

CITY OF NEW LONDON- Confined Space Entry Policy

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Purpose

The purpose of this written program is protect the health and safety of the City of New London employees who enter confined spaces and/or are assigned to serve as attendants or rescue personnel. This program is also intended to insure compliance with the requirements of OSHA 29 CFR 1910.146 and Department of Commerce Chapter 32.28 & 32.29.

Objectives

1. To prevent employee injury, illness, or death from confined space hazards.
2. To establish methods and procedures for controlling confined space activity while performing inspections, repairs, maintenance or other work related activities.
3. To comply with OSHA 29 CFR 1910.146 and COMM 32 of the Wisconsin Administrative Code.

Application

This program applies to:

1. All employees who are authorized to enter a confined space,
2. All employees assigned to serve as attendants and/or provide assistance during a confined space emergency rescue, and
3. To employees who serve as confined space entry supervisors and/or confined space entry program administrators.

Definitions

Acceptable Entry Conditions — conditions that must exist in a permit space to allow entry and to ensure that employees involved with a permit-required confined space can safely enter and perform work.

Attendant –a trained individual stationed outside one or more confined spaces who monitors the authorized entrants and who performs all attendant duties assigned herein.

Authorized Entrant –an employee who is authorized to enter a confined space.

Confined Space — a space that:

1. Is large enough and so configured that an employee can enter and perform work;
2. Has limited or restricted means for entry or exit, such as a tank, vessel, silo, storage bin, hopper, vault, or pit; and

3. Is not designed for continuous employee occupancy.

Engulfment –the surrounding and effective capture of a person by a liquid or finely divided flowable solid substance that can be aspirated to cause death by filling or plugging the respiratory system or that can exert enough force on the body to cause death by strangulation, constriction or crushing.

Entry –the action by which a person passes through an opening into a confined space. Entry includes ensuing work activities in that space and is considered to have occurred as soon as any part of the entrant’s body breaks the plane of an opening into the space.

Entry Permit –a written permit that identifies a confined space where work is to be completed and potential hazards that need to be evaluated and controlled before authorization is given for entry. A sample permit/checklist is found in at the end of this policy.

Entry Supervisor –person responsible for:

1. Determining if acceptable conditions are present before entering a permit space;
2. Authorizing entry;
3. Coordinating and supervising all entry operations; and
4. Terminating entry.

Hazardous Atmosphere –an atmosphere that may expose employees to the risk of death, incapacitation, impairment of ability to self-rescue, injury, or acute illness from one or more of the following causes:

1. Flammable gases, vapor or mist in excess of 10% of its lower explosive limit;
2. Airborne combustible dust at a concentration that meets or exceeds its lower explosive limit; or dust that obscures vision at 10 feet or less;
3. Atmospheric oxygen concentrations below 19.5% or above 23.5%;
4. Atmospheric concentrations of any substance listed in Subpart G, Occupational Health and Environmental Control, or in Subpart Z of 29 CFR 1910 substances for which a dose or PEL is published and could result in employee exposure in excess of its dose or PEL;
5. Any other atmospheric condition that is immediately dangerous to life or health.

Immediately Dangerous to Life or Health (IDLH) — any condition that poses an immediate threat to life, or a delayed threat to life, or that would cause irreversible adverse health effects or that would interfere with an individual’s ability to escape unaided from a confined space.

Lower Explosive Limit (LEL) — the lowest concentration of a gas or vapor, expressed in percent by volume in air, that burns or explodes if an ignition source is present at room temperature.

Non-Permit Confined Space — a confined space that does not contain or have the potential to contain an atmospheric hazard or any other serious safety or health hazard.

Permit-Required Confined Space –a confined space that has one or more of the following characteristics:

1. Contains or has a reasonable potential for hazardous atmospheres.
2. Contains a material that has the potential for engulfment.
3. Is internally configured so an employee could become trapped or asphyxiated by inwardly converging walls or a floor that slopes downward into a smaller cross-section.
4. Contains any other recognized serious safety or health hazard.

Rescue Personnel –personnel designated to rescue employees from permit spaces.

Retrieval System –equipment used for a non-entry rescue of persons from permit spaces (i.e., tripod).

Classification of Confined Spaces

The Department Head or his/her designee is responsible for classifying confined spaces in their respective departments. The Department Head or his/her designee is also responsible for employee compliance with this program. Classifications are based upon the air quality and the sources of possible hazards as follows:

Non-Permit Confined Space

A non-permit confined space is a confined space with an atmosphere within the following limits:

1. Oxygen content of at least 19.5% or more, but not more than 23.5%;
2. A hydrogen sulfide content of less than 10 parts per million (ppm) or a carbon monoxide content of less than 35 ppm;
3. A combustible gas content less than 10% of the lower explosive level (LEL);
4. An exposure level, for any hazardous substance determined to be present, which is at or below the Threshold Limit Value (TLV), which is the short term exposure limit for any substance as determined and published by the American Conference of Governmental Industrial Hygienists or the short term exposure limits found in 29 CFR 19 10.1000.
5. And the only source of contamination expected or likely to affect the atmosphere is the employee's presence or the employee's activities.

Permit-Required Confined Space

1. A permit-required confined space is a confined space that has one or more of the following characteristics:
2. Contains a hazardous atmosphere;
3. Contains a material that has the potential for engulfment of an authorized entrant;
4. Has an internal configuration that could cause an authorized entrant to be trapped or asphyxiated by inwardly converging walls or by a floor which slopes downward and tapers to a smaller cross-section; or
5. Contains any other serious safety or health hazard.

Confined Space Reclassification

A confined space may be reclassified from a permit-required confined space to a non-permit confined space if the confined space poses no atmospheric hazard and if all hazards within the space are eliminated without entry into the space. The permit-required confined space may be reclassified as a non-permit confined space for as long as the non-atmospheric hazards are eliminated.

If it is necessary to enter a permit-required confined space to eliminate hazards, other than explosive hazards, the entry must follow permit-required confined space entry procedures. However, if after entry

the testing and inspection of the permit-required confined space demonstrates that the hazards within the permit-required confined space have been eliminated, the space may be reclassified as a non-permit confined space as long as the hazards remain eliminated.

Signs

The City of New London recognizes that by being a municipal employer there are confined spaces present in the workplace. The Department Head or his/her designee shall therefore inform employees by posting legible signs at the entrances to the confined spaces. Signs are not however, required at manholes located in sewer systems or in public areas. To inform employees, a sign should read “DANGER - NON-PERMIT CONFINED SPACE - DO NOT ENTER UNLESS AUTHORIZED or DANGER - PERMIT REQUIRED CONFINED SPACE - DO NOT ENTER UNLESS AUTHORIZED”, or other similar language. (Signs must conform with the requirements in OSHA 29 CFR 1910.145)

Air Monitoring

No person may enter a confined space until the atmosphere of the confined space is sampled and air quality is determined for all levels and all areas of the confined space. Sampling shall be conducted in accordance with this section. Sampling devices shall be used to sample the atmosphere of a confined space. When entry to a confined space is by means of a manhole, a probe shall be inserted through a pick-hole of the manhole cover, or the manhole cover shall be pried open on the downwind side to allow just enough room for the insertion of the device.

The atmosphere of each confined space shall be sampled for:

1. Oxygen
2. Hydrogen sulfide or carbon monoxide, depending on the hazard present;
3. Combustible gases; and
4. Any hazardous substance which an employee may work with or be exposed to and which the City of New London has reason to believe may be present as evidenced by past experience or by its configuration or confined space properties.

Note: Authorized entrants and/or their authorized representatives shall be provided an opportunity to observe the atmospheric testing of the confined space that is conducted prior to entry and subsequent testing.

Sampling Device

The sampling device shall have a direct readout, which can simultaneously test for 1-3 listed above, without manual switching. The sampling device shall be equipped with audible and visible warning devices, which indicate when an atmosphere of a confined space has:

1. An oxygen content of less than 19.5% or more than 23.5%;
2. A hydrogen sulfide content of 10 parts per million (ppm) or more, or a carbon monoxide content of 35 ppm or more;

3. A combustible gas content of 10% or more of the lower explosive limit (LEL).

The sampling device used in confined spaces shall be intrinsically safe for use in combustible atmospheres.

Calibration

The sampling device shall be calibrated relative to oxygen content of the ambient air at the time of sampling. Calibration of the sampling device relative to the oxygen content shall be performed where the 20.9% natural content of oxygen in the air is most likely to occur, which would prohibit oxygen calibration near a confined space opening. If the sampling device has a zero set it shall be zeroed in a clean atmosphere.

Calibration of the sampling device by the introduction of a known concentration shall be conducted as often as recommended by the manufacturer, or at least every six months. Bump testing or exciting the sensors with gas shall not be a substitute for calibration.

Procedures

No employee may enter or work in a confined space, unless the entry or work is in compliance with the provisions of this policy. Due to the hazardous nature of confined spaces, the Department Head shall carefully monitor and control such activities performed by its employees.

The following clearly defines entry duties and procedures of each employee.

Non-Permit Confined Space Entry

1. Prior to entry the atmosphere within the space shall be sampled for oxygen, hydrogen sulfide or carbon monoxide, and combustible gas content. These monitoring readings shall be recorded on a pre-entry permit found at the end of this policy.
2. Employees completing the permit and determining if acceptable entry conditions are present are hereby designated as the "Entry Supervisor" and have the duties of authorizing entry, overseeing entry and terminating entry. *Note: An entry supervisor may serve as the attendant or as the entrant, as long as that person is trained in accordance with this program and equipped as required for the role. Also, the duties of the entry supervisor may be passed from one qualified individual to another during the course of an entry.*
3. Continuous monitoring of the atmosphere within the authorized entrant's immediate area shall be done while in the confined space.
4. While in the confined space and monitoring shows the air quality has:
 - A. An oxygen content of less than 19.5% or more than 23.5%.
 - B. A hydrogen sulfide content greater than 10 parts per million (ppm) or carbon monoxide content greater than 35 ppm.
 - C. A combustible gas content or 10% or more of the lower explosive limit (LEL); and
 - D. An exposure level, for any hazardous substance determined to be present, which is above the Threshold Limit Value (TLV), which is the short term exposure limit for any substance as

determined and published by the American Conference of Governmental Industrial Hygienists, **the authorized entrant shall exit the confined space and the confined space shall be reclassified as a Permit-Required Confined Space.**

5. Ventilation may not be used in lieu of monitoring samples.
6. If the Non-Permit Confined Space involves work in a trench, shaft, tunnel, caisson or appurtenance that is over 5 feet high in depth a second person must be present at the surface.

Ventilation and Supplied Air

A confined space with an atmosphere, which cannot be brought within the limits listed above, may be ventilated and may be entered when sampling indicates an atmosphere is back within those limits.

If after ventilation of a confined space and the oxygen content, hydrogen sulfide or carbon monoxide content or the hazardous substance determined to be present can not be brought within the limits specified under a non-permit confined space, the space may be entered if a self-contained positive pressure breathing apparatus (SCBA) or a supplied air line respirator is used.

A confined space, after the introduction of ventilation, which still contains a combustible gas content of 10% or greater of the LEL, may not be entered even with supplied air.

Permit-Required Confined Space Entry

1. Prior to entry of a Permit-Required Confined Space and in addition to sampling for oxygen content, combustible gas content and hydrogen sulfide or carbon monoxide, the Permit-Required Confined Space shall be sampled for any other hazardous substance that may be present or believed to be present. These monitoring readings shall be recorded on the pre-entry permit found at the end of this policy.
2. Employees completing the entry permit and determining if acceptable entry conditions are present are hereby designated as the "Entry Supervisor" and have duties of authorizing entry, overseeing entry and terminating entry. *Note: An entry supervisor may serve as the attendant or as the entrant, as long as that person is trained in accordance with this program and equipped as required for the role. Also the duties of the entry supervisor may be passed from one qualified individual to another during the course of an entry.*
3. Continuous monitoring of the atmosphere within the authorized entrant's immediate area shall be done while in the confined space.
4. While in the confined space and monitoring shows the air quality has:
 - An oxygen content of less than 19.5% or more than 23.5%.
 - A hydrogen sulfide content greater than 10 parts per million (ppm) or a carbon monoxide content greater than 35 ppm.
 - A combustible gas content or 10% or more of the lower explosive limit (LEL); and

- An exposure level, for any hazardous substance determined to be present, which is above the Threshold Limit Value (TLV), which is the short term exposure limit for any substance as determined and published by the American Conference of Governmental Industrial Hygienists,
the authorized entrant shall exit the confined space.

5. Ventilation may not be used in lieu of monitoring devices. An employee may not enter the space until forced ventilation has eliminated any hazardous atmosphere. If forced ventilation is to be used, it shall be so directed as to ventilate the immediate areas where an authorized entrant is or will be present within the space and shall continue until all entrant(s) have left the confined space. The air supply for the forced ventilation shall be from a clean source and may not increase the hazards in the confined space.
6. NO EMPLOYEE may enter the Permit-Required Confined Space without at least one (1) attendant stationed at the entrance of the confined space. A flagman who is directing traffic may not serve as the attendant. The attendant shall remain stationed outside the confined space for the duration of the entry.
7. Where entry into a confined space is made by means of a manhole or a top opening, a mechanical retrieval device shall be set up for rescue attempts prior to entry.
8. While in the confined space the authorized entrant shall have voice or other means of communication with the attendant.
9. An authorized entrant entering vertically into the confined space shall wear a full body harness secured to a retrieval line.
10. Any authorized entrant who makes horizontal movement into a confined space or who descends in such a manner as to make a mechanical retrieval device useless for a rescue attempt shall wear a full body harness.

Duties of the Department Head:

The responsibilities of this individual shall include:

1. Conducting/coordinating hazard assessments.
2. Determining the classification (permit required/non permit space and location of each confined space.
3. Coordinating the posting of appropriate danger/caution signs by each confined space.
4. Supervising the selection and use of respirators in conjunction with the Respiratory Protection Program.
5. Conducting an annual evaluation of the overall program to determine its continued effectiveness and report the findings to the Human Resource Coordinator.
6. Actively supporting the CSE program and providing funding to purchase equipment when needed.
7. Ensuring all assigned personnel are knowledgeable of all aspects of the CSE program.

8. Ensuring their employees comply with all elements of CSE program.
9. Ensuring appropriate PPE and equipment is properly utilized and maintained.

Duties of Entry Supervisor

1. Providing confined space entry personnel with a copy of the most current CSE Program and any future changes.
2. Knowing the hazards that may be encountered during entry and informing the entrants about the hazards, including information on the mode, signs, or symptoms and consequences of exposure.
3. Verifying that the proper atmospheric tests have been conducted and that all procedures and equipment are in place before signing the CSE Permit.
4. Assuring that the CSE Permit is completed prior to each entry.
5. Terminating the entry and canceling the permit when needed.
6. Verifying that rescue personnel are available and that the means for summoning them or other emergency personnel is available and operable in the event that an emergency occurs.
7. Removing unauthorized individuals who have entered or who attempt to enter the confined space.
8. Determining whenever responsibility for a permit space entry operation is transferred and at intervals dictated by the hazards and operations performed within the space, and that entry operations remain consistent with terms of the entry permit.
9. Maintaining completed entry permits, and equipment calibration records.
10. Providing employees an opportunity to observe the atmospheric testing of the confined space.

NOTE: The CSE Supervisor may also serve as an attendant or as an authorized entrant providing that person is properly trained and equipped. The duties of the CSE Supervisor may also be passed from one individual to another during the course of an entry operation.

Duties of Authorized Entrants

Each Department Head or his/her designee shall ensure that each authorized entrant:

1. Know the hazards that may be faced during entry, including information on the mode, signs or symptoms, and consequences of the exposure;
2. Know how to properly use equipment;
3. Communicate with the attendant as necessary to enable the attendant to monitor entrant status and enable the attendant to alert entrants of the need to evacuate the space;
4. Be able to alert the attendant whenever the entrant recognizes any warning sign or symptom or exposure to a dangerous situation; or a prohibited condition;
5. Be able to exit the space whenever;
 - a. An order to evacuate is given by the attendant or the entry supervisor; or

- b. Whenever the entrant detects a prohibited condition/dangerous situation; or
- c. When an evacuation alarm is activated.

The Department Head or his/her designee shall ensure that each attendant:

1. Know the hazards that may be faced during entry, including information on the mode, signs or symptoms, and consequences of the exposure;
2. Is aware of the possible behavioral effects of hazard exposure to entrants;
3. Continuously maintains an accurate count of authorized entrants in the confined space and ensures that the means used to identify authorized entrants accurately identifies who is in the space;
4. Remains outside the confined space during entry operations until relieved by another attendant:
Note: This program allows attendant entry for rescue providing the attendant has been trained and properly equipped for rescue operations and if the attendant has been properly relieved.
5. Communicates with authorized entrants as necessary to monitor entrant status and to alert entrants of the need to evacuate the confined space;
6. Monitors activities inside and outside the space to determine if it is safe for authorized entrants to remain in the space and orders the authorized entrants to evacuate the space immediately under the following conditions:
 - a. If the attendant detects a prohibited condition;
 - b. If the attendant detects the behavioral effects of hazard exposure in an authorized entrant;
 - c. If the attendant detects a situation outside the space that could endanger the authorized entrant;
 - d. If the attendant cannot effectively and safely perform all the duties required.
7. Summon rescue and other emergency services as soon as the attendant determines that authorized entrants need assistance to escape from the confined space hazards;
8. Warn unauthorized personnel that they must stay away from the confined space;
9. Advise unauthorized personnel that they must exit the confined space immediately if they have entered the confined space;
10. Inform the authorized entrant(s) and the entry supervisor, if applicable, if unauthorized persons have entered the confined space;
11. Performs non-entry rescues as specified in “Non-Entry Rescue” procedures;
12. Performs no duties that might interfere with the attendant’s primary duty of monitoring and protecting the authorized entrants.

Duties of authorized entrants and attendants, as well as entry supervisor’s duties are made a part of the general training component.

Host Employees

When the City of New London engages the services of another employer or agency to have their employees perform work that involves confined space entry, the Department Head or his/her designee shall assure that:

- a. The other employer or agency is apprised of the elements, including the hazards identified and the City of New London's experience with the space, that make the space in question a confined space;
- b. Entry operations are coordinated with the other employer or agency when employees of both will be working together in or near confined spaces.

General Rules

In order to protect the safety and health of all employees associated with the confined space entry, employees and supervisors must comply with the following safety rules:

1. No employee shall enter or work in a permit required confined space unless the following steps have been performed:
 - a. Obtains permission to enter the confined space from the Department Head.
 - b. Conducts continuous air monitoring of the atmosphere within the confined space in the entrant's immediate work area.
 - c. Obtains and uses the proper PPE, tools and emergency rescue equipment.
 - d. Complies with all confined space entry procedures.
 - e. Never enters a confined space without at least one attendant present with the same level of PPE and respiratory protection.
 - f. Immediately exits the confined space in the event that the attendant must leave his/her post.
2. All employees within the confined space and those employees assigned to serve as attendants shall be in constant two-way communication.
3. All employees required to wear respiratory protection must properly use and maintain properly the respirator in accordance with CFR 1910.134 and the specific instructions provided to them by their supervisor and during training.
4. Smoking is not permitted within the confined space or within a 10 feet radius of the entrance of a confined space.
5. All employees shall comply with the requirements and limitations on the confined space entry permit, including the maximum number of employees permitted to work in the confined space.
6. No employee shall enter or work in a non-permit confined space unless the following steps have been performed:
 - a. Obtains permission to enter the confined space from the Department Head.
 - b. Obtains and uses the proper PPE, tools and other equipment.
 - c. Complies with all other applicable confined space entry procedures.

Traffic Safety

Entrances to confined spaces that are located in streets shall be guarded in accordance with the following requirements:

1. Employees shall activate the following warning lights upon approach to an entrance to a confined space:
 - a. Vehicle's beacon light
 - b. Four-way hazard flashers
2. Employees shall park the vehicle used to transport their confined space equipment in such a way that the vehicle does not obstruct the normal traffic flow and shall, when possible, use the vehicle to provide protection for the employees.
3. Employees shall park the vehicle in such a manner that the vehicle's exhaust fumes cannot accumulate in the confined space.
4. Employees shall properly place traffic cones around the manhole and any vehicle in accordance with state and federal traffic ordinances to adequately warn oncoming traffic.
5. Traffic safety cones shall be visible to traffic in all directions and in such a manner as to protect the employees from the traffic flow. Traffic cones should also be placed far enough from the confined space to give drivers adequate notice.
6. When working on the street or an easement surface, all standby and flag person employees shall at **all** times wear a traffic safety vest or the equivalent. A flag person(s) shall be added to the confined space entry team when the need arises. The flag person(s) shall not be considered as the required attendant for a permit required confined space.

Rescue and Emergency Services

The City of New London has taken every precaution to assure safety in confined space entries by the use of self-rescue and non-entry rescue. Even with the most prudent pre-planning, employee training, and the best safety procedures in place, there may be times when an entry rescue is needed. The following procedures are established for affecting an entry rescue.

Communications

Prior to entry into any confined space, Permit or Non-Permit, the authorized entrant and attendant, if applicable, shall:

- Have a two-way portable radio with the Fire/EMS channel pre-programmed into the radio.
- If the situation arises that requires additional help the authorized entrant and/or attendant shall communicate to 911 the nature of the incident, the exact location and the number of persons involved.

No unauthorized personnel shall be permitted to attempt a rescue.

Entry Rescue

The Waste Water Treatment Personnel is the primary rescue response unit for any confined space entry rescue in the City of New London. The City of New London shall ensure that the WWTP and Street Department personnel is provided with, and is trained to use properly, the personal protective equipment and rescue equipment for making rescue into confined spaces. New London Family Medical Center is

the Emergency Medical Services designee.

The City of New London shall also ensure that rescue personnel:

1. Are trained to perform the rescue services.
2. Are trained as authorized entrants.
3. Make practice confined space entries at least once every 12 months by means of simulated rescue operations in which they remove dummies, manikins, or actual persons from actual confined spaces.
4. Are trained and certified in first aid and CPR.
5. Have complete access to all confined spaces from which the rescue may be necessary so that the WWTP and Street Departments can develop the rescue plan and practice rescue operations.

Non-Entry Rescue

To facilitate non-entry rescue, retrieval systems or similar methods shall be used whenever an authorized entrant enters a confined space, unless the retrieval equipment would increase overall risk of entry or would not contribute to the rescue of the entrant. Retrieval systems shall meet the following requirements:

1. Each authorized entrant shall use a full-body harness, with a retrieval line attached.
2. The other end of the line shall be attached to a mechanical device or fixed point outside the confined space. A mechanical device shall be available to retrieve personnel from vertical type confined spaces more than five (5) feet deep.

Material Safety Data Sheets (MSDS)

If an injured entrant is exposed to a substance for which a Material Safety Data Sheet (MSDS) or similar written information is required to be kept at the worksite, that MSDS or written information shall be made available to the Rescue or Emergency Medical Services personnel for treatment purposes.

Training

Each Supervisor is to ensure that employees who are to have active roles in entry operations are trained so that attendants, authorized entrants and the entry supervisor(s) can work safely in and around the confined space and assist in rescue operations.

Annual Training

General training shall be provided by CVMIC. Specific procedures should be reviewed prior to authorizing confined space duties. Each Department Head shall ensure that training is provided so that all employees have active roles in entry operations acquire the understanding, knowledge, and skills necessary for the safe performance of the duties in confined spaces.

Additional Training

Training shall be provided to each employee having active roles in entry operations:

1. Before the employee is first assigned duties
2. Before there is a change in duties
3. Whenever there is a change in confined spaces that present a hazard about which an employee has not previously been trained
4. Whenever the Supervisor has reason to believe either that there are deviations from entry procedures required or that there are inadequacies in the employee's knowledge or use of these procedures.

The training shall establish employee proficiency in the duties required by this program and shall introduce new or revised procedures, as necessary, for compliance with this program.

Certification

All training to employees having active roles in entry operations shall be certified. The certification shall contain each employee's name, the signature of the trainer(s), training content, and the dates of the training. The certification shall be available for inspection by employees and their authorized representatives.

Equipment

Each Department engaged in confined space entry must provide, maintain, and ensure proper use of testing, monitoring, communication, personal protective and rescue equipment. All PPE required for safe confined space entry is provided by the City of New London and shall be worn by authorized entrants. When work at confined spaces is located in or on streets the employee shall:

1. Activate the vehicles 4 way flashers and vehicle beacon upon approach to the entrance of the confined space.
2. Position the vehicle to permit traffic to flow in an unobstructed manner, and where possible, to provide protections for employees.
3. Position the vehicle in such a manner so that vehicle exhaust cannot accumulate in the confined space.
4. The opening shall be promptly guarded by a railing, temporary cover or barrier that will prevent an accidental fall through the opening and will protect the employee working in the space from foreign objects entering the space.

The following is an example of required equipment:

- 4 (four) substance monitoring equipment
- Two-way radio communications

- Eye and face protection
- Head protection
- Hearing protection
- Body protection
- Hand protection
- Respirators and/or SCBA
- Ventilation/Blower systems
- Rescue equipment; full body harness, mechanical retrieval system with fall arrest capabilities and lifelines
- Tripod or anchor point

Record Keeping

Under this program the following records are to be kept, maintained and retained:

1. Documents for inspection, repair and calibration results of all monitoring equipment for at least 5 years.
2. Documents for inspection and maintenance of all retrieval systems, ropes, harnesses and other entry equipment for at least 5 years.
4. Entry certificates/checklists for at least one year, revised as required and reviewed annually as a part of the general training program.

CONFINED SPACE ENTRY PERMIT

Date _____	Time _____	Job Site/Space _____	Entry Supervisor _____																																													
Equipment To Be Worked On _____		Work To Be Performed _____																																														
Attendant Personnel																																																
Atmospheric Check Before Entry		Atmospheric Check During Entry																																														
Time _____	Time _____	>19.5% <23.5%																																														
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<table style="width: 100%; border: none;"> <tr> <td style="width: 60%;">Entry, Attendant, and Back-up Persons:</td> <td style="width: 10%;">Yes</td> <td style="width: 10%;">No</td> </tr> <tr> <td>Successfully completed required training?</td> <td>()</td> <td>()</td> </tr> <tr> <td>Is it current?</td> <td>()</td> <td>()</td> </tr> <tr> <td>Equipment:</td> <td>N/A</td> <td>Yes</td> <td>No</td> </tr> <tr> <td>Direct reading air monitoring equipment tested.</td> <td>()</td> <td>()</td> <td>()</td> </tr> <tr> <td>Safety harnesses and lifelines for entry and standby persons</td> <td>()</td> <td>()</td> <td>()</td> </tr> <tr> <td>Hoisting equipment</td> <td>()</td> <td>()</td> <td>()</td> </tr> <tr> <td>Powered communications</td> <td>()</td> <td>()</td> <td>()</td> </tr> <tr> <td>SCBA's for entry and standby persons</td> <td>()</td> <td>()</td> <td>()</td> </tr> <tr> <td>Protective clothing</td> <td>()</td> <td>()</td> <td>()</td> </tr> <tr> <td>All electric equipment listed Class I, Division I, Group D, and non-sparking tools</td> <td>()</td> <td>()</td> <td>()</td> </tr> <tr> <td>Air monitoring device can simultaneously test for Oxygen, toxic and combustible gases</td> <td>()</td> <td>()</td> <td>()</td> </tr> </table> <p>I _____ have reviewed the work authorized by this checklist and the information contained herein. Written instructions and safety procedures have been received and are understood. Entry cannot be performed if any squares are marked in the "NO" column. This checklist is not valid unless all appropriate items are completed.</p>				Entry, Attendant, and Back-up Persons:	Yes	No	Successfully completed required training?	()	()	Is it current?	()	()	Equipment:	N/A	Yes	No	Direct reading air monitoring equipment tested.	()	()	()	Safety harnesses and lifelines for entry and standby persons	()	()	()	Hoisting equipment	()	()	()	Powered communications	()	()	()	SCBA's for entry and standby persons	()	()	()	Protective clothing	()	()	()	All electric equipment listed Class I, Division I, Group D, and non-sparking tools	()	()	()	Air monitoring device can simultaneously test for Oxygen, toxic and combustible gases	()	()	()
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Checklist Completed by: _____																																																

I (print name), _____ have received a copy of the City of New London policy on Confined Space Entry. I have also read and understand the policy on Confined Space Entry.

Name

Date