



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

February 10, 1983

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

MIDLAND PROJECT GWO 7020
REMEDIAL SOILS WORK AUTHORIZATION
File: 0485.16 UFI: 42*05*22*04 Serial: CSC-6545
12*32

We are enclosing the proposed list of work in accordance with the "NRC and CPCo Work Authorization Procedure" for the period between February 14, 1983 and March 31, 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 April 1983. Your review, comments and authorization of the specific work items as in accordance with the procedure is similarly requested.

In addition to our requests for authorization delineated in our Serial CSC-6544 dated February 9, 1983 and Serial CSC-6537 dated February 4, 1983, we have also completed our review of the documents associated with the following activities. Based on our review, we ask for your approval of these activities:

- 207050605 - SWPS Dewatering - Install Ejector Wells
- 207050385 - SWPS Dewatering - Core Drill SWPS Slab for Ejector Wells
- 207050386 - SWPS Dewatering - Core Drill CWIS Slab for Ejector Wells
- 207050604 - SWPS Dewatering - Probe for Deep Utilities
- 207050600 - SWPS Dewatering - Install Piezometers
- 207050645 - SWPS Dewatering - Install Seal Between SWPS and CWIS
- 207050635 - SWPS Dewatering - Install Dewatering Discharge System
- 207050387 - SWPS Dewatering - Convert 7 Wells used on 72" Pipe Repair to Support SWPS Dewatering

HB Miller Jr.
D. B. Miller, Jr.
Site Manager

DBM/GBJ/lrb

Attachments

8302250245 830210
PDR ADOCK 05000329
A PDR

FEB 22 1983

IE01

WORK ACTIVITY LIST FOR THE PERIOD BETWEEN FEBRUARY 14, 1983 AND MARCH 31, 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>	
	102351110	Approval of MPQP-1, Rev 4	A(10/22/82)
	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 & FIVP UNDERPINNING PROGRAM</u>			
<u>ACCESS SHAFTS</u>			
	105050906	Redress the slope lay back surfaces	3(12/13/82) A(12/13/82)
<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)
	102150017	Proofload Jacking (four point jacking test)	2(12/13/82) A (1/27/83)
<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)
	112150017	Proofload Jacking (four point jacking test)	2(12/13/82) A (1/27/83)

Consumers Power Company
Midland Plant Units 1 & 2

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NEW OR REVISED ITEMS	ACTIVITY IDENTIFIER	PROGRAM, WORK AREA & ACTIVITY	PREVIOUS REGION III DESIGNATION
		<u>CONTROL TOWER POST TENSION VERIFICATION</u>	
	102550203	Verify Post Tension Loads	R
		<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)
		<u>GENERAL TEMPORARY DEWATERING</u>	
	125150000	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)
	125150051	Install Clay to Below Duct Bank (pit 4)	1 (8/12/82)
		<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)
		<u>PIER 12W</u>	
	165052015	Drift from Access Shaft to Pier 12W ¹	1 (8/12/82) A(12/9/82)
	165053010	Excavate Pier 12W ²	1 (8/12/82) A(12/9/82)

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NEW OR REVISED ITEMS	ACTIVITY IDENTIFIER	PROGRAM, WORK AREA & ACTIVITY	PREVIOUS REGION III DESIGNATION
	165054010	Install & Load Pier 12W ³	1 (8/12/82) A(12/9/82)
**	165052027	<u>PIER 11W</u> Drift from Access Shaft to Pier 11W ¹ (includes access pit)	1 (8/25/82)
	165053015	Excavate Pier 11W ²	1 (8/25/82)
	165054015	Install & Load Pier 11W ³ (includes install bituminous plywood forms)	1 (8/25/82)
	105050908	Perform Pier Load Test	1 (8/25/82)
**	165052010	<u>PIER 9W</u> Drift from Access Shaft Under FIVP to Pier 9W ¹ (includes access pit)	1 (8/12/82)
	165053005	Excavate Pier 9W ²	1 (9/17/82)
	165054005	Install & Load Pier 9W ³	1 (9/17/82)
	155052015	<u>PIER 12E</u> Drift from Access Shaft to Pier 12E ¹	1 (8/12/82) A(12/9/82)
	155053010	Excavate Pier 12E ²	1 (8/12/82) A(12/9/82)
	155054010	Install & Load Pier 12E ³	1 (8/12/82) A(12/9/82)
**	155052027	<u>PIER 11E</u> Drift from Access Shaft to Pier 11E ¹ (includes access pit)	1 (8/25/82)
	155053015	Excavate Pier 11E ²	1 (8/25/82)
	155054015	Install & Load Pier 11E ³	1 (8/25/82)

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NEW OR REVISED ITEMS	ACTIVITY IDENTIFIER	PROGRAM, WORK AREA & ACTIVITY	PREVIOUS REGION III DESIGNATION
**	155052010	<u>PIER 9E</u> Drift from Access Shaft Under FIVP to Pier 9E ¹ (includes access pit)	1 (8/12/82)
	155053005	Excavate Pier 9E ²	1 (9/17/82)
	155054005	Install & Load Pier 9E ³	1 (9/17/82)
		<u>MONITOR & ADJUST PIER JACKS</u>	
	105050105	Monitor & Adjust Pier Jacks after Load Transfer	
		<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)
		<u>SERVICE WATER PUMP STRUCTURE UNDERPINNING PROGRAM</u>	
		<u>POST TENSIONING SYSTEM</u>	
	202555170	Post Tensioning Tendon inspection & maintenance	3 (12/7/82) A(12/7/82)
		<u>DEWATERING</u>	
	207050605	Install Ejector Wells	R
	207050385	Core Drill SWPS Slab for Ejector Wells	R
	207050386	Core Drill CWIS Slab for Ejector Wells	1 (11/1/82)
	207050603	Probe for Shallow Utilities	3(12/29/83) A(12/29/82)

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NEW OR REVISED ITEMS	ACTIVITY IDENTIFIER	PROGRAM, WORK AREA & ACTIVITY	PREVIOUS REGION III DESIGNATION
	207050604	Probe for Deep Utilities	1 (9/17/82)
	207050600	Install Piezometers	R
	207050645	Install Seal Between SWPS & CWIS	1 (8/25/82)
	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)
		<u>BUILDING MONITORING</u>	
	202550100	Install Deep Seated Bench Marks	1 (8/12/82)
	206050105	Crack Map SWPS	1 (9/17/82)
*	202550130	Installation of Extensometer Anchors	
*	202550120	Installation of Extensometer Covers	
	206050100	Install Extensometers	1 (9/17/82)
	206050106	Install Instruments (Includes testing & calibration)	1 (9/17/82)
	206050102	Install Brackets	1 (9/17/82)
	207550100	Rebar Mapping & Core Drilling for Conduit & Raceway	
	207550103	Install Conduit & Raceway	1 (9/17/82)

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NEW OR REVISED ITEMS	ACTIVITY IDENTIFIER	PROGRAM, WORK AREA & ACTIVITY	PREVIOUS REGION III DESIGNATION
**	202550104	Install cable and terminate at Data Acquisition Room	1 (9/17/82)
	206050101	Install Instrument Covers	1 (9/17/82)
	206050104	Baseline, Operate, and Maintain Instrument System	R
		<u>ACCESS SHAFT & 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)
		<u>BORATED WATER STORAGE TANK FOUNDATION & 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)
	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)
	312550027	Shallow probing to locate Electrical Ductbank	3 (1/31/83) A (1/31/83)
	312550019	Reinstall Electrical Ductbank	2 (9/17/82)
	312550018	Reinstall Piping, Pipe Hangers and Electrical Facilities	R

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NEW OR REVISED ITEMS	ACTIVITY IDENTIFIER	PROGRAM, WORK AREA & ACTIVITY	PREVIOUS REGION III DESIGNATION
		<u>UNIT 2 TANK</u>	
	322150111	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)
	322550027	Shallow probing to locate Electrical Ductbank	3 (1/31/83) A (1/31/83)
	322550019	Reinstall Electrical Duct Bank	2 (9/17/82)
	322550018	Reinstall Piping, Pipe Hangers and Electrical Facilities	R
		<u>UNDERGROUND PIPE REPLACEMENT, REBEDDING, AND MONITORING PROGRAM</u>	
		<u>TRAIN A & B OF SERVICE WATER PIPE REPLACEMENT</u>	
	202550500	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)
	402550515	Hydro Test new pipe	R
	402550507	Perform Profiling & Ovality Check on New Piping	R

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NEW OR REVISED ITEMS	ACTIVITY IDENTIFIER	PROGRAM, WORK AREA & ACTIVITY	PREVIOUS REGION III DESIGNATION
		<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)

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SUPPLEMENTAL 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>AUXILIARY BUILDING & FIVP UNDERPINNING PROGRAM</u>			
		<u>PIER 8W</u>	
165052025		Drift from Pier 9W to Pier 8W ¹	1 (9/17/82)
165053020		Excavate Pier 8W ²	1 (9/17/82)
		<u>GRILLAGE STRUCTURE AT PIER 8W</u>	
165052305		Drift for and Install Bulkhead from Pier 8W north to Containment Wall ¹	1 (9/17/82)
		<u>PIER Kc 2</u>	
165052325		Drift from West Access Shaft to Pier Kc 2 ¹	1 (9/17/82)
165053320		Excavate Pier Kc 2 ²	1 (9/17/82)
165054315		Install & Load Pier Kc 2 ³	1 (9/17/82)
		<u>PIER 10W</u>	
165052050		Excavate Access to Pier 10W ¹	1 (9/17/82)
165053035		Excavate Pier 10W ²	1 (9/17/82)
		<u>PIER 8E</u>	
155052025		Drift from Pier 9E to Pier 8E ¹	1 (9/17/82)
155053020		Excavate Pier 8E ²	1 (9/17/82)
		<u>GRILLAGE STRUCTURE AT PIER 8E</u>	
155052305		Drift for and Install Bulkhead from Pier 8E north to Ccntainment Wall ¹	1 (9/17/82)

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SUPPLEMENTAL WORK ACTIVITY LIST FOR THE PERIOD BETWEEN APRIL 1, 1983 AND APRIL 30, 1983
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NEW OR REVISED ITEMS	ACTIVITY IDENTIFIER	PROGRAM, WORK AREA & ACTIVITY	PREVIOUS REGION III DESIGNATION
		<u>PIER Kc 11</u>	
	155052325	Drift from East Access Shaft to Pier Kc 11 ¹	1 (9/17/82)
	155053320	Excavate Pier Kc 11 ²	1 (9/17/82)
		<u>PIER 10E</u>	
	155052050	Excavate Access for Pier 10E ¹	1 (9/17/82)
	155053035	Excavate Pier 10E ²	1 (9/17/82)
		<u>SERVICE WATER PUMP STRUCTURE UNDERPINNING PROGRAM</u>	
		<u>DEWATERING</u>	
	207050620	Activate, Operate and Maintain Dewatering System	1 (9/17/82)
		<u>BORATED WATER STORAGE TANK FOUNDATION & TANK REPAIR PROGRAM</u>	
		<u>UNIT 1 TANK</u>	
	312550100	Install Instruments (Includes testing and calibration)	1 (11/1/82)
		<u>UNIT 2 TANK</u>	
	322550100	Install Instruments (Includes testing and calibration)	1 (11/1/82)

FOOTNOTES

¹ 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

² 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)

³ 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.

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.