



**Consumers
Power
Company**

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June 30, 1983

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Mr J J Harrison
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MIDLAND ENERGY CENTER GWO 7020
REMEDIAL SOILS WORK AUTHORIZATION
File: 0485.16 UFI: 42*05*22*04 Serial: CSC-6759
12*32

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

J. Mooney

JAM/AEB/klm

Attachment

JUL 5 1983

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Consumers Power Company
Midland Plant Units 1 & 2

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WORK ACTIVITY LIST FOR THE PERIOD BETWEEN JULY 1, 1983 AND JULY 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>ACCESS SHAFTS</u>	
	105050906	Redress the slope lay back surfaces	A (3/17/83)
		<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)

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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)
	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)	
	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)
	125150052	Repair Ductbank (Pit 4) (includes excavate, drift, repair and backfill)	1 (8/25/82)

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NEW OR REVISED ITEMS	ACTIVITY IDENTIFIER	PROGRAM, WORK AREA & ACTIVITY	PREVIOUS REGION III DESIGNATION
	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
		<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)
	155054010	<u>PIER 12E</u> Install & Load Pier 12E ³	1 (8/12/82) A (12/9/82)
	155054015	<u>PIER 11E</u> Install & Load Pier 11E ³	1 (8/25/82) A (2/22/83)

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NEW OR REVISED ITEMS	ACTIVITY IDENTIFIER	PROGRAM, WORK AREA & ACTIVITY	PREVIOUS REGION III DESIGNATION
	155054005	PIER 9E Install & Load Pier 9E ³	1 (9/17/82) A (2/24/83)
	155054020	PIER 8E Install & Load Pier 8E ³	1 (9/17/82) A (5/3/83)
	155052305	GRILLAGE STRUCTURE AT PIER 8E Drift for and Install Bulkhead from Pier 8E north to Containment Wall ¹	1 (9/17/82) A (6/20/83)
	155059025	Excavate and Remove Mudslab for Grillage Beams Between Pier 8E and Containment ¹	1 (9/17/82) A (6/20/83)
	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)
	165054020	PIER 8W Install & Load Pier 8W ³	1 (9/17/82) A (5/3/83)
	165052305	GRILLAGE STRUCTURE AT PIER 8W Drift for and Install Bulkhead from Pier 8W north to Containment Wall ¹	1 (9/17/82) A (6/20/83)
	165059025	Excavate and Remove Mudslab for Grillage Beams Between Pier 8W and Containment ¹	1 (9/17/82) A (6/20/83)
	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)

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	165055010	Install & Load Grillage Structure at Pier 8W	1 (9/17/82) A (6/20/83)
		<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 (4/22/83)

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NEW OR REVISED ITEMS	ACTIVITY IDENTIFIER	PROGRAM, WORK AREA & ACTIVITY	PREVIOUS REGION III DESIGNATION
	165053310	Excavate Pier KC3 ²	A (4/22/83)
	165054305	Install & Load KC3 ³	A (4/22/83)
		<u>PIER KC10</u>	
	155052310	Drift to KC10 from E8 ¹	A (4/22/83)
	155053310	Excavate Pier KC10 ²	A (4/22/83)
	155054305	Install & Load KC10 ³	A (4/22/83)
		<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)
	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)

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	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)
	203150165	<u>Fill SWPS Chambers (Bays)</u> Fill SWPS Chambers with Water to El 622 (±5')	
	202550164	<u>Modify Pipe Supports</u> SWPS - Modify pipe supports to allow for design load (30" OHBC 34, 20 & 16)	A (5/27/83)
	207050335	<u>ACCESS SHAFT & OPEN CUT 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)

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	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
		<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)
	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)

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	322150011	Construct New Ring Beam (set forms & place rebar, pour concrete)	1 (8/12/82)
	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
<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)

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NEW OR REVISED ITEMS	ACTIVITY IDENTIFIER	PROGRAM, WORK AREA & ACTIVITY	PREVIOUS REGION III DESIGNATION
<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)
<u>OBS-4 Repair</u>			
	522550018	Dutch Cone Soil Testing in Vicinity of OBS-4 for exploratory purposes	2 (12/13/82) A (4/13/83)
<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 (11/1/82) 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)

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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, construct and backfill electrical duct bank	1 (9/17/82)
	522550015	Install Guard Posts for Protection of Well J-1	3 (4/5/83) A (4/5/83)
	522550016	Install electrical equipment & conduit	1 (9/17/82)
	522550020	Excavate, install and backfill header piping and pumps (including equipment slabs and metering pits)	1 (9/17/82)
	522550025	Assemble and wire pump control panels	
		<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)
		<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)

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	802450605	Exporatory excavation for examination of diesel fuel oil lines	A (4/13/83)
	812550010	<u>DIKE MAINTENANCE</u> Normal dike maintenance in Q areas	A (5/27/83)
	932450100	<u>CONTROL ROOM PRESSURIZATION TANK SETTLEMENT MARKERS</u> Excavate for, install and backfill Control Room pressurization tank settlement markers	
*	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	

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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>PIER W16</u>	
	165052055	Drift from West Access Shaft to Pier W16 ¹ (includes Access Pit)	
	165053037	Excavate Pier W16 ²	
	165054040	Install & Load Pier W16 ³	
		<u>PIER E16</u>	
	155052055	Drift from East Access Shaft to Pier E16 ¹	
	155053037	Excavate Pier E16 ²	
	155054040	Install & Load Pier E16 ³	
		<u>SUPPORT BRACKET</u>	
	152555010	Install Temporary Support Bracket at E1	
	162555010	Install Temporary Support Bracket at W1	
		<u>SLAB MODIFICATION AT EL 659.0</u>	
**	102250230	Install stiffener plates and related modifications to existing slab (includes any associated concrete removal) ⁶	

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NEW OR REVISED ITEMS	ACTIVITY IDENTIFIER	PROGRAM, WORK AREA & ACTIVITY	PREVIOUS REGION III DESIGNATION
		<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>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>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)
		<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 CT12 ²	
	165054045	Install & Load Pier CT1 ³	
		<u>PIER KC4</u>	
	155052032	Finger Drift to KC4 ¹	

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	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>	
	155052320	Drift to KC4 from KC3 ¹	
	165052320	Drift to KC9 from KC10 ¹	
	155052030	Drift to KC3 from KC2 ¹	
	165052030	Drift to KC10 from KC11 ¹	
*	165054515	Construct concrete invert and layback soil KC2 to KC3	
*	155054515	Construct concrete invert and layback soil KC11 to KC10	
<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)

Consumers Power Company
Midland Plant Units 1 & 2

Attachment to Serial CSC-6759

SUPPLEMENTAL 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
	402550550	Remove Existing Pipe	1 (8/25/82) A (5/27/83)
	402550560	Install new pipe & expansion coupling	1 (8/25/82) A (5/27/83)
	402550561	Hydro Test new pipe	A (5/27/83)
	402550508	Perform Profiling & Ovality Check on New Piping	A (5/27/83)
	402550562	Temporary Backfill New Pipe	1 (4/5/83)

SERVICE WATER PUMP STRUCTURE UNDERPINNING PROGRAM

EXCAVATION

**	207050781	Excavate, lag, brace and install wales and struts in upper east section of SWPS access shaft (soldier piles 15 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

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NEW OR REVISED ITEMS	ACTIVITY IDENTIFIER	PROGRAM, WORK AREA & ACTIVITY	PREVIOUS REGION III DESIGNATION
*	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	
	202550163	Remove abandoned fire protection pipeline <u>DEWATERING SYSTEM</u>	1 (11/1/82) A (5/27/83)
	207050620	Activate, Operate and Maintain Dewatering System <u>BORATED WATER STORAGE TANK FOUNDATION AND TANK REPAIR PROGRAM</u>	1 (9/17/82)
	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) <u>STORM DRAIN SYSTEM</u>	1 (11/1/82)
	302050305	Storm Drain System in the Tank Farm Area (includes grade slab)	

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NEW OR REVISED ITEMS	ACTIVITY IDENTIFIER	PROGRAM, WORK AREA & ACTIVITY	PREVIOUS REGION III DESIGNATION
<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 Duck Bank and Equipment Pad for the Unit 1 HVAC Fan	1 (9/17/82)
802550020		Excavate for, Install and Backfill Electrical Duck Bank and Equipment Pad for the Unit 2 HVAC Fan	1 (9/17/82)
<u>CATHODIC PROTECTION</u>			
752050001		Drill and replace annodes (as necessary)	1 (8/25/82)
752050002		Drill & install new annodes	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.
 - *9. monitor and adjust pier jacks after load transfer
- ⁴ These activities have been broken down into Train A and Train B. They were previously combined under the title "Train A & B of Service Water Pipe Replacement."
- ⁵ 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
- ⁶ This activity was previously numbered incorrectly 102250203 and is now numbered 102250230

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.