



Consumers
Power
Company

J A Mooney
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50-329
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November 30, 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-7032
12*32

We are enclosing the proposed list of work in accordance with the "NRC and CPCo Work Authorization Procedure" for the period between December 1, 1983 and December 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 January, 1984. Your review, comments and authorization of the specific work items as in accordance with the procedure are similarly requested.

JAM/AEB/klw

Attachments

8312090008 831130
PDR ADOCK 05000329
A PDR

DEC -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 DECEMBER 1, 1983 and DECEMBER 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 MFQP 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)
		<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)
	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) A (9/23/83)
	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) A (9/27/83)
	115150025	Clean out and backfill abandoned ejector holes (ME26A, ME28A and ME54)	R
	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)

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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)
	165054010	PIER 12W Install & Load Pier 12W ³	1 (8/12/82) A (12/9/82)
	165054015	PIER 11W Install & Load Pier 11W ³ (includes install bituminous plywood forms)	1 (8/25/82) A (2/22/83)
	165054005	PIER 9W Install & Load Pier 9W ³	1 (9/17/82) A (2/24/83)
	155054010	PIER 12E Install & Load Pier 12E ³	1 (8/12/82) A (12/9/82)
	155054015	PIER 11E Install & Load Pier 11E ³	1 (8/25/82) A (2/22/83)
	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)
	155055010	GRILLAGE STRUCTURE AT PIER 8E 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)
	165055010	GRILLAGE STRUCTURE AT PIER 8W 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
	165054030	<u>PIER W10</u> Install & Load Pier 10W ³	1 (4/5/83) A (5/3/83)
	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

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NEW OR REVISED ITEMS	ACTIVITY IDENTIFIER	PROGRAM, WORK AREA & ACTIVITY	PREVIOUS REGION III DESIGNATION
		<u>PIER KC4</u>	
	155052032	Finger Drift to KC4 ¹	A (9/23/83)
	155053315	Excavate Pier KC4 ²	A (9/23/83)
	155054310	Install & Load Pier KC4 ³	A (9/23/83)
		<u>PIER KC9</u>	
	165052032	Finger Drift to KC9 ¹	A (9/23/83)
	165053315	Excavate Pier KC9 ²	A (9/23/83)
	165054310	Install & Load Pier KC9 ³	A (9/23/83)
		<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>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 CT12</u>	
	155052035	Drift to CT12 from UAT ¹	A (9/30/83)
	155053050	Excavate Pier CT12 ²	A (9/30/83)

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NEW OR REVISED ITEMS	ACTIVITY IDENTIFIER	PROGRAM, WORK AREA & ACTIVITY	PREVIOUS REGION III DESIGNATION
	155054045	Install & Load Pier CT12 ³	A(10/26/83) Install Only
		<u>PIER CT1</u>	
	165052035	Drift to CT1 from UAT ¹	A (9/30/83)
	165053050	Excavate Pier CT1 ²	A (9/30/83)
	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)

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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)
	207050620	Activate, Operate and Maintain Dewatering System	1(9/17/82) A (5/27/83)
	203150165	<u>Fill SWPS Chambers (Bays)</u> Fill SWPS Chambers with Water to El 622 ($\pm 5'$)	A (9/07/83)
	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' $\pm 6'$ excluding localized excavation). ⁴	1 (7/5/83) A (10/19/83)

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	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)
		<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>REBEDDING PHASE II</u>	
	400050100	Install Sheeted Pits Phase IIA	1(11/16/83)
		<u>BORATED WATER STORAGE TANK FOUNDATION & TANK REPAIR PROGRAM</u>	
		<u>UNIT 1 TANK</u>	
	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)

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NEW OR REVISED ITEMS	ACTIVITY IDENTIFIER	PROGRAM, WORK AREA & ACTIVITY	PREVIOUS REGION III DESIGNATION
		<u>UNIT 2 TANK</u>	
	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
	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>UNDERGROUND PIPE REPLACEMENT, REBEDDING, AND MONITORING PROGRAM</u>	
		<u>PHASE II PROBING & DEWATERING</u>	
	407050400	Shallow probing for Phase II (Ref DWG C-2031)	A (5/27/83)
	400050005	Deep Probing for Utilities Phase II	1(11/16/83)
	400050020	Installation of Phase II Dewatering Wells and Piezometers (if required)	1(11/16/83)
		<u>TRAIN B OF SERVICE WATER PIPE REPLACEMENT</u>	
	402550446	Excavate Existing Pipe	1 (8/12/82) A (9/07/83)
	402550550	Remove Existing Pipe	A (9/07/83)

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	402550560	Install new pipe & expansion coupling	A (9/07/83)
	402550561	Hydro Test new pipe	A (9/07/83)
	402550508	Perform Profiling & Ovality Check on New Piping	A (9/07/83)
	402550562	Temporary Backfill New Pipe	1 (4/5/83) A (9/07/83)
<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)
<u>OBS-4 Repair</u>			
	522550018	Dutch Cone Soil Testing in Vicinity of OBS-4 for exploratory purposes	A (07/28/83)
<u>EMERGENCY PERSONNEL LOCKS - UNIT 2</u>			
	792550005	Excavate, rebar, pour concrete and backfill Airlock Structure	1 (9/17/82) A (10/11/83)

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		<u>PERMANENT DEWATERING PROGRAM</u>	
	522150005	Install Remaining Wells	1 (9/17/82)
	522550016	Install electrical equipment & conduit	1 (9/17/82)
	522550021	Excavate, install and backfill header piping, electrical conduit, and pumps (including equipment slabs and metering pits)	1 (9/17/82)
	522550026	Assemble and wire pump control panels	A (9/23/83)
	522550014	Excavate Headers & Metering Pits, Install Header and Level Monitoring System, Install Pumps, Timers and Backfill	1(11/16/83)
		<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)
		<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	1(11/16/83)

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		<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)
	942450250	Locate 4" Borehole, East Side of Turbine Building	A (9/27/83)
		<u>CATHODIC PROTECTION</u>	
	752050001	Drill and replace annodes (as necessary)	1 (8/25/82) A (10/6/83)
	752050002	Drill and install new annodes	1 (11/1/82) A (10/6/83)
		<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)

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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>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>DOWELS AT FIVP</u>	
	155050325	Install dowels at east FIVP	
	165050325	Install dowels at west FIVP	
		<u>LONG DRIFTS</u>	
	165052375	Complete Drift KC4 to CT1 ¹	A (10/19/83)
	155052375	Complete Drift KC9 to CT12 ¹	A (10/19/83)
		<u>PIER CT3</u>	
	165052080	Drift To, Excavate, Install & Load Pier CT3 ^{1,2,3}	

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NEW OR REVISED ITEMS	ACTIVITY IDENTIFIER	PROGRAM, WORK AREA & ACTIVITY	PREVIOUS REGION III DESIGNATION
		<u>PIER CT10</u>	
	155052080	Drift To, Excavate, Install & Load Pier CT10 ^{1,2,3}	
		<u>PIER E5</u>	
	155052060	Finger drift and demo mudmat on Col ^a to J, excavate & install Pier E5 ^{1,2,3}	
		<u>PIER W5</u>	
	165052060	Finger drift and demo mudmat on Col 4 to J, excavate & install Pier W5 ^{1,2,3}	
		<u>PIER E5 SUPPORT COLUMNS & GRILLAGE</u>	
	155055020	Excavate for & install support columns next to containment & install and load grillage structure at Pier E5. (Including Instrumentation)	
		<u>PIER W5 SUPPORT COLUMNS & GRILLAGE</u>	
	165055020	Excavate for & install support columns next to containment & install and load grillage structure at Pier W5. (Including Instrumentation)	
		<u>PIER KC5</u>	
	165052340	Finger drift to, excavate, install & load Pier KC5. ^{1,2,3}	A (10/19/83)

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		<u>PIER KC8</u>	
155052340		Finger drift to, excavate, install & load Pier KC8. ^{1,2,3}	A (10/19/83)
		<u>PIER E15</u>	
155052045		Drift to/access pit at Pier E15, excavate and install Pier E15.	A (10/19/83)
		<u>PIER W15</u>	
165052045		Drift to/access pit at Pier W15, excavate and install Pier W15.	A (10/19/83)
		<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)
		<u>PIER W17</u>	
165052075		Drift to Pier W17 from W16. Excavate, install and load Pier W17.	A (10/19/83)
		<u>SERVICE WATER PUMP STRUCTURE UNDERPINNING PROGRAM</u>	
202550163		Remove abandoned fire protection pipeline (as necessary)	1 (11/1/82) A (5/27/83)

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NEW OR REVISED ITEMS	ACTIVITY IDENTIFIER	PROGRAM, WORK AREA & ACTIVITY	PREVIOUS REGION III DESIGNATION
		<u>REBEDDING PHASE II</u>	
	400050110	Install Soldier Beams Phase IIA	
	400050400	Install Sheeted Pits Phase IID	
	400050300	Install Sheeted Pits Phase IIC	
		<u>PIER 1</u>	
	207053005	Excavate, install and load Pier 1	
	207050005	Set up and perform plate load test Pier 1	
		<u>PIER 1A</u>	
	207053010	Excavate, install and load Pier 1A	
		<u>CONCRETE SWPS FLOOR TRENCH</u>	
	200054000	Concreting of SWPS North Floor Trench and core drilling of through anchor bolt holes.	
		<u>CONSTRUCTION WORK IN SOIL MATERIAL PROGRAMS</u>	
		<u>MISCELLANEOUS</u>	
	912450100	Repair Condensor Drain Line 2YBJ-8	

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.