

P4 PRODUCTION CONFINED SPACE LOG

MACHINE NUMBER SPACE DESCRIPTION	SPACE DESIGNATION	HAZARDS	REQUIRED ENTRY EQUIPMENT	FREQUENCY OF ENTRY
		ACCEPTABLE ENTRY PROCEDURES		
#41150-768 EAST PIG SAND HOPPER	PERMIT REQUIRED	1. Engulfment 2. Fall Hazard 3. Entrapment 4. Mechanical 5. Slip / Trip / Fall	1. Passport air monitor 2. Body harness attached to a mechanical retrieval device 3. Portable ladder	YEARLY (INSPECTION)
#41150-730 WEST PIG SAND HOPPER		1. Complete confined space permit 2. Air monitoring is within acceptable limits 3. Feed belt is locked out 4. Air for clam is locked out 5. Use body harness and retrieval winch		
#41301-105 (#1) #41102-105 (#2) #41003-105 (#3) #41104-105 (#4) #41105-105 (#5) #41106-105 (#6) VMM FEED HOPPERS	NON-PERMIT	1. Mechanical 2. Engulfment 3. Fall Hazard 4. Entrapment	1. Passport air monitor 2. Body harness attached to a mechanical retrieval device 3. Portable ladder	YEARLY (INSPECTION)
		1. Completed confined space permit 2. Air monitoring is within acceptable limits 3. Feed belt is locked out		
#41301-100 (#1) #41003-100 (#3) VMM HYDRAULIC RESERVOIRS	VENTILATION REQUIRED	1. Hydraulic oil vapors 2. Cleaning solvents	Any entry: 1. Special Entry form or permit 2. Passport air monitor 3. Body harness 4. Safety line If hot work: 1. Hot work permit 2. Portable blower	YEARLY (CLEANING) NORMALLY DONE FROM OUTSIDE WITH TOOLS
		Space will become ventilation required providing: 1. Contents are drained 2. No hot work is done 3. Multiple access hatches are opened or blower is used 4. All above is true and documented on Special Entry form		
#41301-312 (EAST) #41003-312 (WEST) PMC/FHC HYDRAULIC RESERVOIRS	VENTILATION REQUIRED	1. Hydraulic oil vapors 2. Cleaning solvents	Any entry: 1. Special Entry form or permit 2. Passport air monitor 3. Body harness 4. Safety line If hot work: 1. Hot work permit 2. Portable blower	YEARLY (CLEANING) NORMALLY DONE FROM OUTSIDE WITH TOOLS
		Space will become ventilation required providing: 1. Contents are drained 2. No hot work is done 3. Multiple access hatches are opened or blower is used 4. All above is true and documented on Special Entry form		

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#41104-250 BOND TANK	PERMIT REQUIRED	1. Engulfment 2. Fall Hazard 3. Dusty atmosphere 4. Entrapment	Any entry: 1. Confined space permit 2. Air monitor 3. Body harness 4. Retrieval system 5. Tripod 6. Dust mask If hot work: 1. Hot work permit 2. Portable blower	YEARLY (INSPECTION)
		1. Complete confined space permit 2. Complete hot work permit if needed 3. Drain contents 4. Block inflow pipe 5. Air monitoring must be within acceptable limits 6. Ventilate with blower 7. Use body harness and retrieval winch		
#41104-510 NEW SAND TANK	PERMIT REQUIRED	1. Engulfment 2. Fall Hazard 3. Dusty atmosphere 4. Entrapment	Any entry: 1. Confined space permit 2. Air monitor 3. Body harness 4. Retrieval system 5. Tripod 6. Dust mask If hot work: 1. Hot work permit 2. Portable blower	YEARLY (INSPECTION)
		1. Complete confined space permit 2. Complete hot work permit if needed 3. Drain contents 4. Block inflow pipe 5. Air monitoring must be within acceptable limits 6. Ventilate with blower 7. Use body harness and retrieval winch		
#41150-120 (#1) #41150-220 (#2) #41150-320 (#3) #41150-420 (#4) #41150-520 (#5) #41150-620 (#6) SAND SILOS	PERMIT REQUIRED	1. Engulfment 2. Fall Hazard 3. Dusty atmosphere 4. Entrapment	Any entry: 1. Confined space permit 2. Air monitor 3. Body harness 4. Retrieval system 5. Tripod 6. Dust mask If hot work: 1. Hot work permit 2. Portable blower	YEARLY (INSPECTION)
		1. Complete confined space permit 2. Complete hot work permit if needed 3. Drain contents 4. Lock out 106 belt 5. Air monitoring must be within acceptable limits 6. Ventilate with blower 7. Use body harness and retrieval winch		

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#41104-523 BOND DAY TANK	PERMIT REQUIRED	1. Engulfment 2. Fall Hazard 3. Dusty atmosphere 4. Entrapment	Any entry: 1. Confined space permit 2. Air monitor 3. Body harness 4. Retrieval system 5. Tripod 6. Dust mask If hot work: 1. Hot work permit 2. Portable blower	YEARLY (INSPECTION)
		1. Complete confined space permit 2. Complete hot work permit if needed 3. Drain contents 4. Lock out bond transport system 5. Air monitoring must be within acceptable limits 6. Ventilate with blower 7. Use ladder, body harness and lifeline		
#41104-512 NEW SAND DAY TANK	NOT A 1910.146 CONFINED SPACE	N / A No possible entry without disassembly.	N / A	N / A
#41150-100 (#1) #41150-200 (#2) #41150-300 (#3) #41150-400 (#4) #41150-500 (#5) #41150-600 (#6) VMM MULLORS	NON-PERMIT	1. Moving machinery 2. Engulfment	1. Lockouts	WEEKLY or AS NEEDED (INSPECTION, CLEANING, OR REPAIRS)
		Space will become non-permit providing: 1. No hot work is done 2. Entrance doors are left open to ventilate space 3. Main motor is locked out 4. Air valve is locked out		
#41301-535 EAST RCB SCREEN	NON-PERMIT	1. Moving machinery	1. Lock outs	QUARTERLY (INSPECTION)
#41105-530 WEST RCB SCREEN		Space will become non-permit providing: 1. No hot work is done 2. Air monitoring is within acceptable limits 3. RCB is locked out 4. Feed belt is locked out 5. All above is true and documented on Special Entry form		
#41301-542 #110 BELT HOPPER	PERMIT REQUIRED	1. Engulfment 2. Lack of oxygen 3. Fall Hazard	1. CGM monitor 2. Body harness attached to a mechanical retrieval device	YEARLY (INSPECTION)
#41105-538 #10 SAND BELT HOPPER		1. Fill out confined space permit 2. Fill out hot work permit if needed 3. Drain contents 4. Lock out 110 belt 5. Lock out 109 belt 6. Air monitoring must be within acceptable limits 7. Use body harness and retrieval winch		

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#41301-535 #110 BELT ENCLOSURE	NON-PERMIT	1. Moving machinery	1. Lock outs	MONTHLY (INSPECTION OF AERATORS)
#41105-540 #10 SAND BELT ENCLOSURE		1. Lock out		
#41301-550 EAST SAND COOLER	NON-PERMIT	1. Dusty atmosphere 2. Heat	1. CGM monitor 2. Portable blower or air system	QUARTERLY (INSPECTION)
#41104-552 WEST SAND COOLER		Space will become non-permit providing: 1. No hot work is done 2. Air monitoring must be within acceptable limits 3. Sand cooler is locked out 4. Feedbelt (10 or 110) is locked out 5. Dust collection is down 6. All above is true and documented on Special Entry form		
#41301-565 EAST BUCKET ELEVATOR	NON-PERMIT	1. Moving parts	N / A	AS NEEDED (REPAIRS)
#41104-560 WEST BUCKET ELEVATOR		1. Lock out		
#41301-405 (#1) #41102-405 (#2) #41003-405 (#3) #41104-405 (#4) #41105-405 (#5) #41106-405 (#6) CASTING COOLERS	NON-PERMIT	1. Dusty atmosphere 2. Heat	1. CGM monitor 2. Portable blower or air system	QUARTERLY (INSPECTION)
		1. Lock out 2. Air monitoring must be within acceptable limits 3. Provide continuous ventilation with system air or portable blower		
#41301-410 (#1) #41102-410 (#2) #41003-410 (#3) #41104-410 (#4) #41105-410 (#5) #41106-410 (#6) SCALE SHAKERS	NON-PERMIT	1. Dusty atmosphere 2. Heat	1. CGM monitor 2. Portable blower or air system	QUARTERLY (INSPECTION)
		1. Lock out 2. Air monitoring must be within acceptable limits 3. Provide continuous ventilation with system air or portable blower		

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#49199-409 SPENT ACID BULK TANK	PERMIT REQUIRED	N / A	N / A	NEVER BY PLANT 4 PERSONNEL
		NO ENTRY is permitted into this space		
#44410-120 (EAST) #44410-125 (WEST) #44180-500 (LAEMPE CELL) #44410-127 (NEW TANK) CORE SAND TANK	PERMIT REQUIRED	1. Engulfment 2. Fall Hazard	Any entry: 1. Confined space permit 2. Air monitor 3. Body harness 4. Retrieval system 5. Tripod 6. Dust mask If hot work: 1. Hot work permit 2. Portable blower	YEARLY (INSPECTION)
		1. Lock out / block fill pipe 2. Empty contents 3. Complete confined space permit 4. Air monitoring must be within acceptable limits 5. Fall protection with retrieval system for any entry 6. Hot work permit and forced ventilation required for any hot work		
#49199-401 EAST SCRUBBER	PERMIT REQUIRED	1. Sulfuric acid contact 2. Toxic vapors 3. Possible lack of oxygen	1. CGM monitor 2. Body harness attached to a mechanical retrieval device 3. Acid proof PPE	YEARLY (INSPECTION)
#49199-407 WEST SCRUBBER		1. Complete confined space permit 2. Complete hot work permit if needed 3. Lock out supply fan 4. Air monitoring must be within acceptable limits 5. Wear chemical resistant PPE 6. Use body harness and retrieval winch		
#49199-403 SCRUBBER DUCT WORK	NOT A 1910.146 CONFINED SPACE	N / A	N / A	N / A
		There are no openings large enough to enter into the Scrubber Duct Work		

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#42505-100 (#1) #42505-200 (#2) #42505-300 (#3) #42505-400 (#4) #42505-500 (#5) #42505-600 (#6) #42505-700 (#7) TUMBLAST SHOT HOPPERS	NOT A 1910.146 CONFINED SPACE	N / A No entry is possible without disassembly. Disassembly would eliminate all hazards.	N / A	N / A
CNC Press Utility Pit	NOT A 1910.146 CONFINED SPACE	N / A Through hatch on south end of pit	N / A	AS NEEDED (REPAIRS)
#42580-660 METAL SEPARATOR SYSTEM INSIDE TANK	PERMIT REQUIRED	<ol style="list-style-type: none"> Dusty atmosphere Engulfment Fall Hazard <ol style="list-style-type: none"> Lock out / block fill pipe Empty contents Complete confined space permit for any entry into this space Air monitoring must be within acceptable limits Fall protection with retrieval system for any entry Hot work permit and forced ventilation required for any hot work 	Any entry: <ol style="list-style-type: none"> Confined space permit Air monitor Body harness Retrieval system Tripod Dust mask If hot work: <ol style="list-style-type: none"> Hot work permit Portable blower 	YEARLY (INSPECTION)
#49198-675 DUST DISPOSAL BIN	PERMIT REQUIRED	<ol style="list-style-type: none"> Engulfment Fall Hazard Entrapment <ol style="list-style-type: none"> Complete confined space permit Complete hot work permit if needed Drain contents Block inflow pipe Air monitoring must be within acceptable limits Ventilate with blower Use body harness and retrieval winch 	Any entry: <ol style="list-style-type: none"> Confined space permit Air monitor Body harness Retrieval system Tripod Dust mask If hot work: <ol style="list-style-type: none"> Hot work permit Portable blower 	YEARLY (INSPECTION)
#42580-100 METAL FINES SILOS	NOT A 1910.146 CONFINED SPACE	N / A No entry possible without disassembly	N / A	N / A

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STORM SEWER MANHOLES (OUTDOORS AND CRANE BAY)	PERMIT REQUIRED	1. Lack of oxygen 2. Toxic gases 3. Possible biohazard	1. CGM monitor 2. Portable blower 3. Body harness attached to a mechanical retrieval device 4. Tripod 5. PPE (Respiratory protection)	NEVER BY PLANT 4 PERSONNEL
		1. Air monitoring must be within acceptable limits 2. Stable water flow		
FIRE VALVE SHUT-OFF	PERMIT REQUIRED	1. Lack of oxygen 2. Toxic gases 3. Possible biohazard	1. CGM monitor 2. Body harness attached to a mechanical retrieval device 3. Tripod 4. PPE (Respiratory protection)	AS NEEDED BY CONTRACTORS NEVER BY PLANT 4 PERSONNEL
		1. Air monitoring must be within acceptable limits 2. Continuous ventilation		
SUBSTATION TO PLANT UTILITY MANHOLE	PERMIT REQUIRED	1. Lack of oxygen 2. Toxic gases 3. High voltage and standing water	1. CGM monitor 2. Body harness attached to a mechanical retrieval device 3. Tripod	NEVER BY PLANT 4 PERSONNEL
		1. Air monitoring must be within acceptable limits 2. Lock out of electricity		
LINDE STORAGE TANK (O2) LINDE STORAGE TANK (N2)	CONTRACTOR OWNED	N / A	N / A	NEVER BY PLANT 4 PERSONNEL
		None - contractor owned. No openings		
#40112-280 #49198-102 (MOLDING) #49198-302 (PROCESS) #49199-423 (COREROOM) #49199-114 (#25-#26 MODULES) #49199-213 (#29-#30 MODULES) #49199-223 (#27-#28 MODULES) #49199-403 (SCRUBBER DUCTWORK) VENTILATION DUCTWORK	PERMIT REQUIRED	1. Dusty atmosphere 2. Carbon Monoxide	1. CGM monitor 2. Portable blower	AS NEEDED (INSPECTION)
		1. Complete confined space permit 2. Lock out 3. Continuous ventilation 4. Air monitoring must be within acceptable limits		

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#49198-707 EAST SAND COOLER SUPPLY CYCLONE	PERMIT REQUIRED	1. Fall hazard 2. Dusty atmosphere		1. CGM monitor 2. Body harness attached to a mechanical retrieval device	AS NEEDED (INSPECTION)
#49199-109 WEST SAND COOLER SUPPLY CYCLONE		1. Complete confined space permit 2. Lock out 3. Continuous ventilation 4. Air monitoring must be within acceptable limits			
#49199-555-557 #49199-570 (#8 NE, CFM) #49199-571 (#18 SW, AMU) #49199-572 (#9 S, CFM) #49199-573 (#19 AMU) #49199-574 (#10 CFM) #49199-576 (#11 CFM) #49199-578 (#12 CFM) #49199-580 (#13 CFM) MOLDING COLLECTOR FANS	NON-PERMIT	1. Moving fan blades		N / A	AS NEEDED
		1. Lock out equipment			
#49198-110 (#1) #49198-120 (#2) #49198-130 (#3) #49198-140 (#4) #49198-150 (#5) #49198-160 (#6) #49198-170 (#7) #49198-180 (#8) #49198-190 (#9) #49198-200 (#10) MOLDING COLLECTORS	NON-PERMIT	1. Possible carbon monoxide 2. Dusty atmosphere 3. Moving machinery (fan, auger, butterfly valve)		Any entry: 1. Air monitor 2. Lock outs 3. Portable ladder If hot work: 1. Hot work permit 2. Portable blower 3. Fire extinguisher near opening	MONTHLY (INSPECTION, MAINTENANCE)
		NO ENTRY PERMITTED WHEN MODULE IS IN USE When down: 1. Air monitoring must be within acceptable limits 2. Lock out fans and augers 3. If CO >50PPM or if any hot work is done, use positive pressure ventilation and full permit entry procedures USE EXTREME CAUTION DURING HOT WORK NEAR BAGS			

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#49198-310 (#11) #49198-320 (#12) #49198-330 (#13) #49198-340 (#14) #49198-350 (#15) #49198-360 (#16) #49198-370 (#17) #49198-380 (#18) #49198-390 (#19) #49198-400 (#20) #49198-410 (#21) #49198-420 (#22) #49198-430 (#23) #49198-440 (#24) PROCESS COLLECTORS	NON-PERMIT	1. Possible carbon monoxide 2. Dusty atmosphere 3. Moving machinery (fan, auger, butterfly valve)	Any entry: 1. Air monitor 2. Lock outs 3. Portable ladder If hot work: 1. Hot work permit 2. Portable blower 3. Fire extinguisher near opening	MONTHLY (INSPECTION, MAINTENANCE)								
		NO ENTRY PERMITTED WHEN MODULE IS IN USE										
		When down: 1. Air monitoring must be within acceptable limits 2. Lock out fans and augers 3. If CO >50PPM or if any hot work is done, use positive pressure ventilation and full permit entry procedures										
		USE EXTREME CAUTION DURING HOT WORK NEAR BAGS										
		#49199-101 (#25A) #49199-103 (#25B) #49199-105 (#26A) #49199-107 (#26B) #49199-221 (#27-#28) #49199-211 (#29-#30) SHAKEOUT COLLECTORS			NON-PERMIT	1. Possible carbon monoxide 2. Dusty atmosphere 3. Moving machinery (fan, auger, butterfly valve)	Any entry: 1. Air monitor 2. Lock outs 3. Portable ladder If hot work: 1. Hot work permit 2. Portable blower 3. Fire extinguisher near opening	MONTHLY (INSPECTION, MAINTENANCE)				
						NO ENTRY PERMITTED WHEN MODULE IS IN USE						
						When down: 1. Air monitoring must be within acceptable limits 2. Lock out fans and augers 3. If CO >50PPM or if any hot work is done, use positive pressure ventilation and full permit entry procedures						
						USE EXTREME CAUTION DURING HOT WORK NEAR BAGS						
						#49199-750 (#31) #49199-730 (#32) #49199-710 (#33) #49199-760 (#34) #49199-740 (#35) #49199-720 (#36) FURNACE COLLECTORS			NON-PERMIT	1. Possible carbon monoxide 2. Dusty atmosphere 3. Moving machinery (fan, auger, butterfly valve)	Any entry: 1. Air monitor 2. Lock outs 3. Portable ladder If hot work: 1. Hot work permit 2. Portable blower 3. Fire extinguisher near opening	MONTHLY (INSPECTION, MAINTENANCE)
										NO ENTRY PERMITTED WHEN MODULE IS IN USE		
		When down: 1. Air monitoring must be within acceptable limits 2. Lock out fans and augers 3. If CO >50PPM or if any hot work is done, use positive pressure ventilation and full permit entry procedures										
		USE EXTREME CAUTION DURING HOT WORK NEAR BAGS										

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#49198-450 (#37) #49198-460 (#38) #49198-470 (#39) #49198-480 (#40) PREHEAT COLLECTORS	NON-PERMIT	<ol style="list-style-type: none"> 1. Possible carbon monoxide 2. Dusty atmosphere 3. Moving machinery (fan, auger, butterfly valve) 	Any entry: 1. Air monitor 2. Lock outs 3. Portable ladder If hot work: 1. Hot work permit 2. Portable blower 3. Fire extinguisher near opening	MONTHLY (INSPECTION, MAINTENANCE)
		<p>NO ENTRY PERMITTED WHEN MODULE IS IN USE</p> <p>When down:</p> <ol style="list-style-type: none"> 1. Air monitoring must be within acceptable limits 2. Lock out fans and augers 3. If CO >50PPM or if any hot work is done, use positive pressure ventilation and full permit entry procedures <p>USE EXTREME CAUTION DURING HOT WORK NEAR BAGS</p>		
#49198-400 (#41) #49198-500 (#42) #49198-510 (#43) #49198-520 (#44) #50S, #50C, #50N, #51S, #51C, #51N, #52S, #52N, #53S, #53N, #54S, #54N, #55 MOLDING COLLECTORS	NON-PERMIT	<ol style="list-style-type: none"> 1. Possible carbon monoxide 2. Dusty atmosphere 3. Moving machinery (fan, auger, butterfly valve) 	Any entry: 1. Air monitor 2. Lock outs 3. Portable ladder If hot work: 1. Hot work permit 2. Portable blower 3. Fire extinguisher near opening	MONTHLY (INSPECTION, MAINTENANCE)
		<p>NO ENTRY PERMITTED WHEN MODULE IS IN USE</p> <p>When down:</p> <ol style="list-style-type: none"> 1. Air monitoring must be within acceptable limits 2. Lock out fans and augers 3. If CO >50PPM or if any hot work is done, use positive pressure ventilation and full permit entry procedures <p>USE EXTREME CAUTION DURING HOT WORK NEAR BAGS</p>		
#49198-530 (#45) #49198-540 (#46) #49198-550 (#47) #49198-560 (#48) #49198-570 (#49) PROCESS COLLECTORS	NON-PERMIT	<ol style="list-style-type: none"> 1. Possible carbon monoxide 2. Dusty atmosphere 3. Moving machinery (fan, auger, butterfly valve) 	Any entry: 1. Air monitor 2. Lock outs 3. Portable ladder If hot work: 1. Hot work permit 2. Portable blower 3. Fire extinguisher near opening	MONTHLY (INSPECTION, MAINTENANCE)
		<p>NO ENTRY PERMITTED WHEN MODULE IS IN USE</p> <p>When down:</p> <ol style="list-style-type: none"> 1. Air monitoring must be within acceptable limits 2. Lock out fans and augers 3. If CO >50PPM or if any hot work is done, use positive pressure ventilation and full permit entry procedures <p>USE EXTREME CAUTION DURING HOT WORK NEAR BAGS</p>		

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TRUCK SCALE PIT	NON-PERMIT	Electrical	Air monitor	WEEKLY or AS NEEDED (INSPECTION, CLEANING, OR REPAIRS)
		Space will become non-permit providing: 1. No hot work is done 2. Entrance doors are left open to ventilate space 3. No other hazards are introduced		