

Burson Roof Monitors -- Permit Required Confined Space Entry Permit

1. Burson Roof Monitors ENTRY PROCEDURE AND PERMIT **All Shaded areas must be completed by Entry Supervisor or Entrant**	7. Communication method used by attendants and entrants (Check all that apply) <input type="checkbox"/> Radio <input type="checkbox"/> Voice <input type="checkbox"/> Other:
2. Work to be Performed:	8. Confined Space Rescue <input type="checkbox"/> The assigned confined space attendant is responsible for evacuating entrants in the event of an emergency by means of vocal communication or retrieval equipment used for the entry. At no time will the attendant enter the confined space. In the event the attendant is unable to evacuate the entrant(s) the Charlotte Fire Department will be notified by UNC Charlotte Police Dispatch at 704-687-2200 to provide rescue assistance. Upon the arrival of rescue personal the attendant should brief the rescuers of any notable information.

3. Date Issued: / / Time Issued: : <input type="checkbox"/> a.m. <input type="checkbox"/> p.m.	
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4. Permit Space Hazards (X = Potential Hazard or Testing Rqmt.) <table border="1" style="width:100%; border-collapse: collapse;"> <tr><td style="text-align: center;">X</td><td>Oxygen - hazardous when less than or equal to 19.5% OR greater than or equal to 23.5 %.</td></tr> <tr><td style="text-align: center;">X</td><td>Flammable Gases or Vapors - hazardous when greater than 10% of LFL / LEL.</td></tr> <tr><td style="text-align: center;">X</td><td>Hydrogen Sulfide - hazardous when greater than 10 PPM</td></tr> <tr><td style="text-align: center;">X</td><td>Carbon Monoxide - hazardous when greater than 50 PPM (always look for when welding or near a fuel combustion source (cars, utility carts, etc)</td></tr> <tr><td style="text-align: center;">X</td><td>Other Toxics: VAPORS FROM LAB WHEN DUCTS ARE OPEN</td></tr> <tr><td style="text-align: center;">X</td><td>Mechanical Hazards (Pneumatic, Hydraulic, Electrical, Chemical, Steam, Falling Objects, Etc.)</td></tr> <tr><td style="text-align: center;">X</td><td>Engulfment Potential</td></tr> <tr><td style="text-align: center;">X</td><td>Physical Hazards - (bees, insects, spiders, heat during summer).</td></tr> <tr><td style="text-align: center;">X</td><td>Confined Space Configuration, Layout or Arrangement</td></tr> </table>	X	Oxygen - hazardous when less than or equal to 19.5% OR greater than or equal to 23.5 %.	X	Flammable Gases or Vapors - hazardous when greater than 10% of LFL / LEL.	X	Hydrogen Sulfide - hazardous when greater than 10 PPM	X	Carbon Monoxide - hazardous when greater than 50 PPM (always look for when welding or near a fuel combustion source (cars, utility carts, etc)	X	Other Toxics: VAPORS FROM LAB WHEN DUCTS ARE OPEN	X	Mechanical Hazards (Pneumatic, Hydraulic, Electrical, Chemical, Steam, Falling Objects, Etc.)	X	Engulfment Potential	X	Physical Hazards - (bees, insects, spiders, heat during summer).	X	Confined Space Configuration, Layout or Arrangement	9. Authorized Entrants (List by name or attach roster)
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5. Additional Permits or Forms (Please attach if required) Hot Work Permit: <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A LOTO / Hazardous Energy Control Procedure: <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A Other:	10. Authorized Attendants (List by name)
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6. Equipment Required for Entry & Work (Check box when complete) <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:20%;"><input type="checkbox"/> PPE</td> <td>Protective gloves necessary when interior duct surfaces may be contacted due to chemical residue. Long hair & loose clothing must be controlled due to rotational hazards present.</td> </tr> <tr> <td><input type="checkbox"/> Atmospheric Testing</td> <td>4 Gas Meter required if any kind of atmospheric hazard is present or created (burning, cutting, welding, solvent usage) Use meter when duct work is open/disassembled for service in work area. Continuous monitoring is required throughout the duration of the entry.</td> </tr> <tr> <td><input type="checkbox"/> Respiratory Protection</td> <td>Not required under normal operations. If duct work is opened or is emitting vapors/fumes from labs - test atmosphere with 4 gas meter</td> </tr> <tr> <td><input type="checkbox"/> Ventilation Equipment</td> <td>Not required for normal work. Two people are required for entry into these areas. Radio communication is required.</td> </tr> <tr> <td><input type="checkbox"/> Rescue Equipment</td> <td>Not required for normal work. At least two persons are required for entry into these areas. Radio communication is required to be available.</td> </tr> </table>	<input type="checkbox"/> PPE	Protective gloves necessary when interior duct surfaces may be contacted due to chemical residue. Long hair & loose clothing must be controlled due to rotational hazards present.	<input type="checkbox"/> Atmospheric Testing	4 Gas Meter required if any kind of atmospheric hazard is present or created (burning, cutting, welding, solvent usage) Use meter when duct work is open/disassembled for service in work area. 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Labs must be notified that work is going to be completed on their lab ventilation systems (fume hoods, inlet ducts) so that work can be stopped within the hoods.</td></tr> <tr><td><input type="checkbox"/></td><td>Inspect all required equipment, tools and PPE prior to entry. Barricade the area to prevent unauthorized entry or access. Setup necessary equipment for entry operations. At least two persons are required to be present when entry is made and work is to be completed in Burson Roof Monitor areas. Radio communication is required to be available for all entrants to these spaces.</td></tr> <tr><td><input type="checkbox"/></td><td>Ensure that all Hazardous Energy is isolated per the specific Hazardous Energy Control Procedure. All loose clothing and long hair, if applicable must be tied back to prevent potential entanglement in rotating machinery.</td></tr> <tr><td><input type="checkbox"/></td><td>Sign in Authorized Entrants in Step 9 and Sign in Attendants in Step 10.</td></tr> <tr><td><input type="checkbox"/></td><td>Take a preliminary atmospheric reading with approved 4 gas meter and record reading on Step 12. Atmosphere should be continuously tested during entry. Periodically record sample readings in Step 12.</td></tr> <tr><td><input type="checkbox"/></td><td>Upon eliminating or controlling all hazards and the Entry Supervisor signing Step 13, proceed to make entry.</td></tr> </table>	<input type="checkbox"/>	Notify chemistry department of service interruption to fume hoods and complete the Confined Space Entry Permit and any other required permits and forms. 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	Time:	Time:	Time:	Time:	Time:	Time:
12. Atmosphere Testing Record Acceptable Conditions	Entry #1 Results	Entry #2 Results	Entry #3 Results	Entry #4 Results	Entry #5 Results	Entry #6 Results
CH4 - Less than 10% of LEL / LFL						
OXY - Oxygen Range - Minimum allowable = 19.6% to Maximum allowable = 23.4%						
H2S - Hydrogen Sulfide - < than 10 PPM						
CO - Carbon Monoxide - < than 35 PPM						
Other Toxic:						
Tester Initials						

13. Authorization by Entry Supervisors					
I certify that all required precautions have been taken and necessary equipment is provided for safe entry and work in the Burson Roof Monitor confined space.					
Printed Name	Signature	Date	Time	<input type="checkbox"/> a.m. <input type="checkbox"/> p.m.	

14. Permit Cancellation (Complete at the end of job not to exceed 24 hours)	Date	Time	<input type="checkbox"/> a.m. <input type="checkbox"/> p.m.
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This permit must be posted at the job site -- One Copy to Dept File and One Copy to EH&S Office (Fax 7-5302 or EHS Building)