AIR HANDLERS -- Permit Required Confined Space Entry Permit

1. *Air Handlers* ENTRY PROCEDURE AND PERMIT

Air handlers are a permit required confined space if atmosphere inside air handler is changed by welding, cutting, burning or the use of solvents or cleaners that cause vapors or fumes <u>All Shaded areas must be completed by Entry Supervisor or Entrant**</u>**

2. Work to be Performed:

3. Date Issued: / /

Time Issued: : □ a.m. □ p.m.

4. Permit Space Hazards (X = Potential Hazard or Testing Rqmt.)

	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.
	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)
	Other Toxics: Example -- Coil Cleaning Chemicals, Solvents, Welding fumes
X	Mechanical Hazards (Pneumatic, Hydraulic, Electrical, Chemical, Steam, Falling Objects, Etc.)
	Engulfment Potential
	Physical Hazards
	Confined Space Configuration, Layout or Arrangement

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)

☐ **PPE**	Safety glasses/goggles to prevent splashes of water and dirt/sediment into eyes while working in wet areas, such as evaporator coils and pans. Coil cleaning chemicals/solvents require specialized gloves/PPE….see MSDS.
☐ **Atmospheric Testing**	4 Gas Meter is required in Air Handlers when the atmosphere will be changed by welding, cutting, burning or solvent/chemical use that will cause fumes/vapors. Continuous monitoring is required throughout the duration of the entry.
☐ **Respiratory Protection**	Not required under normal operations. If 4 gas meter indicates that atmospheric conditions are not safe do not enter space without additional ventilation.
☐ **Ventilation Equipment**	Portable ventilation should be used when welding, cutting, burning or solvent/chemical usage produces vapors/fumes in an air handler. Also ventilate when 4 gas meter indicates that atmosphere readings are not normal.
☐ **Rescue Equipment**	Not required for normal work.

7. Communication method used by attendants and entrants (Check all that apply)

☐	Radio
☐	Voice
☐	Other:

8. Confined Space Rescue

☐	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.

9. Authorized Entrants (List by name or attach roster)

10. Authorized Attendants (List by name)

11. Preparation for Entry (Check boxes when complete)

☐	Notify affected department of service interruption and complete the Confined Space Entry Permit and any other required permits and forms.
☐	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
☐	All electrical service to the air handling unit fan/motor and associated equipment must be de-energized and LO/TO. Ensure that all Hazardous Energy is isolated per the specific Hazardous Energy Control Procedure. Rotating fan blades must be chocked in stationary position if hazard of rotation exist during work .
☐	Sign in Authorized Entrants in Step 9 and Sign in Attendants in Step 10.
☐	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. Open all access doors to increase ventilation to the work area, if possible
☐	Upon eliminating or controlling all hazards and the Entry Supervisor signing Step 13, proceed to make entry.

	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 this air handler 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**	**□a.m. □p.m.**

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)