

Space Identification		Page 1 of 2
Department: <i>CAMSHAFTS B-12</i>	Machine Number: <i>12345</i>	Description: <i>OBERLIN FILTER</i>
Entry Purpose:		Date:

Hazardous Atmospheres									
	Range	Required	Reading 1	Reading 2	Reading 3	Reading 4	Reading 5	Reading 6	Reading 7
O ₂	19.5-23.5	<i>Yes</i>							
LEL	10% LEL	<i>Yes</i>							
H ₂ S	10 ppm	<i>Yes</i>							
CO	NA	<i>NA</i>							
Other	NA								
Gas Detector Model									

Hazards and Controls			
Type		Yes (describe)/No	Isolated/Controlled (describe)
Entrap	Inwardly Sloping Walls	<i>No</i>	<i>NA</i>
	Sloping Floor	<i>No</i>	<i>NA</i>
Engulf	Dry Storage (grain, sand)	<i>No</i>	<i>NA</i>
	Liquid Storage	<i>Yes</i>	<i>If entering tank properly drain and collect Coolant fluid</i>
Energy Sources	Lockout/Energy Control Hazardous Energy Sources	<i>See Other Side of This Page for Details</i>	<i>Isolate all items listed</i>
Work	Welding, cutting, brazing		
	Chemicals, painting, degreasing		
Other	Ingress and Egress	<i>Unit has high walls making it difficult to get in and out of tank</i>	<i>Appropriate ladders (one outside and one inside) positioned and fixed in place to insure no removal while inside.</i>
	Communications Equipment	<i>Yes</i>	<i>2-Way radios one for each entrant and one for each attendant, set to channel 4. Location of nearest plant phone north side of column B-13.</i>

For the purposes of this entry:

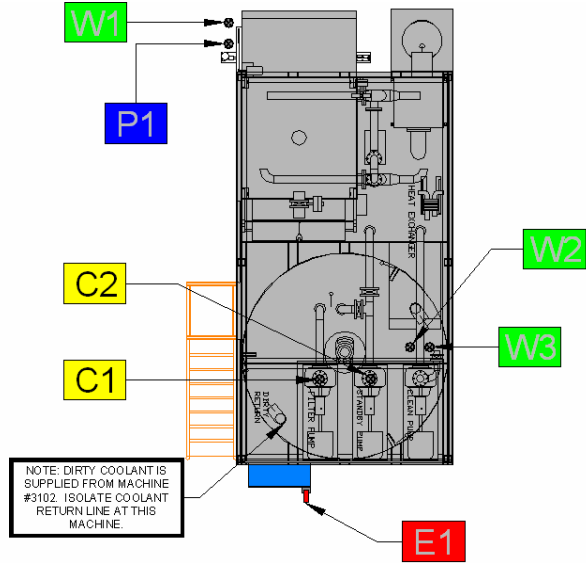
- All identified hazards have been isolated or eliminated and space is a NON-PERMIT REQUIRED.
- The identified hazards will be controlled through continuous forced air ventilation and air monitoring.
- The space is permit-required. Complete information below. Contact EHSS for assistance.

Supervisor's Name	Signature	Date
Permit Information		
Start Time:	End Time:	
Authorized Entrants	Authorized Attendants	
	Standby Safety Personnel	

Notify emergency response personnel as appropriate by dialing **9999** from any plant phone.

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Lockout/Energy Control



Lockout/Energy Control Procedure			
- Bring equipment to a neutral state utilizing normal stopping procedures. - Isolate each energy source affecting your work to be performed. If uncertain, isolate all items listed. - Prior to the initiation of any lockout/energy control procedure, notify all AFFECTED personnel in the work area.			
Tag	Description	Procedure	Verification
E1	Electrical - 480 VAC Main Disconnect	Place disconnect in the off position, attach lockout device(s).	Test the disconnect to be sure it cannot be moved to the "on" position. Attempt to activate system, no activity should occur.
P1	Pneumatic - 100 PSI Main Dump Valve	Push valve to dump position, attach lockout device(s).	Test the valve to be sure it cannot be moved to the "open" position. Verify gage goes from operating PSI to zero PSI.
Note	Coolant Supply Shutoff Valve Into Pressure Filter Unit	Close return valve C3 on machine #3102.	Visually confirm valve is closed and no fluid movement into filter unit.
C1	Coolant - 40 PSI Supply Out to Machine #3102	Turn valve handle to the closed position, attach lockout device(s).	Visually insure valve is closed and locked out. Test the valve to be sure it cannot be moved to the "open" position.
C2	Coolant - 40 PSI Supply Out to Machine #3102	Turn valve handle to the closed position, attach lockout device(s).	Visually insure valve is closed and locked out. Test the valve to be sure it cannot be moved to the "open" position.
W1	City Water - 30 PSI Supply Shutoff Valve	Turn valve handle to the closed position, attach lockout device(s).	Visually insure valve is closed and locked out. Test the valve to be sure it cannot be moved to the "open" position.
W2	Process Water - 60 PSI Cooling Supply Shutoff Valve	Turn valve handle to the closed position, attach lockout device(s).	Visually insure valve is closed and locked out. Test the valve to be sure it cannot be moved to the "open" position.
W3	Process Water - 60 PSI Cooling Return Shutoff Valve	Turn valve handle to the closed position, attach lockout device(s).	Visually insure valve is closed and locked out. Test the valve to be sure it cannot be moved to the "open" position.
Equipment is Now Locked Out - Perform Service and/or Maintenance			
Follow Plant's Release From Lockout Procedure			

Preparation

Yes	N/A		Yes	N/A	
<input type="checkbox"/>	<input type="checkbox"/>	Entry area free of debris and objects	<input type="checkbox"/>	<input type="checkbox"/>	No compressed cylinders in space
<input type="checkbox"/>	<input type="checkbox"/>	Warning barriers and signs in place	<input type="checkbox"/>	<input type="checkbox"/>	Host employer and/ or contractor notified
<input type="checkbox"/>	<input type="checkbox"/>	Atmospheric monitoring conducted	<input type="checkbox"/>	<input type="checkbox"/>	Entry and emergency procedures reviewed
<input type="checkbox"/>	<input type="checkbox"/>	Other hazards identified and isolated	<input type="checkbox"/>	<input type="checkbox"/>	Personnel have been trained
<input type="checkbox"/>	<input type="checkbox"/>	Hot work permitted	<input type="checkbox"/>	<input type="checkbox"/>	Personnel informed of potential hazards
<input type="checkbox"/>	<input type="checkbox"/>	Energy sources isolated/locked out	<input type="checkbox"/>	<input type="checkbox"/>	Electrical equipment is grounded
<input type="checkbox"/>	<input type="checkbox"/>	Confined space drained and flushed	<input type="checkbox"/>	<input type="checkbox"/>	

Equipment Required

Yes	N/A		Yes	N/A	
<input type="checkbox"/>	<input type="checkbox"/>	Forced air or exhaust ventilation	<input type="checkbox"/>	<input type="checkbox"/>	Non-sparking tools used
<input type="checkbox"/>	<input type="checkbox"/>	Ground fault interrupters (GFCI)	<input type="checkbox"/>	<input type="checkbox"/>	Low voltage lighting used
<input type="checkbox"/>	<input type="checkbox"/>	Retrieval Equipment	<input type="checkbox"/>	<input type="checkbox"/>	Equipment rated for explosive atmospheres
<input type="checkbox"/>	<input type="checkbox"/>	Fire Extinguishers	<input type="checkbox"/>	<input type="checkbox"/>	Communication Equipment

Personal Protective Equipment Required

Yes	N/A		Yes	N/A	
<input type="checkbox"/>	<input type="checkbox"/>	Hard Hat	<input type="checkbox"/>	<input type="checkbox"/>	Protective Clothing
<input type="checkbox"/>	<input type="checkbox"/>	Eye/Face Protection	<input type="checkbox"/>	<input type="checkbox"/>	Hearing Protection
<input type="checkbox"/>	<input type="checkbox"/>	Gloves	<input type="checkbox"/>	<input type="checkbox"/>	Retrieval Harness
<input type="checkbox"/>	<input type="checkbox"/>	Safety Boots	<input type="checkbox"/>	<input type="checkbox"/>	Respirator