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May 31, 1984

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

MIDLAND ENERGY CENTER
MIDLAND DOCKET NOS 50-329, 50-330
REMEDIAL SOILS WORK AUTHORIZATION
FILE 0485.16 SERIAL CSC-7778

PRINCIPAL STAFF

RA

DPRP

DVRA

DE

AVRA

DRMSP

RC

DRMA

PAO

SCS

SGA

ML

ENF

FILE

FILE

J A Mooney Executive Manager Midland Project Office

We are enclosing the proposed list of work in accordance with the "NRC and CPCo Work Authorization Procedure" for the period between June 1, 1984 and June 30, 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 July, 1984. Your review, comments and authorization of the specific work items as in accordance with the procedure are similarly requested.

JAM/AEB/klw

Attachments

CC DSHood, USNRC
RJCook, Midland Resident Inspector
JGKeppler, Regional Administrator

JUN 5 1984

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NEW OR REVISED ITEMS	ACTIVITY IDENTIFIER	PROGRAM, WORK AREA & ACTIVITY	PREVIOUS REGION III DESIGNATION
		GENERAL	
		QUALITY PROGRAM	
	102351100	Approval of MPQP-2, Rev 1	A (10/22/82)
	102351125	Approval of MPQP-1, Rev 7	A (09/27/83)
		AUXILIARY BUILDING & FIVP UNDERPINNING PROGRAM	
		WEST FIVP	
	102150010	Install Anchor Bolts & Rods (includes hardness test on rods, drill concrete & steel and tensioning)	1 (08/12/82) A (08/13/82)
		EAST FIVP	
	112150010	Install Anchor Bolts & Rods (includes hardness tests on rods, drill concrete & steel, and tension)	1 (08/12/82) A (08/13/82)
		BUILDING MONITORING	
	132550027	Install strain gauges and terminate cables (includes testing and calibration)	A(07/28/83)
	102050130	Rework Instrument Conduit and Cable for EX2 and EX3 per Disposition on NCRs S-00561 and S-00563	A (01/30/84)
	102950125	Install vertical movement monitoring instruments in Control Tower Wall	A (02/28/84)
	136050043	Maintain Instrument System	3 (08/12/82) A (08/12/82)
mi0882-2439d173-	12		JEKostielney 05/24/84

		DEVELOPED IN COMPLIANCE WITH ASLB ORDER OF APRIL 30, 1982	
NEW OR REVISED ITEMS	ACTIVITY IDENTIFIER	PROGRAM, WORK AREA & ACTIVITY	PREVIOUS REGION III DESIGNATION
	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 (03/10/83)
	146050000	Maintain and monitor jacking load on installed piers and grillages <sup>5</sup> GENERAL TEMPORARY DEWATERING	A (01/30/84)
	125150050	Continue Monitoring Utility Protection Pits (4)	3 (08/12/82) A (08/12/82)
	115150020	Continue Operation of Freeze System & Wells	3 (08/12/82) A (08/12/82)
	522550020	Repair Six (6) Existing Observation Wells (WB-1, WP-2, COE-10, PD-18, W-2, PD-38)	1 (04/05/83) A (09/23/83)
		CRACK MAPPING  (includes scaffolding platforms, ladders and extra-ordinary clean up)	
	142550100	Remove concrete surface as required for crack measurements.	A (01/24/84)
	102250200	EPA (East & West)	3 (08/12/82) A (08/12/82)
	102250105	FIVP (East & West)	3 (08/12/82) A (08/12/82)
	102250100	Control Tower & Remainder of Aux Bldg	3 (08/12/82) A (08/12/82)
		GRILLAGE STRUCTURE AT PIER 8E	
	155055010	Install & Load Grillage Structure at Pier 8E	1 (09/17/82) A (06/20/83)

NEW OR REVISED ITEMS	ACTIVITY IDENTIFIER	PROGRAM, WORK AREA & ACTIVITY	PREVIOUS REGION III DESIGNATION
		GRILLAGE STRUCTURE AT PIER 8W	
	165055010	Install & Load Grillage Structure at Pier 8W	1 (09/17/82) A (06/20/83)
		PIER E5 SUPPORT COLUMNS & GRILLAGE	
	155055020	Excavate for & install support columns next to containment & install and load grillage structure at Pier E5. (Including Instrumentation)	A (03/30/84)
		PIER W5 SUPPORT COLUMNS & GRILLAGE	
	165055020	Excavate for & install support columns next to containment & install and load grillage structure at Pier W5. (Including Instrumentation)	A (03/30/84)
		PIER E3	
*	155052135	Finger drift to, excavate, install and load Pier E31,2,3	
		PIER W3	
*	165052135	Finger drift to, excavate, install and load Pier W3 <sup>1,2,3</sup>	
		PIER E7	
*	155052115	Finger drift to, excavate, install and load Pier E7 <sup>1,2,3</sup>	
		PIER W7	
*	165052115	Finger drift to, excavate, install and load Pier W7 <sup>1,2,3</sup>	

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
		PIER E17	
	155055068	Excavate, Install and Load Redesigned E-17	A (03/14/84)
	155052075	Drift to Pier E17 from E16. Excavate, install and load Pier E17.	A (01/20/84)
		PIER W17	
*	165055068	Excavate, install and load redesigned W17	A (05/16/84)
	165052075	Drift to Pier W17 from W16. Excavate, install and load Pier W17.	A (01/20/84)
		PIER KC5	
	165052340	Finger drift to, excavate, install & load Pier KC51,2,3	A (03/30/84)
		PIER KC8	
	155052340	Finger drift to, excavate, install & load Pier KC81,2,3	A (03/30/84)
		PIER CT3	
	165052080	Drift to, Excavate, Install & Load Pier CT31,2,3	1 (03/06/84) A (03/30/84)
		PIER CT10	
	155052080	Drift to, Excavate, Install & Load Pier CT101,2,3	1 (03/06/84) A (03/30/84)
		DOWELS AT FIVE	
	155050325	Install dowels at east FIVP	1 (02/06/84)
	165050325	Install dowels at west FIVP	1 (02/06/84)
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NEW OR REVISED ITEMS	ACTIVITY IDENTIFIER	PROGRAM, WORK AREA & ACTIVITY	PREVIOUS REGION III DESIGNATION
		LEVEL C WALES	
	165055305	Install Level C Wales, West Side	A (08/29/83)
	155055305	Install Level C Wales, East Side	A (08/29/83)
		EXCAVATION ZONES	
	155052070	Excavate/Lag Zone Y3	1 (02/06/84) A (03/14/84)
	165052070	Excavate/Lag Zone Z3	1 (02/06/84) A (03/14/84)
		SUPPORT BRACKETS	
	152555010	Install Temporary Support Bracket at El	1 (11/16/83) A (03/14/84)
	162555010	Install Temporary Support Bracket at W1	1 (11/16/83) A (03/14/84)
*	152555020	Install & Load Temporary Support Bracket @ Col KC-7	
*	162555020	Install & Load Temporary Support Bracket @ Col KC-5.89 & KC-6	
		E8 & E9 TIEBACKS	
	155055480	Install Tiebacks at E8 & E9	
		W8 & W9 TIEBACKS	
	165055480	Install Tiebacks at W8 & W9	

NEW OR REVISED ITEMS	ACTIVITY IDENTIFIER	PROGRAM, WORK AREA & ACTIVITY	PREVIOUS REGION IIT DESIGNATION	
		LONG DRIFTS		
	165052375	Complete Drift KC4 to CT1 <sup>1</sup>	A (03/30/84)	
	155052375	Complete Drift KC9 to CT12 <sup>1</sup>	A (03/30/84)	
	155052320	Drift From KC3 to 13ft East of KC4 <sup>1</sup>	A (09/23/83)	
	165052320	Drift From KC10 to 9ft West of KC9 <sup>1</sup>	A (09/23/83)	
		SERVICE WATER PUMP STRUCTURE UNDERPINNING PROGRAM		
		POST TENSIONING SYSTEM		
	202555170	Post Tensioning Tendon inspection & maintenance	3 (12/07/82) A (12/07/82)	
		DEWATERING		
	207050646	Continuing Monitoring & Repair of the CWIS-SWPS Hydraulic Seal	A (09/27/83)	
	207050387	Convert 7 Wells used on 72" pipe repair to support SWPS dewatering. (Includes install new ejectors, temporary headers, operate, & maintain)	1 (11/01/82) A (02/11/83)	
	207050620	Activate, Operate and Maintain Dewatering System	1 (09/17/82) A (05/27/83)	

NEW OR REVISED ITEMS	ACTIVITY IDENTIFIER	PROGRAM, WORK AREA & ACTIVITY	PREVIOUS REGION III DESIGNATION
		ACCESS SHAFT & EXCAVATION	
	200050005	SWPS Soils Stabilization	A (01/30/84)
*	200054000	Concreting of SWPS north floor trench and core drilling of through anchor bolt holes.	A (05/16/84)
	207050781	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).	A (09/30/83)
	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 (09/30/83,
	207050783	Excavate lag, brace and install wales and struts, pour and cure concrete mudmat in lower east section of SWPS access shaft (soldier piles 14 thru 30 - below elev 618'-3").4	A (05/16/84)
	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 - below elev 624'-9") <sup>4</sup>	A (05/16/84)

NEW OR REVISED ITEMS	ACTIVITY IDENTIFIER	PROGRAM, WORK AREA & ACTIVITY	PREVIOUS REGION III DESIGNATION
		BUILDING MONITORING	
	206050105	Crack Map SWPS	1 (09/17/82) A (03/10/83)
	206050101	Install Permanent Benchmark Covers	1 (09/17/82) A (04/20/83)
	206050104	Baseline, Operate, and Maintain Instrument System	A (09/01/83)
		BORATED WATER STORAGE TANK FOUNDATION & TANK REPAIR PROGRAM	
		UNIT 1 TANK	
	312150011	Construct New Ring Beam (set forms & place rebar, pour concrete)	1 (08/12/82) A (07/08/83)
	312550019	Reinstall Electrical Ductbank	2 (09/17/82) A (04/06/83)
	312550100	Install Instruments (includes testing and calibration)	1 (11/01/82)
		UNIT 2 TANK	
	322150011	Construct New Ring Beam (set forms & place rebar, pour concrete)	1 (08/12/82) A (07/08/83)
	322550019	Reinstall Electrical Ductbank	2 (09/17/82) A (04/06/83)
	322550100	Install Instruments (includes testing and calibration)	1 (11/01/82)

NEW OR REVISED ITEMS	ACTIVITY IDENTIFIER	PROGRAM, WORK AREA & ACTIVITY	PREVIOUS REGION III DESIGNATION
		CONSTRUCTION WORK IN SOIL MATERIAL PROGRAMS	
		DIESEL FUEL SUPPLY LINES	
*	722050001	Diesel Fuel Supply Lines-Install Missle Shielding	A (05/16/84)
**	722050002	Excavate and backfill for DFO supply lines	1 (11/01/82) A (05/16/84)
		CATHODIC PROTECTION	
	752050001	Drill and replace annodes (as necessary)	1 (08/25/82) A (10/06/83)
	752050002	Drill and install new annodes	1 (11/01/82) A (10/06/83)
		CONTAINMENT TENDON ACCESS VENT HVAC	
	802550020	Excavate for, Install and Backfill Electrical Duct Bank and Equipment Pad for the Unit 2 HVAC Fan	1 (09/17/82) A (05/16/84)
		DIKE MAINTENANCE	
	812550010	Normal dike maintenance in Q areas	A (05/27/83)
		PERMANENT DEWATERING PROGRAM	
	522150005	Install Remaining Wells	1 (09/17/82)
	522550016	Install electrical equipment & conduit	1 (09/17/82)
	522550021	Excavate, install and backfill header piping, electrical conduit, and pumps (including equipment slabs and metering pits)	1 (09/17/82)
	522550026	Assemble and wire pump control panels	R
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NEW OR REVISED ITEMS	ACTIVITY IDENTIFIER	PROGRAM, WORK AREA & ACTIVITY	PREVIOUS REGION III DESIGNATION
		MISCELLANEOUS	
	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 (07/05/83) A (09/27/83)
	202550195	Remove unacceptable backfill & casing and replace with controlled backfill (SWPS).	A (03/14/84)

### SUPPLEMENTAL WORK ACTIVITY LIST FOR THE PERIOD BETWEEN JULY 1, 1984 AND JULY 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
		AUXILIARY BUILDING & FIVP UNDERPINNING PROGRAM	
		BRACE/STRUT E10 & E11	
	155055320	Install Brace/Strut E10 & E11	1 (02/06/84) A (03/14/84)
		BRACE/STRUT W10 & W11	
	165055320	Install Brace/Strut W10 & W11	1 (02/06/84) A (03/14/84)
		PIER CT5	
	165052105	Drift to, Excavate, Install & Load Pier CT51,2,3	
		PIER CT 8	
	155052105	Drift to, Excavate, Install & Load Pier CT81,2,3	
		PIER E15	
	155052045	Drift to/access pit at Pier E15, excavate and install Pier E15.	A (04/16/84)
		PIER W15	
	165052045	Drift to/access pit at Pier W15, excavate and install Pier W15.	A (04/16/84)
		SERVICE WATER PUMP STRUCTURE UNDERPINNING PROGRAM	
		Pier 1	
*	207053005	Excavate Pier 1	
*	207050005	Set-up & perform plate load test @ Pier 1	
mi0882-2439f173-	12		JEKostielney 05/24/84

PREVIOUS REGION III
DESIGNATION

Consumers Power Company Midland Plant Units 1 & 2

SUPPLEMENTAL WORK ACTIVITY LIST FOR THE PERIOD BETVEEN JULY 1, 1984 AND JULY 31, 1984
DEVELOPED IN COMPLIANCE WITH ASLB ORDER OF APRIL 30, 1982

NEW OR REVISED ITEMS	ACTIVITY IDENTIFIER	PROGRAM, WORK AREA & ACTIVITY
		Pier 1A
*	207053010	Excavate Pier 1A
		UNDERGROUND PIPE REPLACEMENT, REBEDDING AND MONITORING PROGRAM
		SERVICE WATER PIPE REBEDDING
	400050100	Install Sheeted Pits @ Area A
	400050110	Install Soldier Beams @ Area A
	400050200	Install Sheeted Pits @ Area B
	400050210	Install Soldier Beams @ Area B
**	400050300	Install Sheeted Pits @ Area C (including 48" pipe repair)
**	400050310	Install Soldier Beams @ Area C (including 48" pipe repair)
	400050400	Install Sheeted Pits @ Area D
	400050410	Install Soldier Beams @ Area D

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### SUPPLEMENTAL WORK ACTIVITY LIST FOR THE PERIOD BETWEEN JULY 1, 1984 AND JULY 31, 1984 DEVELOPED IN COMPLIANCE WITH ASLB ORDER OF APRIL 30, 1982

NEW REVISED	ACTIVITY IDENTIFIER	PROGRAM, WORK AREA & ACTIVITY	PREVIOUS REGION III DESIGNATION
		CONSTRUCTION WORK IN SOIL MATERIAL PROGRAMS	
		MISCELLANEOUS	
*	912450100	Excavate for, repair, backfill 12" condenser drain line	
×	832450100	Excavate and backfill for Nitrogen Seal Tank Unit 1	
*	832450200	Excavate and backfill for Nitrogen Seal Tank Unit 2	
*	622450100	Excavate and backfill for repair of Deep Q Duct Bank near Pit 4	

Backfill Utility Monitoring Pits 1, 2, 3 and 4

#### 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
- <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
  - auger bottom of pit to determine hydrostatic water pressure & plug
  - 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
  - 5. place concrete
  - 6. fab & install leveling & bearing plates, jackstands
  - 7. install jacks
  - 8. transfer load
- 4 Excavate Access Shaft Activity Normally Includes:
  - 1. excavate
  - 2. fabricate and install steel lagging
  - 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
- Maintaining and Monitor Loading of Piers & Grillages This one activity is to eliminate the numerous activities used for maintaining loads of installed piers and grillages

#### 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.