



**Consumers
Power
Company**

Dean L Quamme
Site Manager
Midland Project

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December 29, 1983

Mr J J Harrison
Midland Project Section
U S Nuclear Regulatory Commission
Region III
799 Roosevelt Road
Glen Ellyn, IL 60137

PRINCIPAL STAFF			
RA	has	DPRP	
C/RA		DE	
A/RA		DRMSP	
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MIDLAND ENERGY CENTER GWO 7020
REMEDIAL SOILS WORK AUTHORIZAITON
File: 0485.16 UFI: 42*05*22*04, 12*32 Serial: CSC-7107

We are enclosing the proposed list of work in accordance with the "NRC and CPCo Work Authorization Procedure" for the period between January 1, 1984 and January 31, 1984. 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 February 1984. Your review, comments and authorization of the specific work items as in accordance with the procedure are similarly requested.

DLQ/AEB/sc

Attachments

Dean L. Quamme

JAN 5 1984

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PDR ADOCK 05000329
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Consumers Power Company
Midland Plant Units 1 & 2

Attachment to Serial CSC-7107

WORK ACTIVITY LIST FOR THE PERIOD BETWEEN JANUARY 1, 1984 and JANUARY 31, 1984
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)
	102351125	Approval of MPQP-1, Rev 7	A (9/27/83)
		<u>AUXILIARY BUILDING & FIVP UNDERPINNING PROGRAM</u>	
		<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>BUILDING MONITORING</u>	
	102050130	Rework Instrument Conduit and Cable for EX2 and EX3 per Disposition on NCRs S-00561 and S-00563	
	102050120	Rework Conduit and Cables DMD5-E per Disposition of NCR FSO-322	
	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)

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NEW OR REVISED ITEMS	ACTIVITY IDENTIFIER	PROGRAM, WORK AREA & ACTIVITY	PREVIOUS REGION III DESIGNATION
	165052021	Terminate Cables in Data Room & Terminal Boxes & Pier Instrumentation	A (3/10/83)
*	146050000	Maintain and monitor jacking load on installed piers and grillages	
		<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)
	522550020	Repair Six (6) Existing Observation Wells (WB-1, WP-2, COE-10, PD-18, W-2, PD-38)	1 (4/5/83) A (9/23/83)
	115150026	Remove 36" Casing and Backfill 42" Hole	1 (9/17/82) A (9/27/83)
	102550135	Install piezometers BB1 & BB2 in Auxiliary Building Control Tower	A (7/28/83)
		<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>	
	165054010	Install & Load Pier 12W ³	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
		<u>PIER 11W</u>	
	165054015	Install & Load Pier 11W ³ (includes install bituminous plywood forms)	1 (8/25/82) A (2/22/83)
		<u>PIER 9W</u>	
	165054005	Install & Load Pier 9W ³	1 (9/17/82) A (2/24/83)
		<u>PIER 12E</u>	
	155054010	Install & Load Pier 12E ³	1 (8/12/82) A (12/9/82)
		<u>PIER 11E</u>	
	155054015	Install & Load Pier 11E ³	1 (8/25/82) A (2/22/83)
		<u>PIER 9E</u>	
	155054005	Install & Load Pier 9E ³	1 (9/17/82) A (2/24/83)
		<u>PIER 8E</u>	
	155054020	Install & Load Pier 8E ³	1 (9/17/82) A (5/3/83)
		<u>GRILLAGE STRUCTURE AT PIER 8E</u>	
	155055010	Install & Load Grillage Structure at Pier 8E	1 (9/17/82) A (6/20/83)
		<u>PIER 8W</u>	
	165054020	Install & Load Pier 8W ³	1 (9/17/82) A (5/3/83)
		<u>GRILLAGE STRUCTURE AT PIER 8W</u>	
	165055010	Install & Load Grillage Structure at Pier 8W	1 (9/17/82) A (6/20/83)
		<u>PIER 10W</u>	
	165054030	Install & Load Pier 10W ³	1 (4/5/83) A (5/3/83)

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NEW OR REVISED ITEMS	ACTIVITY IDENTIFIER	PROGRAM, WORK AREA & ACTIVITY	PREVIOUS REGION III DESIGNATION
	155054030	<u>PIER E10</u> Install & Load Pier 10E ³	1 (4/5/83) A (5/3/83)
	165054315	<u>PIER KC2</u> Install & Load Pier KC2 ³	1 (9/17/82) A (4/22/83)
	155054315	<u>PIER KC11</u> Install & Load Pier KC11 ³	1 (9/17/82) A (4/22/83)
	165054305	<u>PIER KC3</u> Install & Load KC3 ³	A (07/28/83)
	155054305	<u>PIER KC10</u> Install & Load KC10 ³	A (07/28/83)
	155053040	<u>PIER E13</u> Excavate Pier E13 ²	A (08/29/83)
	155054035	Install Pier E13	R
	165053040	<u>PIER W13</u> Excavate Pier W13 ²	A (08/29/83)
	165054035	Install Pier W13	R
	155052032	<u>PIER KC4</u> Finger Drift to KC4 ¹	R

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NEW OR REVISED ITEMS	ACTIVITY IDENTIFIER	PROGRAM, WORK AREA & ACTIVITY	PREVIOUS REGION III DESIGNATION
	155053315	Excavate Pier KC4 ²	R
	155054310	Install & Load Pier KC4 ³	R
		<u>PIER KC9</u>	
	165052032	Finger Drift to KC9 ¹	R
	165053315	Excavate Pier KC9 ²	R
	165054310	Install & Load Pier KC9 ³	R
		<u>LEVEL C WALES</u>	
	165055305	Install Level C Wales, West Side	A (08/29/83)
	155055305	Install Level C Wales, East Side	A (08/29/83)
		<u>DOWELS AT FIVP</u>	
	155050325	Install dowels at east FIVP	
	165050325	Install dowels at west FIVP	
		<u>PIER CT12</u>	
	155052035	Drift to CT12 from UAT ¹	A (9/30/83)
	155053050	Excavate Pier CT12 ²	R
	155054045	Install & Load Pier CT12 ³	A (10/26/83) Install Only

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NEW OR REVISED ITEMS	ACTIVITY IDENTIFIER	PROGRAM, WORK AREA & ACTIVITY	PREVIOUS REGION III DESIGNATION
		<u>PIER CT1</u>	
	165052035	Drift to CT1 from UAT ¹	A (9/30/83)
	165053050	Excavate Pier CT1 ²	N
	165054045	Install & Load Pier CT1 ³	A(10/26/83) Install Only
		<u>LONG DRIFTS</u>	
	155052030	Drift to KC3 from KC2 ¹	A (07/28/83)
	155052320	Drift From KC3 to 13ft East of KC4 ¹	A (09/23/83)
	165052320	Drift From KC10 to 9ft West of KC9 ¹	A (09/23/83)
		<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 Remaining Ejector Wells	A (6/23/83)
	207050646	Continuing Monitoring & Repair of the CWIS-SWPS Hydraulic Seal	A (9/27/83)
	207050600	Install Piezometers	A (6/23/83)
	207050635	Install Dewatering Discharge System (including headers, tank, pumps and electrical)	2 (9/17/82) A (6/23/83)

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NEW OR REVISED ITEMS	ACTIVITY IDENTIFIER	PROGRAM, WORK AREA & ACTIVITY	PREVIOUS REGION III DESIGNATION
	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)
	207050620	Activate, Operate and Maintain Dewatering System	1(9/17/82) A (5/27/83)
	202550164	<u>Modify Pipe Supports</u> SWPS - Modify pipe supports to allow for design load (30" OHBC 34, 20 & 16)	A (5/27/83)
	207050781	<u>ACCESS SHAFT & EXCAVATION</u> Excavate, lag, brace and install wales and struts in upper east section of SWPS access shaft (soldier piles 14 thru 30 - maximum excavation to EL 618'-3" excluding localized excavation at pipe supports). ⁴	A (9/30/83)
	207050782	Excavate, lag, brace and install wales and struts in upper west section of SWPS access shaft (soldier Piles 1 thru 14 - maximum excavation to EL 624'-9" excluding localized excavation at pipe supports). ⁴	A (9/30/83)
	207050783	Excavate lag, brace and install wales and struts, pour and cure concrete mudmat in lower east section of SWPS access shaft (soldier piles 15 thru 30 - maximum excavation to EL 618'±6" excluding localized excavation). ⁴	1 (7/5/83) A (10/19/83)
	207050784	Excavate, lag, brace and install wales and struts, pour and cure concrete mudmat in lower west section of SWPS access shaft (soldier piles 1 thru 14 - maximum excavation to EL 618'±6" excluding localized excavation). ⁴	1 (7/5/83) A (10/19/83)

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NEW OR REVISED ITEMS	ACTIVITY IDENTIFIER	PROGRAM, WORK AREA & ACTIVITY	PREVIOUS REGION III DESIGNATION
		<u>BUILDING MONITORING</u>	
	206050105	Crack Map SWPS	1 (9/17/82) A (3/10/83)
	206050101	Install Permanent Benchmark Covers	1 (9/17/82) A (4/20/83)
	206050104	Baseline, Operate, and Maintain Instrument System	A (9/01/83)
		<u>DUCTBANK PENETRATION</u>	
	852450105	SWPS - Provide Ducktbank Penetration in SWPS Wall and install pull box.	1(11/16/83)
		<u>CONSTRUCTION WORK IN SOIL MATERIAL PROGRAMS</u>	
		<u>OBS-4 Repair</u>	
	522550018	Dutch Cone Soil Testing in Vicinity of OBS-4 for exploratory purposes	A (07/28/83)
		<u>DIKE MAINTENANCE</u>	
	812550010	Normal dike maintenance in Q areas	A (5/27/83)
		<u>MISCELLANEOUS</u>	
	942450200	Remove (excavation) temporary uncontrolled fill located in Q areas (DWG C-45Q) as identified on NCRs and the OGSE action item logs, and backfill per Spec C-211Q	1 (7/5/83) A (9/27/83)

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SUPPLEMENTAL WORK ACTIVITY LIST FOR THE PERIOD BETWEEN FEBRUARY 1, 1984 AND FEBRUARY 29, 1984
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>BRACE/STRUT E10 & E11</u>	
	155055320	Install Brace/Strut E10 & E11	
		<u>BRACE/STRUT W10 & W11</u>	
	165055320	Install Brace/Strut W10 & W11	
		<u>EXCAVATION ZONES</u>	
	155052070	Excavate/Lag Zone Y3	
	165052070	Excavate/Lag Zone Z3	
		<u>SUPPORT BRACKET</u>	
	152555010	Install Temporary Support Bracket at E1	1(11/16/83)
	162555010	Install Temporary Support Bracket at W1	1(11/16/83)
		<u>PIER E16</u>	
	155052055	Access pit at Pier E16. Excavate, install and load Pier E16.	A (10/19/83)
		<u>PIER W16</u>	
	165052055	Access pit at Pier W16. Excavate, install and load Pier W16.	A (10/19/83)
		<u>PIER E17</u>	
	155052075	Drift to Pier E17 from E16. Excavate, install and load Pier E17.	A (10/19/83)

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SUPPLEMENTAL WORK ACTIVITY LIST FOR THE PERIOD BETWEEN FEBRUARY 1, 1984 AND FEBRUARY 29, 1984
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NEW OR REVISED ITEMS	ACTIVITY IDENTIFIER	PROGRAM, WORK AREA & ACTIVITY	PREVIOUS REGION III DESIGNATION
		<u>PIER W17</u>	
	165052075	Drift to Pier W17 from W16. Excavate, install and load Pier W17	A (10/19/83)

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
10. concrete invert
11. slope layback

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.
9. monitor and adjust pier jacks after load transfer

⁴ Excavate Access Shaft Activity Normally Includes:

1. excavate
2. fabricate and install steel lagging
3. fabricate and install structural steel supports and bracing
4. place mudmat
5. stabilize soil (as necessary)
6. localized dewatering (as necessary)
7. support and protect utilities

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.