

RESOLUTION NO. 2015-006

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF DEER PARK, WASHINGTON ADOPTING A REVISED CONFINED SPACE ENTRY AND RESCUE PROGRAM AND REPEALING RESOLUTION 1994-011.

WHEREAS, City Staff have reviewed the Confined Space Entry and Rescue Procedures contained in Resolution 1994-011 and have determined it would be beneficial to the City to update the Procedures to more clearly reflect the requirements established in Chapter 296-809 of the Washington Administrative Code; and

WHEREAS, City Staff have consulted with affected employees and their authorized representatives when developing and implementing all aspects of the Confined Space Entry and Rescue Program; and

WHEREAS, approval of this Resolution will result in increased protection of the health and safety of those City employees working in confined spaces; and

WHEREAS, the Mayor and City Council concur with the recommendation of City Staff and have concluded that passage of this Resolution is in the best interests of the public health, safety, and welfare of the employees and citizens of the City of Deer Park; **NOW, THEREFORE**,

**THE CITY COUNCIL OF THE CITY OF DEER PARK, WASHINGTON
HEREBY RESOLVE AS FOLLOWS:**

Section 1. The City Council hereby approves and adopts the following Confined Space Entry and Rescue Program for the City of Deer Park:

CONFINED SPACE ENTRY AND RESCUE PROGRAM

I. OVERVIEW

The purpose of this Confined Space Entry and Rescue Program ("Program") is to establish minimum standards and procedures that shall be mandatory for the adequate protection of employees and other persons who may be required to enter confined spaces as defined herein.

It is the policy of the City of Deer Park to require all employees assigned to work in and around confined spaces to be adequately trained and protected from the hazards that might be encountered. All employees working in or near confined spaces shall follow the procedures set forth herein.

This Program:

1. Describes City procedures for worker safety and health in confined spaces and is written for City employees that may enter confined spaces.
2. Describes how the City manages permit-required confined spaces.
3. Describes required training for City employees and describes City responsibility for contractors entering City confined spaces.

The City of Deer Park will treat all confined spaces as permit-required spaces until they have been evaluated and are documented to be non-permit confined spaces.

II. DEFINITIONS

Acceptable Entry Conditions: The conditions that must exist in a permit-required confined space to allow safe entry and work.

Alternate Entry: Procedures that can be used for permit-required confined spaces when the only hazard is an atmospheric hazard and certain conditions are met.

Attendant: An individual stationed outside one or more permit-required confined spaces to monitor the Entrants.

Blanking or Blinding: The absolute closure of a pipe, line, or duct by fastening a solid plate (such as a spectacle blind or a skillet blind) that completely covers the bore. It is capable of withstanding the maximum pressure of the pipe, line, or duct with no leakage beyond the plate.

Confined Space: A space that is all of the following:

- Large enough and arranged so an employee could fully enter the space and work;
- Has limited or restricted entry or exit (examples of spaces with limited or restricted entry or exit are tanks, vessels, silos, storage bins, hoppers, vaults, excavations, and pits); and
- Not primarily designed for human occupancy.

Contaminant: Any organic or inorganic substance, dust, fume, mist, vapor, or gas whose presence in the air may be harmful to human beings.

Double Block and Bleed: The closure of a line, duct, or pipe by closing and locking or tagging 2 in-line valves and by opening and locking or tagging a drain or vent valve in the line between the 2 closed valves.

Emergency: Any occurrence (including any failure of hazard control or monitoring equipment) or event, internal or external to the permit-required confined space that could endanger authorized Entrants.

Engulfment: The surrounding capture of a person by a liquid or finely divided (capable of flow) solid substance that can be inhaled 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.

Enter (Entry): The action by which a person passes through an opening into a permit-required confined space and includes work activities in that space. Entry is considered to have occurred as soon as any part of the Entrant's body breaks the plane of an opening into the space.

Note: If the opening is large enough for the worker to fully enter the space, a permit is required even for partial body entry. Permits are not required for partial body entry where the opening isn't large enough for full entry, although other rules such as chapter 296-803 WAC (Lockout-Tagout), and chapter 296-841 WAC (Airborne Contaminants) may apply.

Entrant: An employee who is authorized by the employer to enter a permit-required confined space.

Entry Permit (Permit): The written or printed document that is provided to allow and control entry into a permit-required confined space and that contains the information required in WAC 296-809-500, Permit Entry Procedures.

Entry Supervisor: The person (such as the supervisor, lead, or crew chief) responsible for determining if acceptable entry conditions are present at a permit space where entry is planned, for authorizing entry and overseeing entry operations, and for terminating entry as required.

Hazardous Atmosphere: An atmosphere that may expose employees to the risk of death, incapacitation, impairment of ability to self-rescue (that is, escape unaided from a permit-required confined space), injury, or acute illness caused by one or more of the following:

- Oxygen: less than 19.5% or greater than 23.5%.
- Flammable Gases: greater than 10% of the lower flammable limit (LFL).
- Airborne combustible dust at a concentration that meets or exceeds its LFL.

Note: This concentration will be approximated as a condition in which the dust obscures vision at a distance of 5 feet or less. If combustible dust that reduces visibility to five feet or less is observed, entry will not continue.

- Atmospheric concentration of any substance which may exceed a permissible exposure limit. For additional information about atmospheric concentration, see chapter 296-62 WAC, Parts F, G, and I, General Occupational Health Standards and chapter 296-841 WAC, Airborne Contaminants.

Note: An airborne concentration of a substance that is not capable of causing death, incapacitation, and impairment of ability to self-rescue, injury, or acute illness due to its health effects is not covered by this definition.

- Any other atmospheric condition that is immediately dangerous to life or health.

Immediately Dangerous to Life and Health (IDLH): Any of the following conditions:

- An immediate or delayed threat to life.
- Anything that would cause irreversible adverse health effects.
- Anything that would interfere with an individual's ability to escape unaided from a permit-required confined space.

Note: Some materials— e.g., hydrogen fluoride gas and cadmium vapor— may produce immediate transient effects that, even if severe, may pass without medical attention, but are followed by sudden, possibly fatal collapse 12 to 72 hours after exposure. The victim “feels normal” after recovery from transient effects until collapse. Such materials in hazardous quantities are considered to be “immediately” dangerous to life or health.

Isolation/Isolate: The process by which a permit-required confined space is protected against the release of energy and material into the space by such means as:

- Blanking or blinding;
- Misaligning or removing sections of lines, pipes, or ducts;
- A double block and bleed system;
- Lockout or tagout of all sources of energy; or
- Blocking or disconnecting.

Lower Explosive Limit (LEL)/Lower Flammable Limit (LFL): The minimum vapor concentration of a combustible gas or vapor in air which will ignite if an ignition source is present. The term Minimum Explosive Concentration (MEC) is used for dusts.

Non-Permit Confined Space: A confined space that does not contain actual hazards or potential hazards capable of causing death or serious physical harm.

Permit-Required Confined Space (PRCS)/Permit Space: A confined space that has one or more of the following characteristics capable of causing death or serious physical harm:

- Contains or has a potential to contain a hazardous atmosphere.
- Contains a material with the potential for engulfing someone who enters.
- Has an internal configuration that could allow someone entering to be trapped or asphyxiated by inwardly converging walls or by a floor, which slopes downward and tapers to a smaller cross section.
- Contains any physical hazard. This includes any recognized health or safety hazards including engulfment in solid or liquid material, electrical shock, or moving parts.
- Contains any other recognized serious safety or health hazard that could either:
 - Impair the ability to self-rescue, or
 - Result in a situation that presents an immediate danger to life or health.

Prohibited Condition: Any condition in a permit-required confined space that is not allowed by the permit during the authorized entry period.

Retrieval System: The equipment used for non-entry rescue of persons from permit-required confined spaces, such as a retrieval line, full-body harness or wristlets, and a lifting device or anchor.

Testing: The process of identifying and evaluating the hazards that Entrants may be exposed to in a permit-required confined space. Testing includes specifying the tests that are to be performed in the permit-required confined space.

Note: Testing allows employers to devise and implement adequate controls to protect Entrants during entry, and to determine if acceptable entry conditions are present.

III. ROLES AND RESPONSIBILITIES

The general confined space worker positions and duties are as follows:

1. **Attendant.** The actual number of Attendants assigned should be tailored to the requirements of the space(s) and the work performed. Attendants may be stationed at any location outside the permit-required confined space if the duties described below can be effectively performed for each space that is monitored. Each Attendant shall:
 - Understand the hazards that may be faced during entry, including the mode, signs or symptoms, and results of exposure to the hazards.
 - Be aware of the behavioral effects of exposure to the hazard.
 - Continuously maintain an accurate count of Entrants in the space.
 - Maintain an accurate record of who is in the permit-required confined space.
 - Communicate with Entrants as necessary to monitor their status or alert them of the need to evacuate the space.
 - Monitor activities inside and outside the space to determine if it is safe for Entrants to remain in the space.

- Order Entrants to evacuate the space immediately if any of the following conditions occur:
 - A prohibited condition;
 - Observation of the behavioral effects of hazardous exposure in an Entrant;
 - A situation outside the space that could endanger Entrants; or
 - The Attendant cannot effectively and safely perform all required duties.
- Take the following actions when unauthorized persons approach or enter a space:
 - Warn unauthorized persons to stay away from the space;
 - Tell the unauthorized persons to exit immediately if they have entered the space; and
 - Inform Entrants and the Entry Supervisor if unauthorized persons have entered the space.
- Perform non-entry rescues as specified by rescue procedure.
- Have the means to respond to an emergency affecting one or more of the permit spaces being monitored without preventing performance of the Attendant's duties to the other spaces being monitored.
- Carry out no duties that might interfere with their primary duty to monitor and protect the Entrants.
- Call for rescue and other emergency services as soon as Entrants may need assistance to escape from the space.
- Monitor entry operations until relieved by another Attendant or all Entrants are out of the space.

2. Entrant. The Entrant shall:

- Know the hazards they may face during entry, including the mode, signs or symptoms, and results of exposure to the hazards.
- Use equipment properly.
- Communicate with the Attendant as necessary so the Attendant can:
 - Monitor Entrant status; and
 - Alert Entrants of the need to evacuate.
- Perform the assigned task.
- Alert the Attendant whenever either of these situations exist:
 - A warning sign or symptom of exposure to a dangerous situation such as, behavioral changes, euphoria, or giddiness potentially from lack of oxygen or exposure to solvents; or
 - A prohibited condition.
- Exit from the permit-required confined space as quickly as possible when one of the following occurs:
 - The Attendant or Entry Supervisor gives an order to evacuate;
 - The Entrant recognizes any warning sign or symptom of exposure to a dangerous situation;
 - The Entrant detects a prohibited condition; or
 - An evacuation alarm is activated.

3. Entry Supervisor. The Entry Supervisor shall:

- Verify and check all of the following:
 - The appropriate entries have been made on the permit;
 - All tests specified by the permit have been conducted; and
 - All procedures and equipment specified by the permit are in place before approving the permit and allowing entry to the space.
- Authorize the entry into a permit-required confined space by ensuring entry conditions have been met and signing the entry permit.
- Oversee entry operations.
- Know about the hazards that may be faced during entry, including the mode, signs or symptoms, and consequences of the exposure.
- Terminate the entry and cancel the permit when:
 - The assigned task or job has been completed; or
 - A condition in the space that isn't covered by the entry permit is discovered.
- Verify that rescue services are available and that there is a way to contact them.
- Remove unauthorized individuals who enter or attempt to enter the permit-required confined space during entry operations.
- Determine that entry operations remain consistent with the terms of the entry permit and acceptable entry conditions are maintained:
 - Whenever responsibility for a permit-required space entry operation is transferred; and
 - At regular intervals dictated by the hazards and operations performed within the space.
- Re-evaluate the space when the use, configuration, or hazards of a confined space change or Entrants or their representatives believe that the space was inadequately tested.
- Oversee the securing of the entry to the confined space upon completion of the work.
- Cancel the permit upon completion of the work and turn canceled permit in for filing.

IV. EQUIPMENT

The following items shall be present as needed at any job site wherein an employee may be required to enter a confined space and shall be provided by the City at no cost to employees:

- A. At least one (1) atmospheric alarm unit;
- B. At least one (1) proper safety harness including necessary devices for connection to a lifeline. Lifelines shall be of 2,000-pound test.
- C. At least one (1) winch device for lifting a person out of a utility access or other underground structure.
- D. Ladders as needed for safe entry and exit.
- E. Appropriate lighting equipment, including (2) explosion-proof flashlights with one (1) set of fresh spare batteries for each.
- F. At least one (1) ventilation blower with hose and hose storage drum. This must include necessary power supply wiring and hook-ups for operation.
- G. At least one (1) fully-equipped first aid kit.

- H. At least one (1) eyewash unit filled with fresh and clear water.
- I. Fresh water with soap and paper towels.
- J. Suitable lanyards and buckets for supplying tools and other work requirements to the Entrant.
- K. Adequate barriers or shields, such as pedestrian, vehicle, or other barriers.
- L. Two-way radios for communication. However, where possible, Entrants and Attendants will use visual contact and verbal communication which is more effective and practical.
- M. Protective clothing, hard hat, and gloves shall be worn when entering a confined space. In spaces which do or could contain corrosive chemicals which are toxic through contact, special equipment to prevent skin or eye contact shall be worn.
- N. Other devices and equipment as may be required for the safe completion of all work in the confined space.

Note: All crew members working at a confined space entry shall carry a current first aid card recognized by the State of Washington Department of Labor and Industries.

Equipment Care, Inspection and Testing: The confined space entry crew shall inspect and check the condition of snaps, buckles, hardware, straps, seams, and stitching of approved safety harnesses, lanyards, ropes, strap ladders, rope ladders, and winch units that are to be used with the planned confined space entry. Ventilation blower units shall be tested, lubricated, and serviced according to manufacturer specifications. The atmospheric hazard alarm unit shall be recharged and calibrated prior to each use, and testing of the unit with the use of a gas test kit shall occur on a weekly basis. A written record of the weekly test is to be maintained. First aid kits shall be replenished after each use. Eyewash units shall be inspected, tested, and have their water reservoirs replaced as recommended per the manufacturer's specifications. Traffic safety control equipment shall be inspected and inventoried on a regular basis.

Anyone noting a malfunction of any gas detector, sampling device, ventilation equipment, or any other device required for safe entry shall immediately remove the equipment from service, place a tag on the equipment noting the piece as deficient, and turn the item in for repair.

The Attendant, Entry Supervisor, and all Entrants shall know the proper operation and maintenance of all sampling and/or safety equipment.

V. CONFINED SPACE PERMIT COMPLETION/ GENERAL PRE-ENTRY PROCEDURES

All confined space entry is typically pre-scheduled, if during a confined space entry a new confined space is discovered, the crew will determine if entry is necessary and it will be assigned a date and/or time of entry and a pre-briefing will occur prior to entry.

The following procedures shall be followed prior to any entry into a City confined space:

- A. The Entry Supervisor must first be selected and shall then lead a pre-entry meeting. Prior to work that requires entry into confined spaces, the Entry Supervisor will meet with each employee involved for a pre-entry briefing. The briefing will consist of a review of every confined space to be entered on that day. The Entry Supervisor will also review the

known hazards of each space and the work to be performed, entry procedures, required equipment, planned rescue, non-entry rescue procedures, and any other information necessary for safe entry. This will be a time for staff to ask questions, make suggestions or voice concerns.

- B. Complete an entry permit before entry is authorized, documenting that the means, procedures and practices necessary for work and safe, non-entry rescue have been completed.
- C. Provide all Entrants or their representatives an opportunity to observe any monitoring or testing, or any actions taken to eliminate or control hazards, that are performed to complete the permit.
- D. The Entry Supervisor shall sign the entry permit, authorizing entry, before the space is entered.
- E. The completed permit shall be available to Entrants or their authorized representatives at the time of entry by the Entry Supervisor posting the completed permit at the entry location.
- F. The duration of the permit shall not exceed the time required to complete the assigned task or job identified on the permit.
- G. Entry Supervisors will make a visual check of crews making entries to assure correct procedures are being followed and safety precautions are being taken and any problems encountered during an entry operation will be noted on the permit. This information will be used by management to make appropriate revisions to the program, entry operations, means, systems, procedures and practices as needed.

VI. TESTING/MONITORING OF CONFINED SPACES

- A. The Entry Supervisor will evaluate atmospheric hazards for safe entry into confined spaces with a multi-gas meter. Atmospheric hazards shall be tested in this order: oxygen content, flammable gasses and vapors, and potential toxic air contaminants.
- B. The following limits are used for safe entry:
 - 1. Oxygen: between 19.5% and 23.5%
 - 2. Combustible Gases: less than 10% of the lower explosive limit (LEL)
 - 3. Toxic Gases and Vapors: Hydrogen Sulfide (H₂S) less than 5ppm
 - 4. Carbon Monoxide (CO): less than 20ppm
 - 5. If combustible dust that reduces visibility to five feet or less is observed, entry will not continue.
- C. The Entry Supervisor will provide each Entrant or their authorized representative the opportunity to observe pre-entry testing, subsequent testing, and any other monitoring of permit-required spaces. Reevaluation of the permit-required space shall be done upon the request of any Entrant or their authorized representative if they express concern that they have reason to believe that the evaluation of the confined space may not have been adequate. Additionally, the results of any testing shall immediately be provided to each Entrant or their authorized representative upon request.

- D. The conditions of a confined space shall be continuously monitored in areas where Entrants are working when isolation of the space is not feasible.
- E. The Entry Supervisor and/or Attendant(s) will survey the surrounding area prior to entry to avoid hazards such as drifting vapors from the tanks, piping, or sewers.

Evaluation of the confined space conditions shall occur as follows:

You must:	In order to:
Test conditions before entry	Determine that acceptable entry conditions exist before entry is authorized
Test or evaluate conditions during entry	Determine that acceptable entry conditions are being maintained during entry operations
Evaluate entry operations	Make sure entrants do not endanger each other

VII. CONTROL OF ENTRY

- A. The following method(s) are to be utilized to inform employees about the existence and hazards of confined space, and to prevent unauthorized entry during entry operations:
 - 1. Pre-entry briefing with Entry Supervisor;
 - 2. Signs posted at each permit space reading "Danger – Confined Space – No Unauthorized Entry" or similar language;
 - 3. Barriers;
 - 4. Never leaving the confined space unattended when entry is occurring;
 - 5. Listing hazards for confined space on the entry permits.

- B. The Attendant will take the following actions when unauthorized persons approach or enter a space:
 - 1. Warn unauthorized persons to stay away from the space;
 - 2. Tell the unauthorized persons to exit immediately if they have entered the space; and
 - 3. Inform Entrants and the Entry Supervisor that unauthorized persons have entered the space.

- C. The City shall inform affected employees about the existence, location, and danger of any permit-required confined spaces by appropriate signage. The City will also take reasonable steps to prevent unauthorized employees and the public from entering permit-required confined spaces through the use of padlocks, covers, or other such devices.

VIII. SAFE ENTRY PROCEDURES INTO CONFINED SPACES

A. Entering Confined Spaces:

- 1. Before entering, warning devices, guards, etc., will be installed by the crew to provide adequate protections to workers and the public. The Entry Supervisor

and/or Attendant will visually check around the outside of the confined space first, and then carefully remove cover before testing.

2. To remove the cover, lift the lid just enough to insert the testing device to get an accurate test. This should be done in such a way as to avoid sparks. The crew will never use an open flame to thaw ice around a cover. Initial testing of a confined space atmosphere will be done through holes in the confined space cover where possible.
 - i. Never strike a seated cover with a steel or iron tool, and exercise care to reduce the potential for sparks. If needed, a hardened bronze cold chisel or some other non-sparking implement should be used.
 - ii. If the initial test checks within acceptable limits, the Entrant or Attendant will remove the confined space cover and prior to entry, test again. If all tests are within limits listed above, the confined space may be entered. Upon initial entry, the Attendant will take additional tests with the appropriate meter at all areas and levels of the confined space. All monitoring results will be documented on the permit. If hazardous atmospheres cannot be eliminated, the space is determined an entry rescue permit-required confined space.
3. Even if all tests are within allowable limits, confined spaces that are 15 feet deep or greater shall be purged initially with a power blower with a fresh supply of air for at least 5 changes of air, but never less than 5 minutes. Ventilation will be continuous.
4. The atmosphere shall be monitored continuously. The Entry Supervisor will evaluate space prior to entry, and then hand off monitor to the Entrant. Entrant will monitor continuously and call out readings every 15 to 30 minutes to log. All work shall stop and the confined space shall be evacuated if atmospheric testing fails. Re-entry sampling shall be conducted after ventilation has been provided. Sampling should be conducted anytime a confined space is reopened or for crew changes.
5. If atmospheric conditions are measured and found to be outside acceptable operating conditions, evacuate the space and perform the following procedures:
 - i. For oxygen deficiency, evacuate the space and ventilate for 5 air changes and test again. The minimum ventilation time shall be 5 minutes.
 - ii. If flammable gases are detected above 10% of the lower explosive limit, evacuate and close the space.

B. Pumps and lines: All pumps and lines which may reasonably cause contaminants to flow into the sewer shall be disconnected, blinded, and locked out/tagged out, or effectively isolated by other means to prevent development of dangerous air contamination or engulfment. Not all lateral lines to sewers or storm drains require blocking. However, where experience or knowledge of use indicates a reasonable potential for contamination of air or engulfment into an occupied space, then all affected lateral lines shall be blocked.

- C. Supervisors shall ensure that workers in confined spaces are not exposed to chemical, physical and biological agents. The best method is to evaluate the confined space and do not enter if these agents are present and cannot be eliminated.
- D. No matches, lighters or any other items capable of producing a spark or flame (other than approved tools) are allowed in a confined space.
- E. Entry Supervisors shall take adequate precautions to prevent foreign objects, tools, rocks, dirt, water, etc., from entering a confined space.

IX. ENTRY RESCUE AND NON-ENTRY RESCUE PROCEDURES

The City does not perform entry rescue in permit-required confined spaces. The City performs non-entry rescue only.

The following criteria must be met to be considered a non-entry rescue space:

1. The opening is at least 18 inches in diameter;
2. The size and stature of the Entrant along with his/her personal protective equipment (PPE) and any tool-belt can clear the opening;
3. There is a horizontal and stable surface surrounding the opening to support a tripod, davit or mobile davit and the Attendant;
4. The weight of the Entrant and his/her equipment does not exceed the rating and purpose of the retrieval winch;
5. The length of lifeline cable is adequate for the Entrant to remain attached while working in the space;
6. The retrieval system (harness and lifeline) can be used without the Entrant or harness getting caught on anything while working, or in the event he/she needs to be hoisted out of the space with the retrieval system; and
7. Once inside the space the Entrant will not travel over baffles or beyond protruding pipes or obstacles in the direction of travel where the harness or lifeline could become caught.

Prior to entry into a permit-required confined space, an action plan must be prepared which provides a means for rescue of persons from the space in the event of an emergency. An emergency includes heart attacks and injuries that would require assistance for safely removing the person from the space. Each situation requires specific instructions and may vary from space to space.

During the pre-entry briefing, the following must be established:

1. Chosen method for contacting rescue and emergency services;
2. Chosen procedures for rescuing Entrants from the permit-required confined space;
3. Chosen means of providing necessary emergency services to rescued Entrants; and
4. Chosen methods of preventing unauthorized persons from attempting a rescue.

The City will contract out any entry rescue work to contractors that can respond to a rescue call in a timely manner and proficiently rescue employees from a permit-required confined space. At least one member of the rescue team must hold a current certification in first aid and cardiopulmonary resuscitation (CPR).

Each rescue team must be informed about the hazards they may confront when called to perform rescue. The rescue team must also be provided with access to all permit spaces from which rescue may be necessary.

Employees assigned to rescue teams will be provided, at no cost to the employee, with:

1. Personal protective equipment needed for safe entry;
2. Any other equipment required to conduct rescues safely;
3. Training so that they are:
 - a. Proficient in the use of all equipment that may be utilized;
 - b. Proficient as an Entrant of permit-required confined space;
 - c. Able to safely perform assigned rescue and emergency duties; and
 - d. Knowledgeable in basic first aid and cardiopulmonary resuscitation (CPR);
4. Practice sessions for permit-required confined space rescues at least once every twelve months where dummies, or actual persons, are removed from either:
 - a. Actual permit spaces; or
 - b. Representative permit spaces that simulate the opening size, configuration, and accessibility, of permit spaces where rescue will be performed.

The City shall use non-entry rescue systems and methods whenever possible. Such non-entry rescue systems and methods are to be used to rescue Entrants in a permit-required confined space unless this:

1. Would increase the overall risk of injury to Entrants; or
2. Would not contribute to the rescue of the Entrant.

If either of the above conditions is present, a City-approved contractor will do the confined space entry and rescue work.

The following actions shall be taken to facilitate non-entry rescue:

- A. An Entrant shall use a full-body harness, with a retrieval line attached to the harness at one of the following locations:
 1. At the center of the back, near shoulder level;
 2. Above the head; or
 3. At another point which presents a profile small enough for the successful removal of the Entrant.

- B. Attach the retrieval line to an approved safe mechanical device or fixed point outside the space, so rescue can begin as soon as necessary. This is typically a tripod or davit.
- C. A mechanical device shall be available to retrieve Entrants from vertical spaces more than 5 feet deep.

X. ALTERNATE ENTRY PROCEDURES

Spaces that have hazardous atmospheres as their only hazard may use alternate entry procedures. Alternate entry procedures still require the use of a City Confined Space Entry Permit. Management will make sure, when using alternate entry procedures, that monitoring and inspection data supports the following:

- 1. That the only hazard of the confined space is an actual or potentially hazardous atmosphere; and
- 2. That continuous forced air ventilation alone is all that is needed to maintain the confined space for safe entry.

Permit entry procedures must be followed where an entry is required to obtain monitoring and inspection data or to eliminate hazards. All documentation pertaining to the confined space must be available to each affected employee and their authorized representative.

When alternate entry is allowed, the City will utilize the following alternate entry procedures for entry into permit-required confined spaces:

- 1. Eliminate unsafe conditions before removing entrance covers.
 - a. After removing entrance covers, promptly guard the opening with a railing, temporary cover, or other temporary barrier to prevent accidental falls through the opening and protect Entrants from objects falling into the space.
 - b. Certify that pre-entry measures have been taken (such as safe removal of the cover and having protection needed to gather pre-entry data), with the date, location of the space, and signature of the person certifying.
 - c. Make the pre-entry certification available to each Entrant before entry.
- 2. Before an Entrant enters the confined space, test the internal atmosphere with a calibrated, direct-reading instrument for all of the following, in this order:
 - a. Oxygen content.
 - b. Flammable gases and vapors.
 - c. Potential toxic air contaminants.
- 3. Provide Entrants, or their authorized representatives, with an opportunity to observe the pre-entry and periodic testing.
- 4. Make sure the atmosphere within the space is not hazardous when Entrants are present.
- 5. Use continuous forced air ventilation as follows:
 - a. Wait until the forced air ventilation has removed any hazardous atmosphere before allowing Entrants into the space;

- b. Direct forced air ventilation toward the immediate areas where Entrants are, or will be, and continue ventilation until all Entrants have left the space;
 - c. Provide the air supply from a clean source and make sure it does not increase hazards in the space.
6. Test the atmosphere within the space, as needed, to make sure hazards do not accumulate.
 7. If a hazardous atmosphere is detected during entry, do all of the following:
 - a. Evacuate employees from the space immediately.
 - b. Evaluate the space to determine how the hazardous atmosphere developed.
 - c. Implement measures to protect employees from the hazardous atmosphere before continuing the entry operation.
 - d. Verify the space is safe for entry before continuing the entry operation.

XI. CLASSIFY A CONFINED SPACE AS A NON-PERMIT SPACE

The City shall treat all confined spaces as permit-required confined spaces. Currently, there are no spaces classified as non-permit. If in the future it becomes appropriate to classify a space as non-permit, the City will document the space conditions and follow the procedures set forth below herein.

The confined space shall meet all of the following conditions to be classified as a non-permit confined space:

1. The confined space does not contain an actual or potential hazardous atmosphere.
2. The confined space does not contain hazards capable of causing death or serious physical harm. This includes any recognized health or safety hazards including engulfment in solid or liquid material, electrical shock, or moving parts.
3. If a City employee must enter to remove hazards, the space shall be treated as a permit-required confined space until hazards have been eliminated.

Documentation that no permit-required hazards exist shall include the following:

1. The date, location, and signature of the person making the determination;
2. How it was determined that no permit-required hazards exist; and
3. Documentation will be available to Entrants by asking the Entry Supervisor or by posting at the entry to the space.

If permit-required hazards develop within a non-permit confined space, all Entrants must exit the space. The space shall then be reevaluated and it must be determined whether the space should be reclassified as a permit-required confined space.

XII. TRAINING

The City will provide training to each employee involved in confined space activities, so they acquire the understanding, knowledge and skills necessary to safely perform their assigned duties.

and establish proficiency in such duties. The City will introduce new or revised procedures as necessary.

Training provided by the City shall include complete instruction in the following subjects as necessary:

- Instruction in the hazards that can be encountered in a confined space;
- Instructions in the methods of assuring maximum employee protection from these hazards;
- Instruction in the purpose, functional applications and proper operation and use of safety equipment;
- Instruction in standards and emergency procedures at a confined space entry job site; and
- Instruction in post confined entry procedures for maximum health and protection.

The above-identified training will be provided at the following times:

1. Before an employee is first assigned to duties covered by Chapter 296-809 WAC;
2. When there is a permit-required confined space hazard for which the employee has not already been trained; and
3. If the City has reason to believe that there are either:
 - a. Deviations from this Program; or
 - b. Employee knowledge or use of the Program is inadequate.

Upon satisfactory completion of training, the City shall certify the employee's proficiency in his or her assigned duties. The certification will contain the employee's name, the trainer's signature, and the dates of training. The certification shall be available for inspection by employees and their authorized representatives upon reasonable advance notice.

XIII. CITY RESPONSIBILITIES WITH HOST EMPLOYERS (CITY EMPLOYEES ENTERING ANOTHER EMPLOYER'S CONFINED SPACES)

The City shall obtain any available information about confined space hazards and entry operations from the host employer.

The Entry Supervisor will do the following to make sure entry operations are coordinated with host employers, including:

1. Obtaining any information on the hazards of the permit space and information from previous entry operations;
2. Determining if other workers will be working in or near the space;
3. Coordinating entry operations with other workers;
4. Informing the host employer of the City's Program that will be followed during entry; and
5. Holding a debriefing conference at the completion of the entry operation, or during the entry operation if needed, to inform the host employer of any hazards confronted or created during work in the space.

XIV. RECORDS/REQUIRED PROGRAM REVIEW

Copies of this Program are available to all employees and their authorized representatives by contacting City Hall. The City shall make available to all affected employees and their authorized representatives all information and documents required by the Program upon reasonable notice.

Every completed confined space entry permit shall be kept on file for at least one (1) year. Entry permits and any other atmospheric monitoring records showing the actual atmospheric hazard an employee entered or worked in will be kept in each employee's file as employee exposure records.

At least every 12 months, supervisors will conduct a review using canceled entry permits to identify any deficiencies in the Program and the protection provided to employees entering confined spaces. The City will conduct a review immediately if there is reason to believe that the Program does not adequately protect employees, such as the following situations:

- A. Unauthorized entry of a permit space;
- B. Discovery of a hazard not covered by the permit;
- C. Detection of a condition prohibited by the permit;
- D. An injury or near-miss during entry;
- E. Change in the use or configuration of the space; or
- F. Employee complaints of Program ineffectiveness.

Corrective measures will be documented by revising the Program as necessary. Employees will participate in revising the Program, and will be trained on any changes.

XV. FAILURE TO COMPLY/DISCIPLINARY ACTION

It is both desirable and mandatory that all employees fully comply with this Program. Those employees who demonstrate a wanton disregard for these safety requirements increase the hazards to both themselves and their fellow employees.

Discipline for employees covered by collective bargaining agreements who fail to comply with the Program provisions shall be administered as set forth in the applicable collective bargaining agreement. For any employees not covered by collective bargaining agreements, discipline shall be administered consistent with the then applicable personnel policies of the City.

XVI. CONFINED SPACE ENTRY FORM

The Confined Space Entry Form, Appendix "A" to this Program, is hereby approved and shall be used by City employees when encountering confined space entry situations.

APPENDIX "A"

CONFINED SPACE ENTRY PERMIT

Date and Time of Issue: _____

Date and Time of Expiration: _____

Job Description/Purpose of Entry: _____

Confined Space to be Entered/Location: _____

Employees Assigned: _____

C. S. Entry Supervisor

C. S. Entrant(s)

C.S. Attendant(s)

Hazards of Confined Space to be Entered: _____

Acceptable Entry Conditions: _____

Measures Used to Isolate Space and Eliminate/Control Hazards: _____

Sampling Equipment to be used:	Type	Serial #	Date of Calibration	By Whom
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

Tests Conducted:	Time	Results	Initials	Time	Results	Initials
O ₂ Deficiency	_____	_____	_____	_____	_____	_____
Flammability	_____	_____	_____	_____	_____	_____
Toxicity	_____	_____	_____	_____	_____	_____

Have the following precautions been taken? YES NO

Discussion of Oxygen deficiency detection, elimination and inserting procedures? _____ _____

Discussion of probable gasses to be encountered and proper ventilation procedure. _____ _____

Discussion of need, use, and availability of respirators and serviceability? _____ _____

Discussion and review of testing equipment and calibration? _____ _____

Discussion, use, testing of serviceability of rescue gear? _____ _____

Discussion of noise problems, temperatures, weather conditions? _____ _____

Equipment Provided for Safe Entry: _____

Communication Procedures for Entrants and Attendants: _____

Rescue and Emergency Services Available (include contact information and equipment to use): _____

Other Permits Acquired for Work in this Confined Space: _____

Problems Encountered During Entry/Other Information Needed for Safety in this Confined Space: _____

NO ONE SHALL ENTER ANY CONFINED SPACE UNDER ANY CONDITIONS UNTIL IT HAS BEEN PROPERLY TESTED FOR O₂ DEFICIENCY AND TOXIC OR FLAMMABLE GASSES AND APPROPRIATE PROCEDURES ARE FOLLOWED.

I certify that I have evaluated the situation and assigned personnel and the procedures to be followed are in compliance with the current City Confined Space Entry and Rescue Program.

Name

Title

Date

[REMAINDER OF PAGE INTENTIONALLY LEFT BLANK]

Section 2. The Confined Space Entry and Rescue Procedures set forth in Resolution 1994-011 are hereby repealed.

Section 3. If any section, sentence, clause, or phrase of this Resolution shall be held to be invalid or unconstitutional by a court of competent jurisdiction, such invalidity or unconstitutionality shall not affect the validity or constitutionality of any other section, sentence, clause, or phrase of this Resolution.

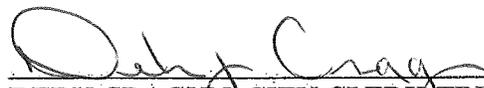
Section 4. This Resolution shall be effective immediately upon passage by the City Council.

APPROVED by the City Council of the City of Deer Park, Washington at an Open Public Meeting the 20th day of May, 2015.

APPROVED:


MAYOR ROBERT WHISMAN

ATTEST/AUTHENTICATED:


DEBY CRAGUN, CITY CLERK/TREASURER