



**Consumers
Power
Company**

General Offices: 1945 West Parnall Road, Jackson, MI 49201 • (517) 788-0774

J A Mooney
Executive Manager
Midland Project Office

July 28, 1983

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

MIDLAND ENERGY CENTER GWO 7020
REMEDIAL SOILS WORK AUTHORIZATION
File: 0485.16 UFI: 42*05*22*04 Serial: CSC-6798
12*32

We are enclosing the proposed list of work accordance with the "NRC and CPCo Work Authorization Procedure" for the period between August 1, 1983, and August 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 September, 1983. Your review, comments and authorization of the specific work items as in accordance with the procedure are similarly requested.

Jamoney

JAM/AEB/klm

Attachment

PRINCIPAL STAFF			
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WORK ACTIVITY LIST FOR THE PERIOD BETWEEN AUGUST 1, 1983 and AUGUST 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>	
	102351100	Approval of MPQP-2, Rev 1	A(10/22/82)
	102351120	Approval of MPQP-1, Rev 6	A(6/20/83)
		<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)
	162550010	<u>WEST TURBINE/AUX BUILDING PIPE TUNNEL MODIFICATION</u> Install Platform at El 600' (includes installation of Pipe Tunnel Reinforcement, cutting of opening, Modification of Handrails and Ladder and Protection of Existing Piping)	1 (4/5/83) A (4/20/83)
*	162550100	Exploratory probe for UAT (West)	
	162550012	PregROUT from UAT (West)	

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NEW OR REVISED ITEMS	ACTIVITY IDENTIFIER	PROGRAM, WORK AREA & ACTIVITY	PREVIOUS REGION III DESIGNATION
	152550010	<u>EAST TURBINE/AUX BUILDING PIPE TUNNEL MODIFICATION</u> Install Platform at El 600' (includes installation of Pipe Tunnel Reinforcement, cutting of opening, Modification of Handrails and Ladder and Protection of Existing Piping)	1 (4/5/83) A (4/20/83)
*	152550100	Exploratory probing for UAT (East)	
	152550012	PregROUT from UAT (East)	
	136050043	<u>BUILDING MONITORING</u> Maintain Instrument System	3 (8/12/82) A (8/12/82)
	132550027	Install strain gauges and terminate cables (includes testing and calibration)	A(07/28/83)
	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 (3/10/83)
	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)
	522550025	Excavate, Repair and Backfill Piezometer MP-2	1 (4/5/83)
	522550020	Repair Six (6) Existing Observation Wells (WB-1, WP-2, COE-10, PD-18, W-2, PD-38)	1 (4/5/83)
	125150051	Install Clay to Below Duct Bank (pit 4)	1 (8/12/82)

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	125150052	Repair Ductbank (Pit 4) (includes excavate, drift, repair and backfill)	1 (8/25/82)
	115150026	Remove 36" Casing and Backfill 42" Hole	1 (9/17/82)
	115150025	Clean out and backfill abandoned ejector holes (ME26A, ME28A and ME54)	R
*	102550135	Install piezometers BB1 & BB2 in Auxiliary Building Control Tower	A(07/28/83)
		<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)
	165054010	<u>PIER 12W</u> Install & Load Pier 12W ³	1 (8/12/82) A (12/9/82)
	165054015	<u>PIER 11W</u> Install & Load Pier 11W ³ (includes install bituminous plywood forms)	1 (8/25/82) A (2/22/83)
	165054005	<u>PIER 9W</u> Install & Load Pier 9W ³	1 (9/17/82) A (2/24/83)
		<u>PIER 12E</u>	

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NEW OR REVISED ITEMS	ACTIVITY IDENTIFIER	PROGRAM, WORK AREA & ACTIVITY	PREVIOUS REGION III DESIGNATION
	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>	
	155053025	Excavate for Support Columns next to Containment ²	1 (9/17/82) A (6/20/83)
	155055003	Install Steel Support Columns next to Containment	1 (9/17/82) A (6/20/83)
	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>	
	165053025	Excavate for Support Columns next to Containment ²	1 (9/17/82) A (6/20/83)
	165055003	Install Steel Support Columns next to Containment	1 (9/17/82) A (6/20/83)
	165055010	Install & Load Grillage Structure at Pier 8W	1 (9/17/82) A (6/20/83)

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NEW OR REVISED ITEMS	ACTIVITY IDENTIFIER	PROGRAM, WORK AREA & ACTIVITY	PREVIOUS REGION III DESIGNATION
		<u>EXCAVATION ZONES</u>	
	155052020	Excavate/Lag Zone Y1	1 (4/5/83) A (6/20/83)
	165052020	Excavate/Lag Zone Z1	1 (4/5/83) A (6/20/83)
	165056375	Excavate/Lag Zone Z2	A (5/27/83)
	155056375	Excavate/Lag Zone Y2	A (5/27/83)
		<u>PIER W10</u>	
	165054030	Install & Load Pier 10W ³	1 (4/5/83) A (5/3/83)
		<u>PIER E10</u>	
	155054030	Install & Load Pier 10E ³	1 (4/5/83) A (5/3/83)
		<u>SLAB Modification at El 659.0'</u>	
	102250208	Survey/Layout for Engineering Review in Preparation for Slab Fix @ El 659	3 (4/5/83) A (4/5/83)
		<u>PIER KC2</u>	
	165054315	Install & Load Pier KC2 ³	1 (9/17/82) A (4/22/83)
		<u>PIER KC11</u>	
	155054315	Install & Load Pier KC11 ³	1 (9/17/82) A (4/22/83)
		<u>PIER KC3</u>	
	165052310	Drift to KC3 from W8 ¹	A (07/28/83)
	165053310	Excavate Pier KC3 ²	A (07/28/83)
	165054305	Install & Load KC3 ³	A (07/28/83)

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NEW OR REVISED ITEMS	ACTIVITY IDENTIFIER	PROGRAM, WORK AREA & ACTIVITY	PREVIOUS REGION III DESIGNATION
		<u>PIER KC10</u>	
	155052310	Drift to KC10 from E8 ¹	A (07/28/83)
	155053310	Excavate Pier KC10 ²	A (07/28/83)
	155054305	Install & Load KC10 ³	A (07/28/83)
		<u>PIER W14</u>	
	165052057	Drift From West Access Shaft to Pier W14 ¹ (includes Access Pit)	A (5/27/83)
	165053055	Excavate Pier W14 ²	A (5/27/83)
	165054050	Install Pier W14	A (5/27/83)
		<u>PIER E14</u>	
	155052057	Drift from East Access Shaft to Pier E14 ¹ (includes Access Pit)	A (5/27/83)
	155053055	Excavate Pier E14 ²	A (5/27/83)
	155054050	Install Pier E14	A (5/27/83)

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NEW OR REVISED ITEMS	ACTIVITY IDENTIFIER	PROGRAM, WORK AREA & ACTIVITY	PREVIOUS REGION III DESIGNATION
<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)
	207050385	Core Drill SWPS Slab for Ejector Wells	A (3/17/83)
	207050386	Core Drill CWIS Slab for Ejector Wells	1(11/1/82) A (3/17/83)
	207050748	Probe for Deep Utilities Outside El 610 Excavation Limits (Ref Dwg C-2031)	1 (4/5/83) A (5/27/83)
	207050380	Core drill SWPS and CWIS slabs for Piezometers	A (4/13/83)
	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)
	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)
		<u>Fill SWPS Chambers (Bays)</u>	
	203150165	Fill SWPS Chambers with Water to El 622 ($\pm 5'$)	
		<u>Modify Pipe Supports</u>	
	202550164	SWPS - Modify pipe supports to allow for design load (30" OHBC 34, 20 & 16)	A (5/27/83)

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NEW OR REVISED ITEMS	ACTIVITY IDENTIFIER	PROGRAM, WORK AREA & ACTIVITY	PREVIOUS REGION III DESIGNATION
**	207050335	<u>ACCESS SHAFT & EXCAVATION</u> Install Soldier Piles	1 (8/12/82) A (5/27/83)
	202550100	<u>BUILDING MONITORING</u> Install Deep Seated Bench Marks	1 (8/12/82) A (4/4/83)
	206050105	Crack Map SWPS	1 (9/17/82) A (3/10/83)
	202550130	Installation of Extensometer Anchors	1 (4/5/83) A (4/13/83)
	202550120	Installation of Extensometer Covers	3 (4/5/83) A (4/5/83)
	206050100	Install Extensometers	1 (9/17/82) A (5/27/83)
	206050106	Install Instruments and Terminate Instrument Cables (Includes testing & calibration)	1 (9/17/82) A (5/27/83)
	206050102	Install Brackets	1 (9/17/82) A (4/20/83)
	207550103	Install Conduit & Raceway	1 (9/17/82) A (2/22/83)
	202550104	Install cable and terminate at Data Acquisition Room	1 (9/17/82) A (5/27/83)
	206050101	Install Permanent Benchmark Covers	1 (9/17/82) A (4/20/83)
	206050104	Baseline, Operate, and Maintain Instrument System	R
*	852450105	<u>DUCTBANK PENETRATION</u> SWPS - Provide Ducktbank Penetration in SWPS Wall and install pull box.	

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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>			
		<u>UNIT 1 TANK</u>	
	312150005	Drill and Grout Shear Connectors	2(12/13/82) A (4/20/83)
	312150007	Prepare concrete surfaces, drill holes & remove concrete for rebar.	A (4/20/83)
	312150011	Construct New Ring Beam (set forms & place rebar, pour concrete)	1 (8/12/82) A (7/8/83)
	312550019	Reinstall Electrical Ductbank	2 (9/17/82) A (4/6/83)
	312550018	Reinstall Piping, Pipe Hangers and Electrical Facilities	A (3/17/83)
		<u>UNIT 2 TANK</u>	
	322150005	Drill and Grout Shear Connectors	2(12/13/82) A (4/20/83)
	322150007	Prepare concrete surfaces, drill holes & remove concrete for rebar	A (4/20/83)
	322150011	Construct New Ring Beam (set forms & place rebar, pour concrete)	1 (8/12/82) A (7/8/83)
	322550019	Reinstall Electrical Duct Bank	2 (9/17/82) A (4/6/83)
	322550018	Reinstall Piping, Pipe Hangers and Electrical Facilities	A (3/17/83)
	322150212	Repair Tank Weld Defect	R

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NEW OR REVISED ITEMS	ACTIVITY IDENTIFIER	PROGRAM, WORK AREA & ACTIVITY	PREVIOUS REGION III DESIGNATION
<u>UNDERGROUND PIPE REPLACEMENT, REBEDDING, AND MONITORING PROGRAM</u>			
<u>SHALLOW PROBING FOR PHASE II</u>			
407050400		Shallow probing for Phase II (Ref DWG C-2031)	A (5/27/83)
<u>TRAIN A OF SERVICE WATER PIPE REPLACEMENT⁴</u>			
402550500		Excavate Existing Pipe	1 (8/12/82) A (5/27/83)
402550510		Remove Existing Pipe	1 (8/25/82) A (5/27/83)
402550520		Install new pipe & expansion coupling	1 (8/25/82) A (5/27/83)
402550515		Hydro Test new pipe	A (5/27/83)
402550507		Perform Profiling & Ovality Check on New Piping	A (5/27/83)
402550525		Temporary Backfill New Pipe	1 (4/5/83)
<u>CONSTRUCTION WORK IN SOIL MATERIAL PROGRAMS</u>			
<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)

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NEW OR REVISED ITEMS	ACTIVITY IDENTIFIER	PROGRAM, WORK AREA & ACTIVITY	PREVIOUS REGION III DESIGNATION
		<u>OBS-4 Repair</u>	
	522550018	Dutch Cone Soil Testing in Vicinity of OBS-4 for exploratory purposes	A (07/28/83)
		<u>Acid-Caustic Unloading Station</u>	
	822550001	Excavate, install and backfill drainline and slab for Acid-caustic unloading station at East end of Turbine Building	1 (11/1/62) A (4/20/83)
		<u>EMERGENCY PERSONNEL LOCKS - UNIT 2</u>	
	792550005	Excavate, rebar, pour concrete and backfill Airlock Structure	1 (9/17/82)
		<u>SIT/ILRT TEST FACILITIES</u>	
	862450105	Exploratory Excavation at SIT/ILRT Duct Bank	A(5/27/83)
		<u>PERMANENT DEWATERING PROGRAM</u>	
	522150005	Install Remaining Wells	1 (9/17/82)
	522550016	Install electrical equipment & conduit	1 (9/17/82)
**	522550020	Excavate, install and backfill header piping, electrical conduit, and pumps (including equipment slabs and metering pits)	1 (9/17/82)
	522550025	Assemble and wire pump control panels	

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NEW OR REVISED ITEMS	ACTIVITY IDENTIFIER	PROGRAM, WORK AREA & ACTIVITY	PREVIOUS REGION III DESIGNATION
		<u>DIESEL FUEL SUPPLY LINES</u>	
	722050001	Install missile shielding	1 (8/25/82)
	722050002	Excavate, remove, reinstall and backfill DFO supply lines	1 (11/1/82)
	802450005	Exporatory excavation for examination of diesel fuel oil lines	A (4/13/83)
		<u>DIKE MAINTENANCE</u>	
	812550010	Normal dike maintenance in Q areas	A (5/27/83)
		<u>CONTROL ROOM PRESSURIZATION TANK SETTLEMENT MARKERS</u>	
	932450100	Excavate for, install and backfill Control Room pressurization tank settlement markers	
		<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)
*	942450300	Excavate and backfill trench for ground cable east of Tech Support Center.	3 (7/15/83) A (7/15/83)
		<u>CATHODIC PROTECTION</u>	
	752050001	Drill and replace annodes (as necessary)	1 (8/25/82)
	752050002	Drill and install new annodes	1 (11/1/82)

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SUPPLEMENTAL WORK ACTIVITY LIST FOR THE PERIOD BETWEEN SEPTEMBER 1, 1983 AND SEPTEMBER 30, 1983
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NEW OR REVISED ITEMS	ACTIVITY IDENTIFIER	PROGRAM, WORK AREA & ACTIVITY	PREVIOUS REGION III DESIGNATION
		<u>AUXILIARY BUILDING & FIVP UNDERPINNING PROGRAM</u>	
		<u>SUPPORT BRACKET</u>	
	152555010	Install Temporary Support Bracket at E1	
	162555010	Install Temporary Support Bracket at W1	
		<u>PIER E13</u>	
	155053040	Excavate Pier E13 ²	A (5/27/83)
	155054035	Install Pier E13	A (5/27/83)
		<u>PIER W13</u>	
	165053040	Excavate Pier W13 ²	A (5/27/83)
	165054035	Install Pier W13	A (5/27/83)
		<u>DOWELS AT FIVP</u>	
	155050325	Install dowels at east FIVP	
	165050325	Install dowels at west FIVP	
		<u>LEVEL C WALES</u>	
	165055305	Install Level C Wales, West Side	A (5/27/83)
	155055305	Install Level C Wales, East Side	A (5/27/83)

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NEW OR REVISED ITEMS	ACTIVITY IDENTIFIER	PROGRAM, WORK AREA & ACTIVITY	PREVIOUS REGION III DESIGNATION
		<u>PIER CT12</u>	
	155052035	Drift to CT12 from UAT ¹	
	155053050	Excavate Pier CT12 ²	
	155054045	Install & Load Pier CT12 ³	
		<u>PIER CT1</u>	
	165052035	Drift to CT1 from UAT ¹	
**	165053050	Excavate Pier CT1 ²	
	165054045	Install & Load Pier CT1 ³	
		<u>PIER KC4</u>	
	155052032	Finger Drift to KC4 ¹	
	155053315	Excavate Pier KC4 ²	
	155054310	Install & Load Pier KC4 ³	
		<u>PIER KC9</u>	
	165052032	Finger Drift to KC9 ¹	
	165053315	Excavate Pier KC9 ²	
	165054310	Install & Load Pier KC9 ³	
		<u>LONG DRIFTS</u>	

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NEW OR REVISED ITEMS	ACTIVITY IDENTIFIER	PROGRAM, WORK AREA & ACTIVITY	PREVIOUS REGION III DESIGNATION
	155052320	Drift to KC4 from KC3 ¹	
	165052320	Drift to KC9 from KC10 ¹	A (07/28/83)
	155052030	Drift to KC3 from KC2 ¹	A (07/28/83)
	165052030	Drift to KC10 from KC11 ¹	
**	155054515	Construct concrete invert and layback soil KC2 to KC3	1 (7/5/83)
**	165054515	Construct concrete invert and layback soil KC11 to KC10	1 (7/5/83)
<u>UNDERGROUND PIPE REPLACEMENT, REBEDDING, AND MONITORING PROGRAM</u>			
<u>TRAIN B OF SERVICE WATER PIPE REPLACEMENT⁴</u>			
	402550446	Excavate Existing Pipe	1 (8/12/82)
	402550550	Remove Existing Pipe	R
	402550560	Install new pipe & expansion coupling	R
	402550561	Hydro Test new pipe	R
	402550508	Perform Profiling & Ovality Check on New Piping	R
	402550562	Temporary Backfill New Pipe	1 (4/5/83)

SUPPLEMENTAL WORK ACTIVITY LIST FOR THE PERIOD BETWEEN SEPTEMBER 1, 1983 AND SEPTEMBER 30, 1983
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NEW OR REVISED ITEMS	ACTIVITY IDENTIFIER	PROGRAM, WORK AREA & ACTIVITY	PREVIOUS REGION III DESIGNATION
		<u>SERVICE WATER PUMP STRUCTURE UNDERPINNING PROGRAM</u>	
		<u>EXCAVATION</u>	
**	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). ⁵	
	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). ⁵	
	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.) ⁵	1 (7/5/83)
	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.) ⁵	1 (7/5/83)
	202550163	Remove abandoned fire protection pipeline	1 (11/1/82) A (5/27/83)
		<u>DEWATERING SYSTEM</u>	
	207050620	Activate, Operate and Maintain Dewatering System	1 (9/17/82) A (5/27/83)
		<u>BORATED WATER STORAGE TANK FOUNDATION AND TANK REPAIR PROGRAM</u>	

Consumers Power Company
Midland Plant Units 1 & 2

Attachment to Serial CSC-6798

SUPPLEMENTAL WORK ACTIVITY LIST FOR THE PERIOD BETWEEN SEPTEMBER 1, 1983 AND SEPTEMBER 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
	312150015	Relevel Tank-Unit 1	1 (9/17/82)
	312550100	Install Instruments (includes testing and calibration)	1 (11/1/82)
	322550100	Install Instruments (includes testing and calibration)	1 (11/1/82)
<u>CONSTRUCTION WORK IN SOIL MATERIAL PROGRAMS</u>			
<u>PERMANENT DEWATERING</u>			
	522550014	Excavate Headers & Metering Pits, Install Header and Level Monitoring System, Install Pumps, Timers and Backfill	
<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>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 (9/17/82)