zone Z2	
*	155056375	Excavate/Lag Zone Y2  <u>PIER W14</u>	
*	165052057	Drift from West Access Shaft to Pier W14 <sup>1</sup> (includes Access Pit)	
*	165053055	Excavate Pier W14 <sup>2</sup>	
*	165054050	Install & Load Pier W14 <sup>3</sup>  <u>PIER E14</u>	
*	155052057	Drift from East Access Shaft to Pier E14 <sup>1</sup> (includes Access Pit)	
*	155053055	Excavate Pier E14 <sup>2</sup>	



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NEW OR REVISED ITEMS	ACTIVITY IDENTIFIER	PROGRAM, WORK AREA & ACTIVITY	PREVIOUS REGION III DESIGNATION
*	155054050	Install & Load Pier E14 <sup>3</sup> <u>SUPPORT BRACKET</u>	
*	152555010	Install Temporary Support Bracket at E1	
*	162555010	Install Temporary Support Bracket at W1	
		<u>SERVICE WATER PUMP STRUCTURE PROGRAM</u>	
		<u>EXCAVATION</u>	
*	207050780	Excavate East & North Wall of Access Shaft <u>DEWATERING SYSTEM</u>	
	207050620	Activate, Operate and Maintain Dewatering System	1 (9/17/82)
		<u>PERMANENT DEWATERING</u>	
*	522550015	Excavate Headers & Metering Pits, Install Header and Level Monitoring System, Install Pumps, Timers and Backfill	
		<u>BORATED WATER STORAGE TANK FOUNDATION AND TANK REPAIR PROGRAM</u>	
	312550100	Install Instruments (includes testing and calibration)	1 (11/1/82)
	322550100	Install Instruments (includes testing and calibration)	1 (11/1/82)

## NOTES

A single asterisk (\*) in left hand column indicates the work activity is a new item.

A double asterisk (\*\*) in left hand column indicates the work activity description has been revised.

Designation 1 in the right hand column indicates additional information is required by NRC Region III on this critical activity.

Designation 2 in the right hand column indicates no additional information is required by NRC Region III on this critical activity.

Designation 3 in the right hand column indicates that the activity is not critical and work can proceed.

The date shown after the designation corresponds to the date of the NRC letter that provided the designation.

An "A" following the designation indicates that Region III has provided approval to proceed with the activity. The date following the "A" corresponds with the date of the NRC letter that provides authorization to proceed with the work activity.

A "R" in the right hand column indicates that previous designation or approval has been recinded because of a significant revision to the work activity or 90 days has elapsed or is expected to elapse since the work was authorized without the work being initiated.

## FOOTNOTES

- <sup>1</sup> Drift Activity normally includes
  1. fabricate steel sets
  2. excavate
  3. install steel sets (Hilti bolts as necessary)
  4. remove concrete (as necessary)
  5. localized dewatering (as necessary)
  6. install wood lagging
  7. place mudmat
  8. stabilize soil (as necessary)
  9. brace and/or rebrace
- <sup>2</sup> Excavate Pier activity normally includes
  1. excavate
  2. concrete removal (as necessary)
  3. dewatering (as necessary)
  4. fabricate steel lagging
  5. install steel lagging
  6. auger bottom of pit to determine hydrostatic water pressure & plug (piers 10 & 12 E&W)
  7. place mudmat
  8. stabilize soil (as necessary)
- <sup>3</sup> Install & load Pier activity normally includes
  1. fab & install embeds
  2. fab & install reinforcing steel
  3. install telltales
  4. install Carlson meters (pier 11 E&W)
  5. place concrete
  6. fab & install leveling & bearing plates, jackstands
  7. install jacks
  8. transfer load.
  - \*9. monitor and adjust pier jacks after load transfer
- <sup>4</sup> This number was previously associated with Excavate Access for Pier 10E which has been deleted from our list.
- <sup>5</sup> This number was previously associated with Excavate Access for Pier 10W which has been deleted from our list.