

### ***Diesel and Fuel Oil Tanks -- Permit Required Confined Space Entry Permit***

## 1. Diesel and Fuel Oil Tanks Entry Procedure and Permit

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

|                                       |
|---------------------------------------|
| 2. Work to be Performed and Location: |
|---------------------------------------|

3. Date Issued:        /        /

Time Issued:        :        ☐ a.m. ☐ p.m.

Time Issued: : ☐ a.m. ☐ p.m.

#### 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 %.  |  | 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  |
|          | Hydrogen Sulfide - hazardous when greater than 10 PPM   |  | 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   |
|          | Other Toxics:   |  |   |

**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>                    | Eye protection and body harness. Tyvek suit and gloves if residual petroleum materials remain in tank and contact with them is a possibility.   |
| <input type="checkbox"/> <b>Atmospheric Testing</b>    | 4-Gas Meter required for testing. Test atmosphere in the tank by checking the atmosphere at all levels from the bottom to the top of the space. |
| <input type="checkbox"/> <b>Respiratory Protection</b> | Not required for this space under normal atmospheric conditions. Ventilation required before entry.   |
| <input type="checkbox"/> <b>Ventilation Equipment</b>  | Full ventilation is required before and during entry. All hatchways should be opened to allow for cross ventilation.                            |
| <input type="checkbox"/> <b>Rescue Equipment</b>       | Set up retrieval device to pull out entrant in the event of an emergency. Entrant must wear harness and be connected to the retrieval device.   |

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

|                          |       |
|--------------------------|-------|
| <input type="checkbox"/> | Radio |
| <input type="checkbox"/> | Voice |
| <input type="checkbox"/> | Other |

## 8. Confined Space Rescue

|                          |  |
|--------------------------|--|
| <input type="checkbox"/> | <p>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.</p> |
|--------------------------|--|

**9. Authorized Entrants** (List by name)

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|--|
|  |
|--|

**10. Authorized Attendants** (List by name)

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### 11. Preparation for Entry (Check boxes when complete)

|                          |  |
|--------------------------|--|
| <input type="checkbox"/> | Notify affected department of service interruption and complete the Confined Space Entry Permit and any other required permits and forms. All diesel and fuel oil residual must be drained from the tank before entry.   |
| <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.  |
| <input type="checkbox"/> | Ensure that all hazardous energy is isolated per the specific Hazardous Energy Control Procedure.  |
| <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. Air ventilation is required before and during entry into the tank. All hatchways should be opened to allow for cross ventilation. |
| <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:   |                   |                  |                  |                  |                  |                  |
| <b>Tester Initials</b>   |                   |                  |                  |                  |                  |                  |

### 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 fuel tank 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.

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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)