CITY OF APPLETON PERSONNEL POLICY	Confined S 29 CFR	TLE: Space Entry R 1910.146 32.29 <del>COMM 32.28</del>		
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#### I. PURPOSE

To provide requirements for practices and procedures guidelines to all employees who are involved with entering confined spaces and to identify and train employees required to enter confined spaces in accordance with the Department of Safety and Professional Services (SPS 332.28 & 332.29) and the Occupational Safety and Health Administration (OSHA 29CFR 1910.146).

#### II. POLICY

To provide a safe work environment for City employees who enter confined spaces. Violations of this policy will result in disciplinary action, up to and including discharge.

## III. DISCUSSION

The policy defines the specific procedures for safe entry into confined spacesspecifically how employees will safely enter confined spaces.

### IV. DEFINITIONS

- A. Air sampling Measuring and evaluating the amount of toxic material in the air a worker is exposed to. Samples shall be taken continuously in the breathing zone of the worker.
- B. Alternate Entry Confined Space One in which:
  - 1. The only hazard is actual or potential hazardous atmosphere.
  - 2. Continued ventilation and air monitoring is sufficient to ensure the space is safe for entry.
- C. Asphyxiants Certain gases, vapors and fumes that may cause interruption of breathing, unconsciousness and death from oxygen deficiency or toxicity.
- D. Atmosphere Refers to the gases, vapors, mists, fumes and dusts within a confined space.
- E. Attendant A trained individual stationed outside of the confined space that performs all attendant duties.
- F. Authorized Entrant A trained employee who is authorized by the employer to enter a confined space.

- F.G. Blanking or Blinding The absolute closure of a pipe, line or duct by the fastening of a solid plate that completely covers the bore and that is capable of withstanding the maximum pressure of the pipe, line or duct with no leakage beyond the plate.
- G.H. Contaminant Any organic or inorganic substance, dust, fume, mist, vapor or gas, the presence of which can be harmful or hazardous to human beings.
- Confined Space A confined space that is large enough and so configured that an employee can bodily enter, has limited or restricted means for entry or egress and is not designed for continuous employee occupancy.
- H.J. Double Block and Bleed The closure of a line, duct or pipe by closing and locking/tagging two in-line valves and by opening and locking/tagging a drain or vent in the line between the two closed valves.
- K. 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.
- L. Entry The action by which a person passes through an opening into a permit-required 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.
- <u>L.M.</u> Entry Permit A permit required for entry into a confined space.
- N. 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: flammable gas, vapor or mist in excess of 10 percent of its lower flammable limit (LFL), airborne combustible dust at a concentration of any substance for which the permissible exposure limit is exceeded or any other atmospheric condition that is immediately dangerous to life or health.
- O. Hot Work Permit The employer's written authorization to perform operations capable of providing a source of ignition (e.g., welding, cutting, burning, heating, etc.).
- J.P. 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.
- Q. Isolation The process by which a permit space is removed from service and completely protected against the release of energy and material into the space by such means as: blanking or blinding, 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 all mechanical linkages.
- K.R. 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.
- S. Non-Permit Confined Space A confined space that does not contain or have the potential to contain any hazard capable of causing death or serious physical harm.
- T. Oxygen Deficiency Deficient Atmosphere An atmosphere which contains less than 19.5% oxygen by volume.
- U. Oxygen Enriched Atmosphere An atmosphere containing more than 23.5% oxygen by volume.
- V. Reclassified Confined Space See section VI(C)(5) of this policy for more information.
- W. Permit Required Confine Space (Permit Space) A confined space that has one or more of the following characteristics: contains or has a potential to contain a hazardous atmosphere, contains a material that has the potential for engulfing an entrant, has an internal configuration such that an entrant could be trapped or asphyxiated by inwardly converging walls or by a floor which slopes downward and tapers to a smaller cross-section, or contains any other recognized serious safety or health hazard.
- L.X. Rescue Services the personnel designated to rescue employees from permit spaces.
- M.Y. SCBA Self contained breathing apparatus

#### V. RESPONSIBILITIES

- A. Duties of <del>Departmental Safety Coordinator or Confined Space Entry Supervisor (Departmental Safety Coordinator or Designee):</del>
  - Notify Rescue Service 48 hours prior to entry. Coordinating with the Appleton Fire
    Department (AFD) 48 hours prior to entry and verifying that rescue or other emergency
    personnel are available, ensuring the means for summoning them are operable if an
    emergency occurs, and suspending the entry when AFD personnel become unavailable.
    Entry may resume after AFD rescue personnel are available again.
  - Know 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.
  - 2.3. Conduct/coordinate hazard assessments to determine the classification and location of the confined spaces within the respective department.
  - 4. Review for completeness and sign the entry permit. Development of specific entry procedures for each applicable confined space. Departments will be responsible for developing, maintaining records of, revising (as needed) and making accessible to applicable employees, their specific confined space entry procedures.
  - 3-5. Verify, by checking, that the appropriate entries have been made on the permit, that all atmospheric tests specified by the permit have been conducted and that all procedures and equipment specified in the permit are in place before endorsing the permit and allowing entry to begin. Note: Any employee who enters the space shall be provided with an opportunity to observe the pre-entry testing.
  - 4.6. Maintain completed entry permits, calibration records and other <u>air sampling test</u> requirements under the confined space entry law-records as required.
  - 5.7. Coordinate posting of appropriate danger/caution signs by each confined space.
  - 6.8. Supervise the selection and use of respirators in conjunction with the City's Respiratory Protection Policy.
  - 7-9. Conduct/Supervise employee training and submit sign in sheets to H.R. Conducting and/or coordinating employee confined space entry training and submitting training records to the Human Resources Department.
  - 8-10. Conduct annual evaluation of the overall program to determine its continued effectiveness Assist in the annual evaluation of the overall program to determine its continued effectiveness.
  - 9.11. Ensure all assigned personnel are knowledgeable of all aspects of the confined space entry program.
  - 10-12. Ensure that employees comply with all elements of the confined space entry program.
  - 13. Ensure appropriate PPE and equipment is properly utilized and maintained and inspected annually.
  - 14. Ensure that any conditions making it unsafe to remove an entrance cover shall be eliminated before the cover is removed.
  - 15. Ensure that when entrance covers are removed, the opening is promptly guarded by a railing, temporary cover, or other temporary barrier that will prevent an accidental fall through the opening and it will also protect each entrant working in the space from foreign objects entering the space.
  - 16. Removing unauthorized individuals who have entered or who attempt to enter any permit space.
  - 17. Determining that entry operations remain consistent with terms of the entry permit and that acceptable entry conditions are maintained.
  - 41.18. Terminating the entry and canceling the permit whenever required and notifying AFD when the entry has been terminated.

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

#### B. Duties of Authorized Entrants:

- Know <u>and recognizing</u> the hazards that may be faced during entry, including information on the mode, signs or symptoms, and consequences of exposure.
- 2. Receive training relating to confined space entry prior to any entry.
- 3. Know how to properly use all equipment required for entry into confined spaces.
- Communicate with the attendant as necessary to enable the attendant to monitor your status. Communicate with the attendant as necessary to enable the attendant to properly monitor entrant status.
- 5. Verifying the conditions in the permit space are acceptable for entry through the duration of the authorized entry. For example, regularly testing the atmosphere within the space to ensure that continuous forced air ventilation is preventing the accumulation of a hazardous atmosphere.
- 6.5. Alert the attendant whenever there are warning signs or symptoms of exposure to a dangerous situation or a prohibited condition. Alerting the attendant when hazardous conditions, dangerous situations, prohibited conditions, warning signs, or symptoms of exposure are detected, recognized, identified or suspected.
- 67. Exit the confined space <u>immediately</u> when the following arises:
  - a. An order to evacuate is given by <u>other entrants, the</u> attendant or the entry supervisor.
  - b. When a prohibited condition or dangerous situation arises.
  - c. When the an evacuation alarm is activated.
  - d. When warning signs or symptoms of exposure are identified or recognized.
  - Complying with all other aspects of this confined space entry program.

#### C. Duties of Attendant:

and to alert

- 1. Receive training relating to confined space entry.
- Knowing the hazards that may be faced during entry, including information on the mode, signs or symptoms, and consequences of exposure.
- Verifying the conditions in the permit space are acceptable for entry throughout the duration of an authorized entry.
- 34. Continuously monitoring <u>all</u> entrant(s) in the confined space <u>including maintaining an</u> accurate count of those individuals in the permit space.
- 45. Remain outside the confined space during entry operations until relieved by another attendant.
- 56. Communicate with authorized individuals entrants as necessary to monitor their status \_\_\_\_\_\_of the need to evacuate the confined space.
- <u>76.</u> Do not enter confined space to perform a rescue. Summon rescue and other emergency services as soon as it is determined that an entrant(s) may need assistance to escape.
- 78. Monitor activities inside and outside the space to determine if it is safe for authorized entrant(s) to remain in the space and order the authorized entrant(s) to evacuate the space\_immediately under the following conditions:
  - a. If you detect a prohibited condition (e.g., entry by unauthorized individual, etc.).
  - If a hazardous atmosphere is detected during entry, entrants and attendants must immediately leave the space. The space must then be evaluated to determine how the hazard atmosphere developed and the steps to implement to protect employees from the hazardous atmosphere before any subsequent entry takes place.
  - bc. If you detect the behavioral effects of hazard exposure in an authorized entrant.

- ed. If you detect a situation outside the space that could endanger the authorized
- de. If you cannot effectively and safely perform all the duties required.
- 98. Warn unauthorized personnel to stay away from the confined space.
- 109. Advise unauthorized personnel that they must exit the confined space immediately if they have entered the confined space.
- 1<u>1</u>0. Inform the authorized entrant(s) and the supervisor, if applicable, <u>if of unauthorized person(s)</u>.
- 124. Perform non-entry rescue as specified by the City's rescue procedure, as in hoisting entrant from a vertical confined space.
- 14. Summoning rescue and other emergency services as soon as the attendant determines that entrants may need assistance to escape from the permit space hazards.
- D. Duties of Rescue Services (Appleton Fire Fighters):
  - The City will ensure that each member of the rescue service will be provided with, and a
    are trained to use properly, the personal protective and rescue equipment necessary for
    making rescues from confined spaces.
  - Rescue team members will be trained to perform their assigned duties. Each member must also receive the training required of authorized entrants (CPR and First Aid).
  - Rescue team members will practice making permit space rescues at least once every twelve months using simulated rescue operations.
  - The City shall inform the rescue service of the hazards that they may confront encounter
    called on to perform a rescue.
  - The City will provide the rescue service with access to all permit spaces from which
    rescue may be necessary so that the rescue service can develop appropriate rescue plans
    and practice rescue operations.
  - Based on hazard(s) and time requirements for Rescuer(s) to make entry, the Rescue Team
    will be on site or positioned in such a location that response would meet the necessary
    response time.
- E. Responsibilities relating to outside contractors working on City projects:
  - 1. The City as the "host employer" must:
    - a. Inform the contractor that the workplace contains permit spaces and that permit space entry is allowed only with a permit space program.
    - b. Apprise the contractor of hazards and elements of the space as well as our experience in the space and the reasons the space is identified as a permit space.
    - c. Apprise the contractor of any precautions or procedures the City has implemented for the protection of City employees in or near permit spaces where contractor personnel will be working.
    - ed. Coordinate entry when both City employees and contractor personnel will be working in or near permit spaces.

#### ₩.VI.\_PROCEDURES

when

A. Workplace Evaluation and Confined Space Classification - The Classification evaluation and identification of confined spaces will be made under the guidance of OSHA 29 CFR 1910.146 (see Appendix A) (See Exhibit II for a listing of City's confined spaces. A detailed assessment will be made of each space to determine the type and location of each space, its approximate dimensions, number of exits, the reason(s) for entry, actual or potential health and safety hazards, and its classification. The classification of confined spaces are made under the guidance of Appendix A/OSHA 29CFR 1910.146.Spaces will be classified as one of the following:)

- 1. Non-Ppermit Confined Space
- a. A Non-permit space is a confined space with an atmosphere within the limits specified below, or a Permit Required Space that only contains an atmospheric hazard, that can be changed—through continuous ventilation and monitoring—to meet the following criteria.
- Oxygen content of at least 19.5% or more, but not more than 23.5%.
- A hydrogen sulfide content of less than 10 parts per million (PPM) or a carbon monoxide content of less than 35ppm.
- A combustible gas content less than 10% of the lower explosive level (LEL).
- An exposure level for any hazardous substance determined to be present, which is at or below the Threshold Limit Value (TLV).
- 2. Permit Required Confined Space (Permit Space) Appendix B shall be completed to detail what steps were taken to eliminate hazards prior to entry into the space.
- A Permit Required space is a confined space that has one or more of the following characteristics:
- Contains, or has the potential to contain, a hazardous atmosphere.
- Contains a material that has the potential for engulfment of an authorized entrant.
- 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 small cross section.
- Contains any serious safety or health hazards.
- 3. Reclassified Confined Space \_A confined space may be reclassified from a permit space to a nNon-permit space under the following conditions:
  - If the confined space poses no atmospheric hazard and if all hazards within the space are eliminated without entry into the space, the Permit space may be reclassified as Non-permit for as long as the non-atmospheric hazards remain eliminated.
  - If it is necessary to enter the Permit space to eliminate hazards, other than explosive atmospheres, such entry shall follow the Permit requirements. If testing and inspection during that entry demonstrates that the hazards within the Permit space have been eliminated, the space may be reclassified.
  - Exhibit III must be completed for a reclassification and the steps listed on this designation must be followed. If the permit space poses no actual or potential atmospheric hazards and if all hazards withing the space are eliminated without entry into the space; the permit space may be reclassified as a non-permit space if the non-atmospheric hazards remain eliminated.
  - Employees entering a confined space through this re-classification process must complete Appendix C detailing what steps were taken to eliminate the hazards prior to entry into the space.
  - Note: Control of atmospheric hazards through continuous forced air ventilation does not constitute the elimination of hazards and cannot be used to re-classify a confined space.
- 4. Alternate Entry Confined Space A confined space may be entered through the alternate entry process if all the following conditions are met:
  - If the only hazard posed by the confined space is an actual or potential hazardous atmosphere.
  - If it can be demonstrated through air sampling and continuous forced air ventilation that entry will be safe.

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 Employees entering a confined space through this alternate entry process must complete Appendix D detailing the steps taken to verify safety entry.

### Confined Spaces That Will Never Be Entered

B. Identification of Confined Spaces – Employees must be made aware of the existence, location, and danger of permit-required confined spaces. This can be done by posting signs at the access points to the permit spaces unless other equally effective means of warning personnel are thoroughly communicated.

#### B.C. Entry Procedures - Permit Required

<ol> <li>General Safet</li> </ol>	y Rules and	Work Practices:
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- No unauthorized open flame allowed, and no employee may smoke within 10 feet of a confined space per WI 332.29.
- Any confined space with an atmosphere which has a combustible gas content of 10% or more of the lower explosive limit shall not be entered even if a breathing apparatus or respirator used.
- Boiler and Vessels Before any employee enters a boiler or any other vessel type confined space (whether permit or non-permit), the following safety precautions shall be implemented.
- Ensure that the interior temperature of the confined space closely equals
  the ambient temperature outside the vessel before any entry is made into
  it to avoid extreme hot or cold temperatures.
- ii. Ensure that hazardous materials (solids and liquids) inside the work area are removed from the vessel as much as possible before entry is allowed.
  - iii. Ensure that all lines leading into and away from the vessel are addressed appropriately regarding lockout/tagout requirements.
  - iv. Develop proper confined space entry procedures for the specific boiler employees will be entering.
- d. Traffic Safety Entrances to all confined spaces that are in the streets shall be guarded in accordance with the following requirements when work is required at these spaces (in accordance with SPS 332.29):
- i. Employee shall activate the following warning lights upon approach to an entrance to a confined space: vehicle's beacon light and vehicle's fourway hazard flashers.
- A vehicle shall be parked to permit traffic to flow in an unobstructed manner, and where possible, to provide protection for the employees.
  - iii. Employee shall park the vehicle in such a manner that the vehicles exhaust fumes cannot accumulate in the confined space. If this is not possible, the vehicle's exhaust pipe shall be extended away from the confined space.

    Note: If a hazard cannot be avoided, this may require further consideration
    - Note: If a hazard cannot be avoided, this may require further consideration such as changing a non-permit space into a permit space.
- iv. Employees shall properly place traffic safety cones around the manhole to adequately warn oncoming traffic. 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.
- c. Cleaning Purposes: When a confined space is required for cleaning purposes, the entry supervisor, shall review and authorize the procedures and processes to be used while cleaning the confined space before entry can take place.

Considerations for cleaning include:

	i.	Initial cleaning shall be done, if possible, from outside the tank.
	ii.	The cleaning agent or process itself may create a hazard within a confined
		space and must be accounted for. Therefore, when additional hazards are
		created or possible by the cleaning process, the entry supervisor shall
		develop additional safety procedures to control the newly created hazards
		and ensure employee safety. These special precautions shall be developed
<del></del>		before a confined space cleaning process takes place. Note: this may
<del></del>		require reclassification of a non-permit space to a permit space.
f.	Use c	f Equipment and Tools Inside the Confined Space: When entry into a
		ned space requires the use of equipment and tools inside the space, this
		ment shall be inspected and must meet the following requirements:
	i.	Hand tools must be in good condition.
	ii.	Portable electrical tools shall be listed and rated appropriately for the
		environment they will be used in.
	iii.	All electrical grounds must be checked before electrical equipment is used
		in a confined space. Ground fault circuit protectors should be used
		whenever possible to protect employees from electrical shock when
		working in damp or wet locations.
	iv.	All electrical cords, tools, and equipment must be constructed of a heavy-
		duty, double-insulated cord and/or equipped with a 3-prong plug.
	v.	All electrical cords, tools and equipment must be visually inspected for
		defects before being used in a confined space. If found defective, they
		must either be replaced or repaired before they are to be used in a confined
		space.
	vi.	Cylinders of compressed cylinders (except those that are part of a SCBA
		or resuscitation equipment) must not be taken into a confined space.
	vii.	Ladders must be adequately secured or of a permanent type that provides
		the same degree of safety. Note: Permanent ladders must be inspected for
		rust or corrosion and repaired or replaced, if necessary.
	viii.	The tool or process itself may create a hazard within a confined space and
		must be accounted for. Therefore, when additional hazards are created or
		possible while using a given tool in a confined space (e.g., grinding,
		welding, sanding, etc.), the entry supervisor shall develop additional safety
		precautions (e.g., utilize hot work permit, etc.) to control the newly created
		hazards and ensure employee safety. These special procedures shall be
		developed before an entry takes place. Note: this may require
		classification of a non-permit space to a permit space.
	ix.	For powered tools utilizing compressed air, ensure the air source for the
		compressor is safe and not drawing any contaminated air into the confined
		space.

- 2. Confined Space That Will Never Be Entered: If employees will never enter permit spaces, the responsible department shall take effective measures to prevent employees from entering the permit space such as locking the space entryway or sealing it off and marking the space as a permit space that may never be entered. No further entry procedures are required if the space will never be entered, and it is safe to be left in this status. If there are changes in the use or configuration of the space, the space shall be reevaluated and if necessary, the space will be re-classified and entry procedures will be established.
- 4.3. Permit Required Confined Space (Permit Space) Entry Procedures:

- a. The confined space entry permit (Appendix B) must be completed before approval can be given to enter a permit required confined space.
- A written copy of operating and rescue procedures, as required by this policy shall be at the work site for the duration of the job.
- c. The entry permit checklist shall be kept at the work site for the duration of the job. If circumstances dictate an interruption in the work (the entrant within the confined space leaves the confined space) the permit must be re-evaluated, and a new checklist completed.
- d. The atmosphere within the authorized entrant's immediate area shall be continuously monitored for oxygen, combustible gas, potential toxic air contaminants and any other hazardous substance which the employer has reason to believe may be present in the confined space. Note: Entry personnel should use caution as there may be unanticipated compounds within the space that are undetectable by gas meters. An alarm only type gas monitor may be used. Meters shall be calibrated per manufacturer's recommendations. Meters shall be "bump" tested prior to metering the atmosphere. Testing shall be conducted by a trained individual only.
- A written record of the pre-entry test results shall be made and kept at the work site for the duration of the job. See Exhibits I and/or II.
- A monitoring probe shall be lowered slow enough to detect stratification of atmosphere contamination at all levels.
- g. The authorized individuals will certify in writing based upon the results of the pre-entry testing that all hazards have been eliminated.
- h. Affected employees shall be able to review the testing results.
- Call Rescue Service (Appleton Fire Dept.) with a 48-hour notice (recommended). (Contact Fire Shift Commander at 920-832-5815)
- j. When dangerous air contamination is attributable to flammable and/or explosive substances, lighting and electrical equipment shall be Class I, Division I rated per national electrical code and no ignition sources shall be introduced into the area.
- k. Entry is prohibited for 10% or greater <u>LEL lower explosive limit (LEL)</u> atmospheres.
  - While in the confined space, if the air quality falls outside of the limits specified on pages 2 and 3the limits for a safe atmosphere, the authorized entrant shall exit the confined space.
  - Wentilation may not be used in lieu of monitoring devices. An employee may not enter the space until forced ventilation has eliminated any hazardous atmosphere.
  - n. No employee may enter a confined space without an attendant stationed at the entrance of the permit required confined space.
  - If the attendant must leave <u>his/hertheir</u> post, the entrant must immediately exit the confined space.
  - p. A flagman who is directing traffic may not serve as the attendant. The attendant must remain outside the confined space for the duration of entry operations.
  - q. While in the confined space, an authorized entrant shall have voice or other means of communication with the attendant.
  - An authorized entrant entering vertically into the confined space shall wear a full body harness secured to a retrieval line.
  - s. Entrants must obtain and use the proper <u>personal protective equipment (PPE)</u>, tools and emergency rescue equipment.
  - t. An authorized entrant who makes a horizontal movement into a confined space such as a sewer, or who descends in such a manner that renders a mechanical retrieval device useless for a rescue attempt, shall wear a full body harness.

			Wear a self-contained positive pressure breathing apparatus (SCBA) or
			type C airline respirator.  Wear a full body harness, ding is prohibited for the attendant and the entrant.  Aures—Non-Permit Required Confined Space Entry Procedures: confined space checklist (Exhibit I) must be completed before entering a non-it required confined space.  Itten copy of operating and rescue procedures, as required by this policy shall the work site for the duration of the job. If metallic the work site for the duration of the job. If metallic the work site for the duration of the job. If metallic the work site for the duration of the job. If metallic the work site for the duration of the job. If metallic the work site for the duration of the job. If metallic the work site for the duration of the job. If metallic the work site for the duration of the job. If metallic the work site for the duration of the job. If metallic the work site for the duration of the job. If metallic the work in the confined space in the promition of the job. If metallic the work in the authorized entrant's immediate area shall be unususly monitored for oxygen, combustible gas, potential toxic air minimants and any other hazardous substance which the employer has reason live may be present in the confined space. An alarm only type gas monitor be used. Meters shall be calibrated per manufacturer's recommendations. The shall be "bump" tested prior to metering the atmosphere. Testing shall be used by a trained individual only.  It in record of the pre-entry test results shall be made and kept at the work or the duration of the job. See Exhibits I and/or II.  Initiative probe shall be lowered slow enough to detect stratification of sphere contamination at all levels.  Authorized individuals will certify in writing based upon the results of the intry testing that all hazards have been eliminated.  The confined space is the air quality falls outside of the limits specified gas 2 and 3, the authorized entrant shall exit the confined space.  In the confined space, if the air quality falls outside of the limits specified gas 2 an
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	<del>2</del> 4.	Entr	v Procedures — Non-Permit Required Confined Space Entry Procedures:
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		<del>b.</del>	
			be at the work site for the duration of the job.
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		<del>d.</del>	
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		h.	
		<del>i.</del> —	When dangerous air contamination is attributable to flammable and/or explosive
		<del>i.</del>	
		<u>k.                                    </u>	
		1.	
			ii. Wear a full body-harness: Smoking is prohibited for the attendant and the entrant:  Entry Procedures — Non-Permit Required Confined Space Entry Procedures:  a. The confined space checklist (Exhibit I) must be completed before entering a repermit required confined space.  b. A written copy of operating and rescue procedures, as required by this policy is be at the work site for the duration of the job.  c. The permit checklist shall be kept at the work site for the duration of the job. It circumstances dictate an interruption in the work (the entrant(s) within the confined space leaves the confined space) the permit must be re-evaluated and new-checklist completed.  d. The atmosphere within the authorized entrant's immediate area shall be continuously monitored for oxygen, combustible gas, potential toxic air contaminants and any other hazardous substance which the employer has rease to believe may be present in the confined space. An alarm only type gas monit may be used. Meters shall be calibrated per manufacturer's recommendations. Meters shall be "bump" tested prior to metering the atmosphere. Testing shall conducted by a trained individual only.  e. A written record of the pre-entry test results shall be made and kept at the worf site for the duration of the job. See Exhibits I and/or II.  f. A monitoring probe shall be lowered slow-enough to detect stratification of atmosphere contamination at all levels.  g. The authorized individuals will certify in writing based upon the results of the pre-entry testing that all hazards have been eliminated.  h. Affected employees shall be able to review the testing results.  When dangerous air contamination is attributable to flammable and/or explosisubstances, lighting and electrical equipment shall be introduced into the are Entry is prohibited for 10% or greater LEL atmosphere.  k. While in the confined space, if the air quality falls outside of the limits specific on pages 2 and 3, the authorized entrant shall exit the confined space.  Ventilation may not be us
		b.	
m.	Smoking is p	<del>rohibi</del> t	
	5.	Pern	nit-Required Confined Spaces That Can Be Reclassified to Non-Permit Confined
		Spac	es: A permit space can be reclassified to a non-permit space if the following
		cond	
		a.	All actual and potential atmospheric hazards have been eliminated (i.e. draining
			chemical tanks of their contents, purging any residual chemicals with water, and
			ventilating the space after purging is complete). If the permit space poses no
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	this type. The certification must document how all hazards in a permit space were eliminated and will remain eliminated. This document at a minimum must include the date, the location of the space and the signature of the person making the determination. It must be available to the employee(s) entering the space or to that employee's authorized representative. Appendix C should be utilized for the document this reclassification of permit spaces.  e. If a permit confined space is reclassified to a non-permit space prior to entry of it, an attendant, supervisor and rescue service provisions are not required.  Spaces reclassified to non-permit status may be entered as such upon satisfying the conditions described above. However, if entry is necessary to eliminate permit-space hazards, such entry must be done under permit conditions and following the permit entry requirements. Once elimination of the hazards has been completed and verified, non-permit status may be granted.  Permit-Required Confined Spaces Utilizing Alternate Procedures: Alternate entry procedures may be used when the only hazard present in a confined space is an actual or potential atmospheric hazard that can be controlled through continuous forced air ventilation. If alternate entry procedures are used, an attendant or entry supervisor is not required, and rescue provisions are also not required. Training and entry documentation (completed Appendix D) is required though.  a. Requirements to Utilize Alternate Entry Procedures:  i. The only hazard by the confined space is an actual or potential hazardous atmosphere.  ii. Continuous forced air ventilation is sufficient to maintain a safe space.  The ventilation shall be directed to the immediate areas where employees are or will be present and will continue until all employees have left the space. The air supply shall be from a clean source and not increase hazards within the space.  iii. Monitoring and inspection data that supports the space is safe is
	that employee's authorized representative. Appendix C should be utilized for the
	document this reclassification of permit spaces.
	e. If a permit confined space is reclassified to a non-permit space prior to entry of it,
	an attendant, supervisor and rescue service provisions are not required.
	Spaces reclassified to non-permit status may be entered as such upon satisfying the
	permit status may be granted.
	D
<u>6.</u>	• • • • • • • • • • • • • • • • • • • •
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	space. The air supply shall be from a clean source and not increase
	tested to ensure that ventilation is adequate. If a hazardous atmosphere is
	1) Each employee shall leave the space immediately.
	2) The space shall be evaluated to determine how the hazardous
	B 44 (04

	3) Measures must be taken to protect employees from the hazardous
	atmosphere before any entry can be made.
iv.	If initial entry is necessary to obtain the atmospheric sampling data, it
	shall be performed with the procedures for permit space entry.
v.	Entry documentation and atmospheric testing data must be made available
	to entrants.

#### 37. Rescue Procedures

- a. The attendant shall call 911 for rescue service (Fire Department) on a two-way radio or cellular phone.
- b. The attendant shall perform rescue only if <a href="he/shethey">he/shethey</a> can remove the disabled via <a href="his/hertheir">his/hertheir</a> lifeline. The attendant <a href="may-must">may-must</a> not enter the confined
- c. If the rescue cannot be performed via the lifeline, the following will take place:
  - i. The attendant shall notify the supervisor.
  - The attendant will continue to monitor the activities inside and outside the confined space.
  - iii. When the Fire Department arrives, fire department personnel will determine if it is safe to conduct a rescue operation.
  - All rescue workers shall follow all Appleton Fire Department confined space policies and standard operating guidelines (SOG).
  - When dangerous air contamination is attributable to flammable and/or explosive substances, lighting and electrical equipment shall be Class I, Division I rated per national electrical code and no ignition sources shall be introduced into the area.

### C.D. Training

worker space.

- 1. All personnel involved in confined space entry shall receive training on a yearly basis to recognize, understand and control the hazards found in confined spaces.
- The department safety coordinator, supervisor or authorized individual will provide each
  employee with a copy of the written Confined Space Entry Policy and the Respirator
  Policy
- Each department/division that falls under confined space entry requirements must coordinate First Aid and CPR training for all authorized entrants and attendants.
- 4. Training records will be sent to the H.R. Generalist.
- 5. <u>Training shall be provided to each authorized employee: Training and testing shall be provided yearly to each affected employee and shall establish proficiency in all areas.</u>
  - a. Before an employee is first assigned to confined space entry duties. Before the employee is first assigned to confined spaces.
  - b. Before there is a change in assigned duties. Before there is a change in duties.
  - Whenever there is a change in permit space operations that presents a hazard about which an employee has not previously been trained.
  - d. Whenever it is believed either that there are deviations from established entry procedures or there are inadequacies in the employee's knowledge.

Whenever there is a change in confined space operatives that presents a hazard in which an employee has not been previously trained.

Training and standard testing shall establish employee proficiency in the duties described in this policy and when new or revised procedures are implemented.

Commented [BCM1]: Is this being done?

Page 12 of 24

- 6-3. Each department/division that falls under confined space entry requirements must coordinate First Aid and CPR training for all authorized entrants and attendants.
- 7.4. The trainer will certify that the employee meets the City's requirements at the end of the training session.—Training records will be sent to the Human Resources Department.

#### D.E. Record Keeping

- Each department/division involved in confined space entry and the Human Resource Department will maintain the following records:
  - Documents for inspection, repair and calibration results of all monitoring equipment must be retained at least five years by the <u>applicable</u> department.
  - The Human Resource Department will maintain CPR and First Aid training documents.
  - c. The departments must retain documents for inspection and maintenance of all retrieval systems, ropes, harnesses and other entry equipment for at least five years.
  - d.c. Respirator fFit fTesting records that are required yearly will be maintained in the Human Resource Department for a period of five years.
  - e-d. Entry permits must be maintained by individual departments/ divisions for no less than one year. Entry permits must be reviewed to determine if changes are needed in any confined space entry procedures.
  - <u>F.e.</u> SCBA equipment Each department/division will follow the City's Respirator Policy and will maintain their individual records.

#### 2. Respirator Medical Evaluation

a. All employees who are required to wear a respirator to enter confined spaces will complete a medical questionnaire to be reviewed by the City occupational health provider. The occupational health provider will determine if clearance can be granted or if a medical exam will be necessary. The Human Resources Department will maintain clearance records from the occupational health provider. These records will be retained for the worker's employment plus five years.

Commented [BCM2]: Is this being completed?

**Commented [BCM3]:** This document will be deleted as it has been updated in a later appendix.

Confined Entry Page -3-

## RECORDINGS EVERY 5 MINUTES

02	LEL	CO	H2S	TIME
02	LEL	co	H2S	TIME
02	LEL	co	H2S	TIME
02	LEL	co	H2S	TIME
02	LEL	co	H2S	TIME
02	LEL	co	H2S	TIME
02	LEL	co	H2S	TIME
02	LEL	co	H2S	TIME
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O2 _	LEL	co	H2S	TIME
02	LEL	co	H2S	TIME
02	LEL	co	H2S	TIME
02	LEL	co	H2S	TIME
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02	LEL	co	H2S	TIME
02	LEL	co	H2S	TIME
02	LEL	co	H2S	TIME
02	LEL	co	H2S	TIME
_				

Exhibit I



#### UTILITIES DEPARTMENT CONFINED SPACE ENTRY CHECKLIST FOR PERMIT AND NON-PERMIT ENTRIES

Revised: 05-16-16

	02	H2S	LEL	СО	О	THER
Initial Readings:						
Readings During Entry:						
				YES	NO	N/A
Do you have a CSE Procedure She	eet that documents th	e hazards in t	the space?			
Has the gas monitor been bump tes for entry?	sted and has the spac	e been tested	l and found safe			
3. Has the space been adequately ver	ntilated?					
4. Have all machinery, pumps, etc., as	ssociated with the spa	ace been lock	ed out?			
5. Have all chemical and / or pressuriz been shut off and locked out?	red lines which can o	pen into the c	onfined space			
Does the employee entering the cor Roster)?	nfined space have the	e proper PPE	(refer to the PPE			
7. Does the worker have all of the prop	per tools for the work	to be perform	ied?			
8. Has the worker been fitted with a sa	afety harness and life	line? (Permit	Required)			
9. Has adequate and safe lighting bee	n provided?					
<ol> <li>Has one attendant been assigned to to do if the worker in the confined sp</li> </ol>	o watch the worker ar pace encounters diffic	nd has he/she culties? (Perm	been told what it Required)			
11. Have employees involved been inst	ructed on the safe m	ethod of doing	this job?			
12. Has the rescue service (AFD) been duty Shift Commander or Special Opera	ations Battalion Chief.	(Permit Requ	uired)			
f you have answered "no" to any of the previou			r supervisor.		•	
Hard Hat *	Gas Monitor *	nent Needed:	Barricades		Prote	ctive Clothi
Safety Harness	Fire Extinguisher		Gloves		Life L	ine
Hearing Protection SCBA or SAR	Goggles Safety Glasses		Respirator Other (Specify)			
*Mandatory equipment for all entries  have inspected and verified each require edone safely and in compliance with the	ement on this permit a			e state th	at this w	ork can
, dono carery and in compilation man are	ruice of the only of the	, ppiotoni				

**Commented [BCM4]:** I suggest this exhibit be deleted and replaced with our revised permit found later in this policy rewrite.

## EXHIBIT II



## City of Appleton

## Confined Space Entry

Identification of Confined Space	Access to	Level Designation
All new construction of manholes shall be considered non-permit until		
such time that the system is placed	Тор	Non-permit
in use, or there is		
evidence of any type of contaminants.		
Sanitary and Storm manholes with any type of contaminant is considered Permit. Required (e.g. sludge, water, sewage)	Тор	Permit
Horizontal in any sewer pipe.	Тор	Permit

Revised: 10/2008

Commented [BCM5]: I suggest this not be part of the confined space policy as it is department specific. All department-specific items will be retained by each applicable department. In addition, the guidance on new construction of manholes does not reflect the current requirements of OSHA.

## CITY OF APPLETON **Park and Recreation Department**

## **Confined Space Entry Locations** \*\*On any Full Permit Entries The Appleton Fire Department must be notified 48 hours in advance of entry\*\* 832-5810 Shift Commander

Park and Recreation Service Building	Sump Pump Pit East Sump Pit North	Full Permit Full Permit
City Park	Water Fountain Vault	Non Permit
	Top Of Fountain Light Access Non	Permit
Erb Pool	Surge Pit Sump Pump Pit Main Pump Pit Filter Tank	Full Permit Full Permit Non Permit Non Permit
Highview Park	Plumbing Chase	Non Permit
Kiwanis Park	Plumbing Chase	Alternate Entry
Mead Pool	Manhole #1 Backwash Tanks Surge Pit Main Water Turn On Pit	Full Permit Full Permit Full Permit Full Permit
Pierce Pavilion	Under Stage Access	Non Permit

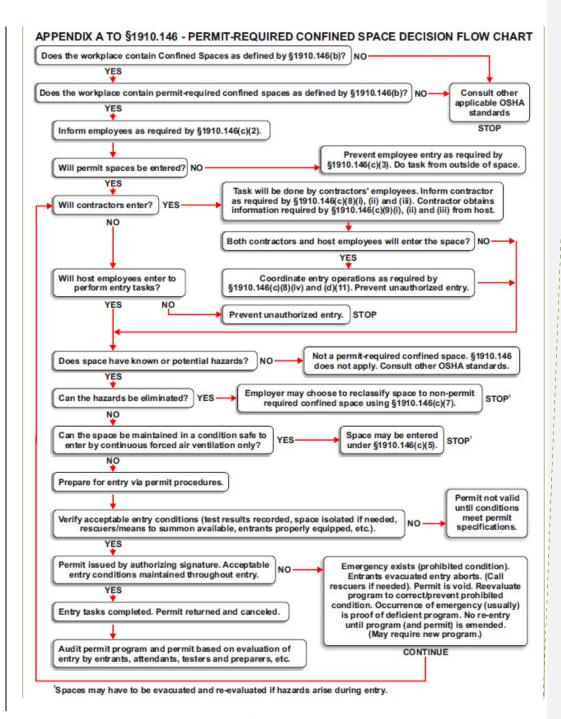
F;\COMMON\Parks\Confined Space Entrance.doc revised 2/7/09

Commented [BCM6]: I suggest this not be part of the confined space policy as it is department specific. All department-specific items will be retained by each applicable department



## (2) Pretreatment Basins

0	Other CA - Note - Note - Transport Fig. 199			
Complex:	City of Appleton - Water Treatment Facility			
Spaces in Inventory:	(2) Pretreatment Basins			
Type/Description:	Pretreatment Basins – basins provide for PAC and KMnO <sub>4</sub> detention time Refer to Water Treatment Operations Manual, Chapter 1, Pretreatment Contact Basins and Softener Inlet Channels  • WT-005-PB-0001			
Asset Codes:	• WT-005-PB-0002			
Access:	Vertical and Horizontal			
Regulatory Hazards:	Vertical Entry – Water Hazard     Hydrated Lime Dust – PRV on lime silos     Employee Work – Employee work activities could cause hazard (e.g., atmospheric, due to employee welding)			
Classification:	Permit-Required – Reclassification potential to Non-Permit with Supervisor approval following reclassification requirements below.			
Completed by:	Chris Shaw/Mark Kessler on 03-01-09			
Reclassification Requirements:	<ol> <li>1910.146</li> <li>Lower inlet gallery access doors opened</li> <li>Notify supervisor of an atmosphere that falls out of the CSE Policy acceptable range</li> </ol>			
	Requires confined space checklist and air monitoring 1919.147			
	LOTO softener agitation pump inlet and outlet valves (closed)     LOTO MWW and CWW discharge valves leading to pretreatment basin (closed)			
	LOTO inlet valve leading to splitter box which discharges to pretreatment basin (closed)			
	LOTO pretreatment basin agitation pump suction and discharge valves (closed)     LOTO isolation valve between north and south softener inlet			
	channels, (closed)			
	6. LOTO hydrated lime silo off-loading valves (2) (closed) AWTF Safety Recommendations			
	1. Ventilator use			
	Two workers in communication with each other     See your supervisor for additional safety instructions			
	<ol> <li>See your supervisor for additional safety instructions</li> <li>Portable lighting w/GFCI protection due to limited space lighting</li> </ol>			
	5. Note: channel agitation piping is fastened to channel floor			



Commented [BCM9]: Add this.

## PERMIT-REQUIRED CONFINED SPACE DECISION FLOW CHART - APPENDIX A (CONTINUED)

#### Referenced Statutes:

- 1910.146(b): Confined space means a space that: is large enough and so configured that an employee can bodily enter and perform assigned work, has limited or restricted means for entry or exit and is not designed for continuous employee occupancy.
- 1910.146(c)(2): If the workplace contains permit spaces, the employer shall inform exposed employees, by posting danger signs or by any other equally effective means, of the existence and location of and the danger posed by the permit spaces.
- 1910.146(c)(3): If the employer decided that its employees will not enter permit spaces, the
  employer shall take effective measures to prevent its employees from entering the permit
  space.
- 1910.146(c)(8)(i) 1910.146(c)(8)(iii): Host employers should inform contractors of any applicable permit spaces, the hazards of them, host employer's experience with them, that entry into permit spaces is only allowed through a permit space program, and the precautions or procedures, if any, that will be taken to protect its employees working in or near the permit space where the contractor will be working.
- 1910.146(c)(9)(i) 1910.146(c)(9)(iii), 1910.146(c)(8)(iv) and 1910.146(d)(11): Contractor should obtain information from the host employer on the hazards of any permit spaces they will be entering. Contractor must coordinate entry operations with host employer if host employer's employees and contractor personnel will be working in or near permit space so that employees of one employer do not endanger the employees of any other employer. Contractor must inform the host employer of the permit space program that the contractor will follow and of any hazards encountered or created while working in permit space either through a debrief or during entry operations.
- 1910.146(c)(5): Reclassification of Confined Spaces: All actual and potential atmospheric hazards have been eliminated (i.e. draining chemical tanks of their contents, purging any residual chemicals with water, and ventilating the space after purging is complete, etc.). If the permit space poses no actual or potential atmospheric hazards and if all hazards within the space are eliminated without entry into the space, the permit space may be reclassified as a non-permit confined space for as long as the non-atmospheric hazards remain eliminated. Control of atmospheric hazards through continuous forced air ventilation does not constitute elimination of the hazards.
- 1910.146(c)(7): Alternate Entry of Confined Spaces: Alternate entry procedures may be used when the only hazard present in a confined space is an actual or potential atmospheric hazard that can be controlled through continuous forced air ventilation. Monitoring and inspection data supports the space is safe is documented. The atmosphere within the space shall be continuously tested to ensure that ventilation is adequate.

Commented [BCM10]: Add this. This is a revision of our previous entry permit



# CITY OF APPLETON APPENDIX B - CONFINED SPACE ENTRY CHECKLIST FOR PERMIT-REQUIRED ENTRIES ONLY

Revised: 09-01-2021

		Da	ate Expires:	Time E	ssued: Expires	:	
Description of confined spa	ice (tank #, etc.)		·		•		
Description of work to be p	erformed in spac	ce:					
		LEL	со				
Permissible Limits for Entry	<i>/</i> :	<u>19.5% - 23.5%</u>	Less than 10 ppm	Under 10%	Less	than 3	<u>5 ppm</u>
Initial Readings:							
Do you have a CSE Proprocedures to follow for			e hazards and the saf	ety	YES	NO	N/A
2. Has the gas monitor be for entry?	een bump tested	and has the space	ce been tested and fo	und safe			
3. Has the space been ac	lequately ventila	ted?					
4. Have all machinery, pu	mps, etc., assoc	ciated with the spa	ace been locked out?				
<ol><li>Have all chemical and been shut off and locker</li></ol>	or pressurized out?	lines which can o	pen into the confined	space			
<ol> <li>Does the employee en Hazard Assessment) a</li> </ol>	tering the confinence to the c	ed space have the ols for the work to	e proper PPE (refer to be performed?	the PPE			
7. Have the communication entrant(s)/attendant be		e.g., verbal contac	ct, radio contact, etc.)	between			
8. Has the worker been fi	tted with a safety	harness and life	line?				
9. Has adequate and safe	e lighting been p	rovided?					
<ol><li>Has one attendant bee do if the worker in the o</li></ol>	n assigned to wa confined space e	atch the worker a encounters difficul	nd has he/she been to ties?	old what to			
11. Have employees involv	ed been instruct	ted on the safe m	ethod of doing this job	?			
<ol> <li>Has the rescue service on-duty Shift Command</li> </ol>	e (AFD) been no der or Special O	tified prior to entry perations Battalio	y? Call 920-832-5815 n Chief.	i, ask for			
<ol><li>If hot work (torching, we written hot work permit</li></ol>		tc.) operations wil	Il take place in the spa	ace, has a			
If you have answ	ered "no" to an	y of the previous Equipment I	<i>questions, stop work</i> Needed:	and contact	your si	ipervis	or.
Hard Hat	Gas Monitor		Barricades	Goggle	s/ Safe	ty Glas	ses
Safety Harness	Fire Extingui	sher	Gloves	Commi	unicatio	ons Equ	ıip.
Hearing Protection	Protective C	lothing	Respirator	Retriev	al Hois	t / Lifeli	ne
SCBA or SAR	Explosion-Pr	roof Lighting	Ventilation Blov	er & Hose			
Other (Specify)		<del>-</del>					
I have inspected and ve done safely and in com	rified each require pliance with the ru	ement on this permi les of the City of Ap	t and to the best of my kepleton.	nowledge state	that thi	s work c	an be
trant/Date		Attendant/Date		Supervisor/Da	te		

Commented [BCM11]: Add this. This is a revision of our previous entry permit.

## APPENDIX B - CONFINED SPACE ENTRY CHECKLIST - CONTINUED

PERIODIC ATMOSPHERIC READINGS: RECORD GAS MEASUREMENTS EVERY 30 MINUTES (AT A MINIMUM). IF ENTRY SUPERVISOR INDICATES MORE FREQUENT RECORDING OF GAS MEASUREMENTS ARE NEEDED, LIST THIS SPECIFIC TIME FREQUENCY HERE: ENTRY SUPERVISOR'S SIGNATURE:							
O <sub>2</sub>	LEL	CO	H <sub>2</sub> S	TIME			
O <sub>2</sub>	LEL	CO	H <sub>2</sub> S	TIME			
O2	LEL	CO	H <sub>2</sub> S	TIME			
O <sub>2</sub>	LEL	CO	H <sub>2</sub> S	TIME			
O <sub>2</sub>	LEL	CO	H <sub>2</sub> S	TIME			
O2	LEL	CO	H <sub>2</sub> S	TIME			
O <sub>2</sub>	LEL	CO	H <sub>2</sub> S	TIME			
O <sub>2</sub>	LEL	CO	H <sub>2</sub> S	TIME			
O <sub>2</sub>	LEL	CO	H <sub>2</sub> S	TIME			
O2	LEL	CO	H <sub>2</sub> S	TIME			
O <sub>2</sub>	LEL	CO	H <sub>2</sub> S	TIME			
O <sub>2</sub>	LEL	CO	H <sub>2</sub> S	TIME			
O <sub>2</sub>	LEL	CO	H <sub>2</sub> S	TIME			
O <sub>2</sub>	LEL	CO	H <sub>2</sub> S	TIME			
O2	LEL	CO	H <sub>2</sub> S	TIME			
O <sub>2</sub>	LEL	CO	H <sub>2</sub> S	TIME			
O <sub>2</sub>	LEL	CO	H <sub>2</sub> S	TIME			
O2	LEL	CO	H <sub>2</sub> S	TIME			
O <sub>2</sub>	LEL	CO	H <sub>2</sub> S	TIME			
O <sub>2</sub>	LEL	CO	H <sub>2</sub> S	TIME			
O <sub>2</sub>	LEL	CO	H <sub>2</sub> S	TIME			
O2	LEL	CO	H <sub>2</sub> S	TIME			
O <sub>2</sub>	LEL	CO	H <sub>2</sub> S	TIME			
Page 22 of 24							



Entrant/Date (if applicable)

# CITY OF APPLETON APPENDIX C - TEMPORARY RECLASSIFICATION OF PERMIT-REQUIRED CONFINED SPACES

## (DO NOT USE FOR SPACES WITH HAZARDOUS ATMOSPHERES) Revised: 09-01-2021

Location: \_ Date Issued: Time Issued: Date Expires: Time Expires: Description of confined space (tank #, etc.): Description of work to be performed in space: 02 H2S LEL CO Permissible Limits for Entry: 19.5% - 23.5% Less than 10 ppm Under 10% Less than 35 ppm Initial Readings: **Guidance of Temporarily Reclassifying Permit-Required Confined Spaces** CSE Procedure Sheets developed and approved for specific areas will identify permit-required confined spaces and the minimum steps necessary to reclassify to a non-permit spaces. To reclassify, employees must verify that the confined space meets the following requirements" Continuous four gas air monitoring is required while in the space.

There is no actual or potential hazardous atmosphere in the confined space.

Any hazards capable of causing death or serious physical harm have been eliminated.

The confined space can be classified as a non-permit space only for as long as all the hazards remain eliminated. If anyone must enter the space to remove the hazards, the space must be treated as a permit-required confined space until all the hazards have been eliminated. List any additional hazards identified that will be eliminated prior to entry which may not be described on the CSE Procedure Sheet. Were methods used to eliminate hazards effective? If not, list why. If unsure how to proceed, contact your supervisor. Entrant/Date Attendant/Date (if applicable) Supervisor/Date (if applicable)

**Commented [BCM12]:** Add this. This is a new form for reclassifying permit confined spaces.



# CITY OF APPLETON APPENDIX D - ALTERNATE ENTRY PROCEDURES OF CONFINED SPACES

Revised: 09-01-2021

Location of Space:		Date:		Time:	
Description of confine	d space (tank #,	etc.):			
Description of work to	be performed in	space:			
<u> </u>	Alternate Entry I	Procedures of C	onfined Spaces -	<u>Guidance</u>	
Alternate entry proceduractual or potential hazar hydrogen sulfide, etc.) a atmospheric levels shownew hazard is discovere can be re-evaluated. Ar be eliminated before the guarded by a railing, ten oppening and will protect required into the space to cannot be used; instead	rd within the configured this hazard cauld at any time exited, all employees my conditions make cover is remove apporary cover, or employees work to obtain the initia	ned space is atm in be controlled the ceed the allowab must leave the s king it unsafe to red d. When entrand other temporary ing in the space fall or pre-entry rea	nospheric (e.g., oxyo hrough continuous it le limit, if the ventila pace immediately a emove an entrance ce covers are remov barrier that will previrom foreign objects adings or to eliminat	gen-deficient, forced air ver ation system s and prohibit er cover (to a c ved, the open vent an accid- entering the	high levels of htilation. If stops working or if a htry until the space onfined space) must ing shall be promptly ental fall through the space. If entry is
		02	H2S	LEL	со
Permissible Limits for Entry:		<u>19.5% - 23.5%</u>	Less than 10 ppm	Under 10%	Less than 35 ppm
Initial Readings (Pre-Entry):					
INIMUM). IF ENTRY SI EASUREMENTS ARE N NTRY SUPERVISOR'S S O <sub>2</sub>	NEEDED, LIST T SIGNATURE:	HIS SPECIFIC T	IME FREQUENCY	HERE:	·
O2	LEL	co	H <sub>2</sub> S	Т	IME
O2	LEL	co	H <sub>2</sub> S	Т	IME
O <sub>2</sub>	LEL	CO	H <sub>2</sub> S	Т	IME
O <sub>2</sub>	LEL	CO	H <sub>2</sub> S	T	IME
O2	LEL	CO	H <sub>2</sub> S	Т	IME
O <sub>2</sub>	LEL	CO	H <sub>2</sub> S	Т	IME
Entrant/Date		Attendant/Date (if applicable)		Supervisor/Date (if applicable)	
Entrant/Date (if applicable	)				
		Page 24	of 24		

**Commented [BCM13]:** Add this. This is a new form for documenting the alternate entry process of permit confined spaces.