



Donald B Miller, Jr
 Site Manager
 Midland Project

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

December 22, 1982

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

PRINCIPAL STAFF		
RA		
O/PA		
A/PA	✓	07/07/83
CM/SP		
DEPROS		
DESIP		
ML		
OL	FILE	<i>[Signature]</i>

MIDLAND PROJECT GWO 7020
 REMEDIAL SOILS WORK AUTHORIZATION
 File: 0485.15 UFI: 12*32
 42*05*22*04

Serial: CSC-6467

We are enclosing the proposed list of work in accordance with the "NRC and CPCo Work Authorization Procedure" for the period between January 1, 1983 and January 31, 1983. Please review this work list and authorize the specific work items as established in the procedure.

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

For the work specified to be in progress in January, please provide the requested authorization by January 4, 1983.

[Handwritten Signature]

D. B. Miller, Jr.
 Site Manager

DEM/GBJ/lrb

Attachment

8406050106 840517
 PDR FOIA
 RICE84-96 PDR

DEC 29 1982

We would appreciate priority handling for the following activities:

- 102150017 - West FIVP - Four Point Jacking Test
- 112150017 - East FIVP - Four Point Jacking Test
- 165052010 - Pier 9W - Drift From Access Shaft Under FIVP to Pier 9W
- 165053005 - Pier 9W - Excavate Pier 9W
- 165054005 - Pier 9W - Install and Load Pier 9W
- 155052010 - Pier 9E - Drift From Access Shaft Under FIVP to Pier 9E
- 155053005 - Pier 9E - Excavate Pier 9E
- 155054005 - Pier 9E - Install and Load Pier 9E
- 102550203 - Verify Post Tension Loads
- 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
- 207050603 - SWPS Dewatering - Probe for Shallow Utilities
- 207050604 - SWPS Dewatering - Probe for Deep Utilities
- 207050600 - SWPS Dewatering - Install Piezometers
- 207050645 - SWPS Dewatering - Install Seal Between SWPS and CWIS
- 207050387 - SWPS Dewatering - Convert 7 Wells Used on 72" Pipe Repair to Support SWPS Dewatering
- 202550100 - SWPS Building Monitoring - Install Deep Seated Bench Marks
- 206050105 - Crack Map SWPS
- 207050335 - SWPS Access Shaft and Open Cut Excavating - Install Soldier Piles
- 202550163 - Remove Abandoned Fire Protection Pipeline
- 202550500 - Train A&B of Service Water Pipe Replacement - Excavate Existing Pipe
- 202550510 - Train A&B of Service Water Pipe Replacement - Remove Existing Pipe
- 202550520 - Train A&B of Service Water Pipe Replacement - Install New Pipe and Expansion Coupling
- 312150005 - BWST Unit #1 Tank - Drill and Grout Shear Connectors
- 322150005 - BWST Unit #2 Tank - Drill and Grout Shear Connectors
- 312150011 - Construct New Ring Beam Unit #1 BWST
- 322150011 - Construct New Ring Beam Unit #2 BWST

The following items have been removed from our Work Activity Lists because we now do not plan on working on them within the next 60 days (primarily because of cold weather conditions):

115150026
115150025
125150052
312150015
322150212
202550525
522150005
522550010
522550015
522550020
722050001
722050002
742050001
782550005
782550010
782550015
782550020
802550010
802550020
812550010
812550020
822550001
165052020
155052020
165054020
165059025
165053025
165055003
165055010
155054020
155059025
155053025
155055003
155055010
155054315
207053005
207054005
207053010
207054010

WORK ACTIVITY LIST FOR THE PERIOD BETWEEN JANUARY 1, 1983 AND JANUARY 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)
<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)
<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)

Consumers Power Company
Midland Plant Units 1 & 2

Attachment to Serial CSC-6467

WORK ACTIVITY LIST FOR THE PERIOD BETWEEN JANUARY 1, 1983 AND JANUARY 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
	102550203	<u>CONTROL TOWER POST TENSION VERIFICATION</u> Verify Post Tension Loads	R
	136050043	<u>BUILDING MONITORING</u> 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)
	125150050	<u>GENERAL TEMPORARY DEWATERING</u> 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)
	165052015	<u>PIER 12W</u> 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)

WORK ACTIVITY LIST FOR THE PERIOD BETWEEN JANUARY 1, 1983 AND JANUARY 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
	165054010	Install & Load Pier 12W ³	1 (8/12/82) A(12/9/82)
		<u>PIER 11W</u>	
	165052027	Drift from Access Shaft to Pier 11W ¹	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)
		<u>PIER 9W</u>	
	165052010	Drift from Access Shaft Under FIVP to Pier 9W ¹	1 (8/12/82)
	165053005	Excavate Pier 9W ²	1 (9/17/82)
	165054005	Install & Load Pier 9W ³	1 (9/17/82)
		<u>PIER 12E</u>	
	155052015	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)
		<u>PIER 11E</u>	
	155052027	Drift from Access Shaft to Pier 11E ¹	1 (8/25/82)
	155053015	Excavate Pier 11E ²	1 (8/25/82)
	155054015	Install & Load Pier 11E ³	1 (8/25/82)

WORK ACTIVITY LIST FOR THE PERIOD BETWEEN JANUARY 1, 1983 AND JANUARY 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>PIER 9E</u>	
	155052010	Drift from Access Shaft Under FIVP to Pier 9E ¹	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	R
	207050604	Probe for Deep Utilities	1 (9/17/82)

Consumers Power Company
Midland Plant Units 1 & 2

Attachment to Serial CSC-6467

WORK ACTIVITY LIST FOR THE PERIOD BETWEEN JANUARY 1, 1983 AND JANUARY 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
	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)
	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)
	202550104	Install and Terminate Cable	1 (9/17/82)
	206050101	Install Instrument Covers	1 (9/17/82)
	206050104	Baseline, Operate, and Maintain Instrument System	3 (11/1/82) A(11/1/82)

WORK ACTIVITY LIST FOR THE PERIOD BETWEEN JANUARY 1, 1983 AND JANUARY 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>ACCESS SHAFT & OPEN CUT EXCAVATION</u>	
	207050335	Install Soldier Piles	1 (8/12/82)
	207050332	Excavate for, & Install Concrete encased soldier piles	1(12/13/82)
	207056005	Excavate (including install lagging, walers, braces, utility supports and mudmats)	1 (8/25/82)
	202550162	Relocate Fire Protection Pipeline	1 (8/12/82) A(9/17/82)
	202550163	Remove Abandoned Fire Protection Pipeline	1 (11/1/82)
		<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)
	312550019	Reinstall Electrical Ductbank	2 (9/17/82)
	312550018	Reinstall Piping, Pipe Hangers and Electrical Facilities	R

WORK ACTIVITY LIST FOR THE PERIOD BETWEEN JANUARY 1, 1983 AND JANUARY 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>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)
	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	3 (11/1/82) A(11/1/82)
		<u>PERMANENT INTRUSION DETECTION SYSTEM</u>	
	732050002	Install Wire (incl conduit)	3 (8/25/82) A(8/25/82)

Consumers Power Company
Midland Plant Units 1 & 2

Attachment to Serial CSC-6467

WORK ACTIVITY LIST FOR THE PERIOD BETWEEN JANUARY 1, 1983 AND JANUARY 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
	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>CATHODIC PROTECTION</u>	
	752050001	Drill & Replace Anodes (as necessary)	1 (8/25/82)
	752050002	Drill & Install New Anodes	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>OBS-4 Repair</u>	
	522550018	Dutch Cone Soil Testing in Vicinity of OBS-4 for exploratory purposes	2(12/13/82)

SUPPLEMENTAL WORK ACTIVITY LIST FOR THE PERIOD BETWEEN FEBRUARY 1, 1983 AND FEBRUARY 28, 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>	
155052625		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 Containment Wall ¹	1 (9/17/82)

SUPPLEMENTAL WORK ACTIVITY LIST FOR THE PERIOD BETWEEN FEBRUARY 1, 1983 AND FEBRUARY 28, 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>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 rescinded 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.