



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

November 24, 1982

PRINCIPAL STAFF			
RA		DJ	
D/RA		SHF	
A/RA		SP	10/10/82
DP&RP		PAO	
DEP&OS		SLO	
DESTP			
ML			
OL		FILE	Rac

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

MIDLAND NUCLEAR COGENERATION PLANT
 REMEDIAL SOILS
 WORK AUTHORIZATION

File: 0485.16 UFI: 12*32 Serial: CSC-6437
 42*05*22*04

We are enclosing the proposed list of work in accordance with the "NRC and CCo Work Authorization Procedure" for the period between December 1, 1982 and December 31, 1982. 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 January 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 December, please provide the requested authorization by December 6, 1982.

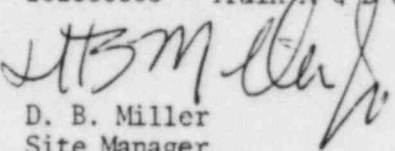
We would appreciate priority handling for the following activities:

- 102150017 - West FIVP - Four Point Jacking Test
- 112150017 - East FIVP - Four Point Jacking Test
- 102550203 - Verify Post Tension Loads
- 165052015 - Pier 12W - Drift From Access Shaft to Pier 12W
- 165053015 - Pier 12W - Excavate Pier 12W
- 165054010 - Pier 12W - Install and Load Pier 12W
- 155052015 - Pier 12E - Drift from Access Shaft to Pier 12E
- 155053010 - Pier 12E - Excavate Pier 12E
- 155054010 - Pier 12E - Install and Load Pier 12E
- 207050605 - SWPS Dewatering - Install Ejector Wells
- 207050385 - SWPS Dewatering - Core Drill SWPS 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
- 207050386 - SWPS Core Drill CWIS Slab for Ejector Wells
- 132550050 - Install wire, conduit and raceway from pier to data room for Pier Instrumentation

B406050124 B40517
 PDR FOIA
 RICEB4-96 PDR

REMEDIAL SOILS
WORK AUTHORIZATION
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- 202550163 - Remove Abandoned Fire Protection Pipeline
- 206050105 - Crack Map SWPS
- 207050387 - Convert 7 wells used on 72" pipe repair to support SWPS dewatering
- 312150011 - Construct New Ring Beam Unit 1 BWST
- 32215011 - Construct New Ring Beam Unit 2 BWST
- 202550100 - SWPS Building Monitoring - Install Deep Seated Bench Marks
- 207050335 - SWPS Access Shaft and Open Cut Excavating - Install Soldier Piles
- 312150005 - BWST Unit #1 Tank - Drill and Grout Shear Connectors
- 322150005 - BWST Unit #2 Tank - Drill and Grout Shear Connectors
- 202550500 - Train A & B of 36" SW Pipe Replacement - Excavate Existing Pipe


D. B. Miller
Site Manager

DBM/GBJ/dmw

Attachment

	<u>ACTION</u>	<u>INFORMATION</u>
- J W Cook, P26-336B	_____	<u>X</u>
R A Wells, P14-113A	_____	<u>X</u>
- J A Boos, Bechtel Ann Arbor	_____	_____
- J A M y, P14-115A	_____	<u>X</u>
J E Brunner, M-1079	_____	<u>X</u>
- J R Schaub, P13-305	<u>X</u>	_____
R C Bauman, P14-312B	_____	<u>X</u>
- W R Bird, P14-418A	_____	<u>X</u>
- J K Meisenheimer, Midland	_____	<u>X</u>
A R Mollenkopf, P14-408A	_____	<u>X</u>
D B Miller, Midland	_____	<u>X</u>
T J Sullivan, P24-624A	_____	<u>X</u>
D M Budzik, P24-517A	_____	<u>X</u>
N J Saari, Midland	_____	<u>X</u>
D F Lewis, 7220, Ann Arbor Pouch	_____	<u>X</u>
R W Huston, Washington	_____	<u>X</u>
R L Teuteberg, P24-505	_____	<u>X</u>
NRC Correspondence File, P24-517	_____	<u>X</u>
IL&B:		
F C Williams, Washington	_____	<u>X</u>
P Steptoe, Chicago	_____	<u>X</u>
R M Wheeler, Midland	_____	<u>X</u>
Neil Swanberg, Bechtel Ann Arbor		
File: 0485.16		
UFI: 42*05*22*04		
GBJohnson, Midland		

WORK ACTIVITY LIST FOR THE PERIOD BETWEEN DECEMBER 1, 1982 AND DECEMBER 31, 1982
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		
<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)		
<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)		

Consumers Power Company
Midland Plant Units 1 & 2

Attachment to Serial CSC-6437

WORK ACTIVITY LIST FOR THE PERIOD BETWEEN DECEMBER 1, 1982 AND DECEMBER 31, 1982
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	
	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)
	115150026	Remove 36" casing and backfill 42" hole.	1 (9/17/82)
**	115150025	Clean out and backfill abandoned ejector holes. (ME 26A, ME 28A and ME 54)	R
	125150051	Install Clay to Below Duct Bank (pit 4)	1 (8/12/82)
	125150052	Repair Duct Bank (pit 4) (includes excavate, drift, repair and backfill)	1 (8/25/82)
		<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)

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NEW OR REVISED ITEMS	ACTIVITY IDENTIFIER	PROGRAM, WORK AREA & ACTIVITY	PREVIOUS REGION III DESIGNATION
	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)
	165053010	Excavate Pier 12W ²	1 (8/12/82)
	165054010	Install & Load Pier 12W ³	1 (8/12/82)
		<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)
	155053010	Excavate Pier 12E ²	1 (8/12/82)
	155054010	Install & Load Pier 12E ³	1 (8/12/82)

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NEW OR REVISED ITEMS	ACTIVITY IDENTIFIER	PROGRAM, WORK AREA & ACTIVITY	PREVIOUS REGION III DESIGNATION
		<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)
		<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>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)	
*	102250205	Modify Beam Connections at elev 704 (10 connections)	
		<u>SERVICE WATER PUMP STRUCTURE UNDERPINNING PROGRAM</u>	
		<u>POST TENSIONING SYSTEM</u>	
*	202555170	Post Tensioning Tendon inspection & maintenance	
		<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)

Consumers Power Company
Midland Plant Units 1 & 2

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WORK ACTIVITY LIST FOR THE PERIOD BETWEEN DECEMBER 1, 1982 AND DECEMBER 31, 1982
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NEW OR REVISED ITEMS	ACTIVITY IDENTIFIER	PROGRAM, WORK AREA & ACTIVITY	PREVIOUS REGION III DESIGNATION
	207050603	Probe for Shallow Utilities	3 (9/17/82) A(9/17/82)
	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)
	206050100	Install Extensometers	1 (9/17/82)
	206050106	Install Instruments (Includes testing & calibration)	1 (9/17/82)
	206050102	Install Brackets	1 (9/17/82)
**	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)

Consumers Power Company
Midland Plant Units 1 & 2

Attachment to Serial CSC-6497

WORK ACTIVITY LIST FOR THE PERIOD BETWEEN DECEMBER 1, 1982 AND DECEMBER 31, 1982
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NEW OR REVISED ITEMS	ACTIVITY IDENTIFIER	PROGRAM, WORK AREA & ACTIVITY	PREVIOUS REGION III DESIGNATION
	206050104	Baseline, Operate, and Maintain Instrument System	3 (11/1/82) A(11/1/82)
		<u>ACCESS SHAFT & OPEN CUT EXCAVATION</u>	
	207050335	Install Soldier Piles	1 (8/12/82)
	207050332	Excavate for, & Install Concrete encased soldier piles	
	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	
	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)
	312150015	Relevel Tank	1 (9/17/82)
	312550019	Reinstall Electrical Ductbank	2 (9/17/82)
	312550018	Reinstall Piping, Pipe Hangers and Electrical Facilities	R

WORK ACTIVITY LIST FOR THE PERIOD BETWEEN DECEMBER 1, 1982 AND DECEMBER 31, 1982
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NEW OR REVISED ITEMS	ACTIVITY IDENTIFIER	PROGRAM, WORK AREA & ACTIVITY	PREVIOUS REGION III DESIGNATION
	322150111	UNIT 2 TANK Rebar Mapping	3 (8/25/82) A(8/25/82)
	322150005	Drill and Grout Shear Connectors	
	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)
	322150212	Repair Tank Weld Defect	1 (8/25/82) A(9/17/82)
	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>			
	202550500	<u>TRAIN A & 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)
	202550525	Temporary Backfill	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)

Consumers Power Company
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NEW OR REVISED ITEMS	ACTIVITY IDENTIFIER	PROGRAM, WORK AREA & ACTIVITY	PREVIOUS REGION III DESIGNATION
<u>PERMANENT DEWATERING PROGRAM</u>			
	522150005	Install Remaining Wells	1 (9/17/82)
	522550010	Excavate for, Construct, and Backfill Electrical Duct Bank	1 (9/17/82)
	522550015	Install Electrical Equipment & Conduit	1 (9/17/82)
	522550020	Excavate for, Install and Backfill Header Piping and Pumps (including equipment slabs and metering pits)	1 (9/17/82)
<u>CONSTRUCTION WORK IN SOIL MATERIAL PROGRAMS</u>			
<u>DIESEL FUEL STORAGE LINES</u>			
	722050001	Install Missile Shielding	1 (8/25/82)
	722050002	Excavate for, Remove, Reinstall and Backfill Diesel Fuel Oil Supply Lines	1 (11/1/82)
<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>COOLING POND DIKE</u>			
	742050001	Replace Armor Stone on N.E. dike	R

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NEW OR REVISED ITEMS	ACTIVITY IDENTIFIER	PROGRAM, WORK AREA & ACTIVITY	PREVIOUS REGION III DESIGNATION
		<u>CATHODIC PROTECTION</u>	
	752050001	Drill & Replace Anodes (as necessary)	1 (8/25/82)
	752050002	Drill & Install New Anodes	1 (11/1/82)
		<u>NITROGEN TANK INSTALLATION</u>	
	782550005	Excavate for, Install, and Backfill Electrical Duct Bank	1 (9/17/82)
	782550010	Excavate for, Install and Backfill Piping	1 (9/17/82)
	782550015	Excavate for, Install, and Backfill Concrete Pad	1 (9/17/82)
	782550020	Excavate for, Install, and Backfill Nitrogen Tanks and Associated Concrete Structures	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>CONTAINMENT TENDON ACCESS VENT HVAC</u>	
	802550010	Excavate for, Install and Backfill Electrical Duct Bank and Equipment Pad for the Unit 1 HVAC FAN	1 (9/17/82)
	802550020	Excavate for, Install and Backfill Electrical Duct Bank and Equipment Pad for the Unit 2 HVAC Fan	1 (9/17/82)
		<u>SIT/ILRT TEST FACILITIES</u>	
	812550010	Excavate for, Install and Backfill Utilities and Concrete Pad for the Unit 1 Test Equipment	1 (9/17/82)

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NEW OR REVISED ITEMS	ACTIVITY IDENTIFIER	PROGRAM, WORK AREA & ACTIVITY	PREVIOUS REGION III DESIGNATION
	812550020	Excavate for, Install and Backfill Utilities and Concrete Pad for the Unit 2 Test Equipment	1 (9/17/82)
		<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>OBS-4 Repair</u>	
	522550018	Dutch Cone Soil Testing in Vicinity of OBS-4 for exploratory purposes	

SUPPLEMENTAL 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>AUXILIARY BUILDING & FIVP UNDERPINNING PROGRAM</u>			
		<u>WEST ACCESS SHAFT</u>	
	165052020	Excavate Shaft to Elevation 597 (also remove material under FIVP on 3:1 slope)	1 (9/17/82)
		<u>EAST ACCESS SHAFT</u>	
	155052020	Excavate Shaft to Elevation 597 (also remove material under FIVP on 3:1 slope)	1 (9/17/82)
		<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)
	165054020	Install & Load Pier 8W ³	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)
	165059025	Excavate and remove mudslab for Grillage Beams between Pier 8W and Containment ¹	1 (9/17/82)
	165053025	Excavate for Support Columns next to Containment ²	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 Kc 2</u>	
	165052325	Drift from West Access Shaft to Pier Kc 2 ¹	1 (9/17/82)

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SUPPLEMENTAL WORK ACTIVITY LIST FOR THE PERIOD BETWEEN JANUARY 1, 1983 AND JANUARY 31, 1983
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NEW OR REVISED ITEMS	ACTIVITY IDENTIFIER	PROGRAM, WORK AREA & ACTIVITY	PREVIOUS REGION III DESIGNATION
	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)
	155054020	Install & Load Pier 8E ³	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)
	155059025	Excavate and remove mudslab for Grillage Beams between Pier 8E and Containment ¹	1 (9/17/82)
	155053025	Excavate for Support Columns next to Containment ²	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)

SUPPLEMENTAL WORK ACTIVITY LIST FOR THE PERIOD BETWEEN JANUARY 1, 1983 AND JANUARY 31, 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)
	155054315	Install & Load Pier Kc 11 ³	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>PIER 1E</u>	
	207053005	Excavate Pier 1E ²	1 (9/17/82)
	207054005	Install and load Pier 1E ³	1 (9/17/82)
		<u>PIER 1W</u>	
	207053010	Excavate Pier 1W ²	1 (9/17/82)
	207054010	Install and load Pier 1W ³	1 (9/17/82)

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>BORATED WATER STORAGE TANK FOUNDATION & TANK REPAIR PROGRAM</u>			
	312550100	<u>UNIT 1 TANK</u> Install Instruments (Includes testing and calibration)	1 (11/1/82)
	322550100	<u>UNIT 2 TANK</u> 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.