

**Burson Roof Monitors -- Permit Required Confined Space Entry Permit**

## 1. Burson Roof Monitors Entry Procedure and Permit

**\*\*All shaded areas must be completed by the Entry Supervisor or Entrant\*\***

<b>2. Work to be Performed and Location:</b>	<b>3. Date Issued:</b> /     /  <b>Time Issued:</b> : <input type="checkbox"/> a.m. <input type="checkbox"/> p.m.
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**4. Permit Space Hazards** (X = Potential Hazard or Testing Requirement)

<b>X</b>	Oxygen - hazardous when less than or equal to 19.5% <b>OR</b> greater than or equal to 23.5 %.	<b>X</b>	Mechanical Hazards (Pneumatic, Hydraulic, Electrical, Chemical, Steam, Falling Objects, Etc.)
<b>X</b>	Flammable Gases or Vapors - hazardous when greater than 10% of LFL / LEL.		Engulfment Potential
<b>X</b>	Hydrogen Sulfide - hazardous when greater than 10 PPM	<b>X</b>	Physical Hazards - (bees, insects, spiders, heat during the summer)
	Carbon Monoxide - hazardous when greater than 50 PPM (always look for when welding or near a fuel combustion source (cars, utility carts, etc.)		Confined Space Configuration, Layout or Arrangement
<b>X</b>	Other Toxics: vapors from lab when ducts are open		

**5. Additional Permits or Forms** (Please attach if required)

Hot Work Permit: ☐ YES ☐ NO ☐ N/A      LOTO / Hazardous Energy Control Procedure: ☐ YES ☐ NO ☐ N/A      Other:

**6. Equipment Required for Entry & Work** (Check box when complete)

<input type="checkbox"/> <b>PPE</b>	Protective gloves necessary due to chemical residue when interior duct surfaces may be contacted. Long hair and loose clothing must be controlled due to rotational hazards present.
<input type="checkbox"/> <b>Atmospheric Testing</b>	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.
<input type="checkbox"/> <b>Respiratory Protection</b>	Not required under normal operations. If duct work is open or is emitting vapors/fumes from labs, test atmosphere with 4-gas meter.
<input type="checkbox"/> <b>Ventilation Equipment</b>	Not required for normal work. Two people are required for entry into these areas. Radio communication is required.
<input type="checkbox"/> <b>Rescue Equipment</b>	Not required for normal work. At least two people are required for entry into these areas. Radio communication is required to be available.

7. Communication method used by attendants and entrants (Check all that apply)		8. Confined Space Rescue
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<input type="checkbox"/>	<b>Radio</b>	<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 personnel, the attendant should brief the rescuers of any notable information.
<input type="checkbox"/>	<b>Voice</b>		
<input type="checkbox"/>	<b>Other</b>		

9. Authorized Entrants (List by name)		10. Authorized Attendants (List by name)	
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#### 11. Preparation for Entry (Check boxes when complete)

<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. 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.
<input type="checkbox"/>	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.
<input type="checkbox"/>	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.
<input type="checkbox"/>	Sign in Authorized Entrants in Step 9 and Sign in Attendants in Step 10.
<input type="checkbox"/>	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.
<input type="checkbox"/>	Upon eliminating or controlling all hazards and the Entry Supervisor signing Step 13, proceed to make entry.

12. Atmosphere Testing Record Acceptable Conditions	Pre-Entry Results	Entry #1 Results	Entry #2 Results	Entry #3 Results	Entry #4 Results	Entry #5 Results
Time of Sampling						
CH <sub>4</sub> – Methane - Less than 10% of LEL / LFL						
O <sub>2</sub> - Oxygen Range - Minimum allowable = 19.6% to Maximum allowable = 23.4%						
H <sub>2</sub> S - 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 this Burson roof monitor confined space.

Printed Name \_\_\_\_\_ Signature \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_ ☐ a.m. ☐ 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 Department's File and One Copy to EHS Office (Fax 7-5302 or EHS Building)