

Great Western Painting

Confined Space/Permit-Required Confined Space

29 CFR 1910.1046, Permit-Required Confined Spaces

29 CFR 1910.1000, Air Contaminants

Table Z-1, Limits for Air Contaminants

Table Z-2, No Title

Table Z-3, Mineral Dusts

OVERVIEW

As a contractor, we are subject to 29 CFR 1926 standards. According to 29 CFR 1926.21(b)(6)(i), Safety Training and Education, all employees required to enter into confined or enclosed spaces shall be instructed as to the nature of the hazards involved, the necessary precautions to be taken, and in the use of protective and emergency equipment required. We are to comply with any specific regulations applying to this potentially dangerous situation. 29 CFR 1910.146, Permit-Required Confined Spaces, applies to confined space entry.

CONFINED SPACES

Confined spaces are dangerous because of their configuration, their actual or potential atmosphere, and other hazards that may present themselves such as engulfment.

This Program is designed to:

- a. identify and evaluate permit space hazards before entry.
- b. provide a system of testing conditions before entry and monitoring conditions during entry.
- c. provide a system of preventing unauthorized entry.
- d. provide a method of eliminating or controlling hazards for safe permit-space entry operations.
- e. provide a method of ensuring at least one (1) Attendant is stationed outside the permit space for the duration of the entry operations.
- f. provide a method of coordinating and monitoring entry operations when employees of more than one employer are to be working in the permit space.
- g. provide appropriate procedures for emergency rescue.
- h. establish a written procedure for preparation, issuance, use, and cancellation of entry permits.
- i. provide a system for review and revision of our Program.
- j. provide a complete understanding of OSHA Standard 29 CFR 1910.146 for all workers affected by the provisions.

After all is said and done, the bottom line is this:

- a. A confined space is a space that:
 - is large enough and so configured that an employee can bodily enter and perform assigned work; and
 - has limited or restricted means for entry or exit. On the job site, these spaces may include: ventilation or exhaust ducts, bins and tanks, boilers, sewers, tunnels and open top spaces more than 4 feet in depth such as pits, tubs, and vessels; and
 - is not designed for continuous employee occupancy.
- b. A Permit-Required Confined Space is:
 - a confined space that contains any recognized serious safety or health hazards.

DEFINITIONS

The Permit-Required Confined Space standard contains terms which must be understood by all those involved with entry to confined space, permit-required or not. These terms should be known to avoid miscommunication:

ACCEPTABLE ENTRY CONDITIONS: the conditions that must exist in a permit space to allow entry and to ensure that employees involved with a permit-required confined space entry can enter safely into and work within the space.

ATTENDANT: an individual stationed outside one or more permit spaces who monitors the Authorized Entrants and who performs all Attendant's duties identified and assigned in our permit-required confined space program.

AUTHORIZED ENTRANT: denotes an employee who is authorized to enter a permit space.

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

DOUBLE BLOCK AND BLEED: the closure of a line, duct, or pipe by closing and locking or tagging two in-line valves, and by opening and locking or tagging a drain or vent valve in the line between the two closed valves.

EMERGENCY: any occurrence (including any failure of hazard control or monitoring equipment) or event internal or external to the permit space that could endanger entrants.

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

ENTRY: the action by which a person passes through an opening into a 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.

ENTRY PERMIT (*PERMIT*): the document that is prepared to allow and control entry into a permit space and that contains the below listed information:

- a. the permit space to be entered.
- b. the purpose of the entry.
- c. the date and authorized duration of the entry permit.
- d. the authorized entrants listed in a manner that will allow the attendant to determine, for the duration of the permit, quickly and accurately which entrants are inside the confined space.
- e. the names of personnel currently serving as attendants.
- f. the name of the individual serving as entry supervisor, with a space for the signature or initials of the entry supervisor who originally authorized entry.
- g. the hazards of the permit space to be entered.
- h. the measures used to isolate the permit space and to eliminate or control permit space hazards before entry, i.e., lockout or tagging of equipment, as well as procedures for purging, inerting, ventilating, and flushing permit spaces.
- i. the acceptable conditions.
- j. The results of initial and periodic tests accompanied by the names or initials of the testers and by an indication of when the tests were performed. Permit space conditions will be evaluated as follows:
 1. testing of conditions in the permit space to determine if acceptable entry conditions exist before entry is authorized to begin. If isolation of the space is not feasible because the space is large or is part of a continuous system (such as a sewer), pre-entry testing shall be performed to the extent feasible before entry is authorized. If entry is authorized, entry conditions shall be continuously monitored in the areas where Authorized Entrants are working.
 2. testing and/or monitoring the permit space as necessary to determine if acceptable entry conditions are being maintained during the course of entry operations.
 3. testing for atmospheric conditions will be conducted in this order: 1) oxygen; 2) combustible gases and vapors; and 3) toxic gases and vapors.

ENTRY SUPERVISOR: the person 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 (i.e., escape unaided from a permit space), injury, or acute illness from one or more of the following causes:

- a. flammable gas, vapor, or mist in excess of 10% of its lower flammable limit.
- b. airborne combustible dust at a concentration that meets or exceeds its lower flammable limit.
- c. atmosphere oxygen concentration below 19.5% or above 23.5%.
- d. atmospheric concentration of any substance for which a dose or permissible exposure limit is published in Subpart G, *Occupational Health and Environmental Control*, or Subpart Z, *Toxic and Hazardous Substances*, (29 CFR 1910), and which could result in employee exposure in excess of its dose or permissible exposure limit.
- e. any other atmospheric condition that is immediately dangerous to life or health.

HOT WORK PERMIT: the written authorization to perform operations capable of providing a source of ignition, i.e., riveting, welding, cutting, burning, and heating.

IMMEDIATELY DANGEROUS TO LIFE OR HEALTH (IDLH): any condition that poses an immediate or delayed threat to life, causes irreversible adverse health effects, or interferes with an individual's ability to escape unaided from a permit space.

INERTING: The displacement of the atmosphere in a permit space by a noncombustible gas (such as nitrogen) to such an extent that the resulting atmosphere is noncombustible.

Note: This procedure produces an IDLH oxygen-deficient atmosphere.

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; misaligning or removing sections of line, pipes, or ducts; a double block and bleed system; lockout or tagout of all sources of energy; or blocking or disconnecting all mechanical linkages.

LFL: lower flammable limit.

LINE BREAKING: the intentional opening of a pipe, line, or duct that is or has been carrying flammable, corrosive, or toxic material, an inert gas, or any fluid at a volume, pressure, or temperature capable of causing injury.

NON-PERMIT CONFINED SPACE: a confined space that does not contain or, with respect to atmospheric hazards, have the potential to contain any hazard capable of causing death or serious physical harm.

OXYGEN DEFICIENT ATMOSPHERE: an atmosphere containing less than 19.5 percent oxygen by volume.

OXYGEN ENRICHED ATMOSPHERE: an atmosphere containing more than 23.5 percent oxygen by volume.

PEL: Permissible Exposure Limit.

PERMIT-REQUIRED CONFINED SPACE: a confined space that has one or more of the following characteristics:

- a. contains or has a potential to contain a hazardous atmosphere.
- b. contains a material that has the potential for engulfing an entrant.
- c. 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.
- d. contains any other recognized serious safety or health hazard.

PERMIT SYSTEM: our written procedure for preparing and issuing permits for entry and for returning the permit space to service following termination of entry.

PROHIBITED CONDITION: any conditions in a permit space that is not allowed by the permit during the period when entry is authorized.

RESCUE SERVICE: the personnel designated to rescue employees from permit spaces.

RETRIEVAL SYSTEM: the equipment (including a retrieval line, chest or full body harness, wristlets if appropriate, and a lifting device or anchor) used for non-entry rescue of persons from permit spaces.

STRATIFIED ATMOSPHERE: layered atmosphere.

TESTING: the process by which the hazards confronting entrants of a permit space are identified and evaluated. Testing includes specifying the tests to be performed in the permit space.

JOB SITE EVALUATION

The Entry Supervisor will evaluate the job site to determine if any spaces are permit-required spaces. Should a permit-required confined space(s) be identified, all exposed employees will be informed of the location and danger by posting a sign that reads:

**DANGER--PERMIT-REQUIRED CONFINED SPACE
DO NOT ENTER**

Personnel are not allowed in the Permit-Required Confined Space except under the provisions of this Program. The above sign shall remain in place unless the space is reevaluated and re-designated a non-permit confined space. Reevaluations of confined spaces will be made if changes have occurred or employees or their representative request a reevaluation.

By the same token, non-permit confined space(s) shall be reevaluated as configurations, uses, and changes in hazards are identified, and, if necessary, re-classified as a permit-required confined space.

This program will be used for all Permit-Space Entry by our employees.

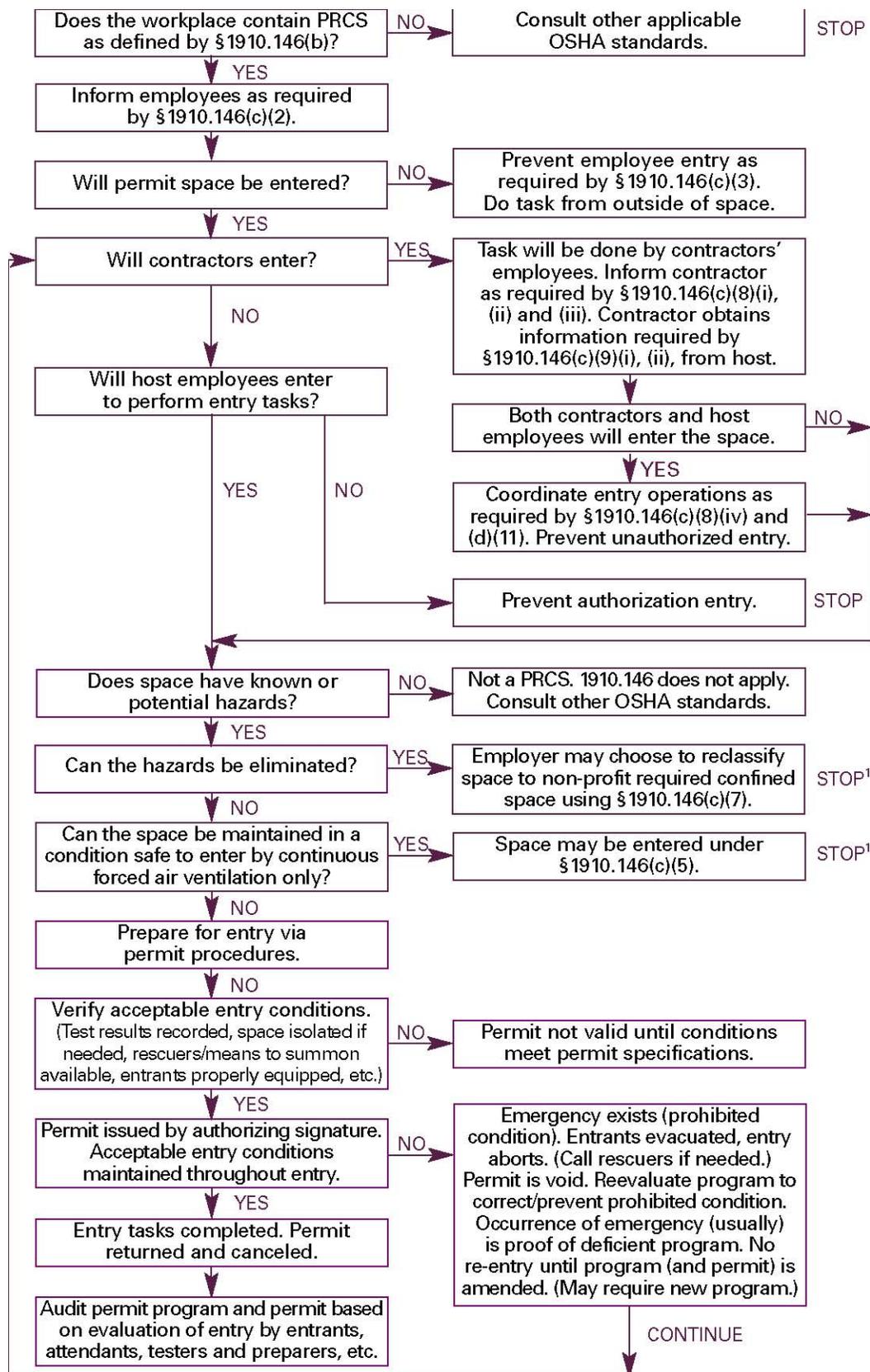
Procedures for Coordinating Entry Operations for Multi-Employers:

The procedures for coordinating entry operations for multi employers so that employees of one employer do not endanger the employees of another employer are as follows:

1. All employees of every employer who are not involved with the confined space entry will be kept clear of the confined space by signage and the Entry Supervisor.
2. An Entry Supervisor and Attendant will be designated, in writing, as the Senior Entry Supervisor and Senior Attendant have authority all entrants regardless of company for whom they work.
3. All persons involved with the confined space entry will be involved in preparing a Job Task Analysis with emphasis on reasons the space is designated a [permit-required] confined space; the specific tasks each employee will be performing in the confined space; special precautions to be taken to protect employees of one employer from hazards created by employees of another; specific hazards and experiences with the confined space; and a review of rescue procedures.
4. Actual entry will be made following our entry procedures found in **pages 9 through 12 of this program.**

A decision flow chart will be used to identify permit-required confined spaces and proper procedures to be followed.

The below is from Appendix A to 29 CFR 1910.146:



As a general policy, no employee shall enter any confined space, permit-required or not, unless entry is dictated by work assignment. Entry of permit-required confined spaces will be made under the provisions of this Program.

STANDARD PROCEDURES FOR PERMIT-REQUIRED CONFINED SPACE ENTRY

MEASURES TO PREVENT UNAUTHORIZED ENTRY

Unauthorized entry will be prevented by:

- a. posting of the below sign:

**DANGER--PERMIT-REQUIRED CONFINED SPACE
DO NOT ENTER**

- b. posting of Attendants outside the permit-required confined space to ensure that unauthorized personnel are not allowed in.
- c. ensuring that the Entry Supervisor is aware of his authority, under 29 CFR 1910.146(j)(5), to remove unauthorized individuals who enter or attempt to enter the permit space during entry operations.
- d. ensuring the Authorized Entrants are aware of the provisions of 29 CFR 1910.146(h)(5)(iii) which requires an immediate evacuation in the event of the detection of a prohibited condition. An unauthorized entrant is a prohibited condition.

A roster system which allows the Attendant to keep track of the Authorized Entrants within the permit space will be used. The times in and out are recorded. This system accomplishes two major safety goals and one time management goal:

- a. identifies who is actually in the permit-required space.
- b. records the time of exposure to the hazardous condition(s).
- c. documents the time required for accomplishing the assigned task.

ATMOSPHERIC TESTING

Note: Entrants, or their representatives, will have the opportunity to observe the pre-entry atmospheric testing as well as any periodic testing that may be deemed necessary for employee safety. Employees or their representative may request additional air monitoring at any time.

Atmospheric testing is required for two (2) distinct purposes: evaluation of the hazards of the permit space and verification that acceptable conditions exist for entry into that space.

- a. **Evaluation testing.** The atmosphere of a confined space should be analyzed using equipment of sufficient sensitivity and specificity to identify and evaluate any hazardous atmospheres existing or arising so that appropriate permit entry procedures can be developed and acceptable entry conditions stipulated for that space. Evaluation and interpretation of these data and development of the entry procedure should be reviewed by a technically qualified professional (e.g., OSHA consultation service, certified industrial hygienist, registered safety engineer, or certified safety professional) based on evaluation of all serious hazards.

- b. Verification testing.** The atmosphere of a permit space which may contain a hazardous atmosphere should be tested for residues of all contaminants identified by evaluation testing using permit specified equipment to determine that residual concentration at the time of testing and entry are within the range of acceptable entry conditions. Testing order should be oxygen, flammables, then toxics. Results of testing (i.e., actual concentration) should be recorded on the permit in the space provided adjacent to the stipulated acceptable entry condition.

Duration of testing. Measurement of values for each atmospheric parameter should be made for at least the minimum response time of the test instrument specified by the manufacturer.

Testing stratified (layered) atmospheres. When monitoring for entries involving a descent into atmospheres which may be stratified, the atmospheric envelope should be tested at a distance of approximately four (4) feet in the direction of travel and to each side. If a sampling probe is used, the entrant's rate of progress should be slowed to accommodate the sampling speed and detector response.

Periodic re-testing will verify the atmosphere remains within acceptable entry conditions.

PROCEDURES AND PRACTICES FOR PERMIT SPACE ENTRY

The confined space will be evaluated to determine if, in fact, it is a Permit-Required Confined Space. The decision process will be aided by using the Permit-Required Confined Space Decision Flow Chart. The Entry Supervisor will make this determination.

Questions to be answered in the decision making process include:

- a. Does the atmosphere have an oxygen content of between 19.5% and 23.5% by volume?
- b. Does the atmosphere contain or have a potential to contain a hazardous atmosphere?
- c. Does the confined space contain a material with a potential for engulfing the entrant?
- d. Does the confined space have an internal configuration capable of entrapping or asphyxiating the entrant?
- e. Does the confined space contain any other recognized hazards?

Once it has been determined that the procedures for Permit-Required Confined Space operations will be implemented, the following actions will be taken:

- a. the space will be secured and isolated to prevent non-authorized entry. Barriers, or some other protection as dictated by

- circumstance, will be erected or installed to protect entrants from external hazards such as pedestrians, vehicles, falling objects, etc..
- b. the Pre-Entry Check List will be prepared.
 - c. a check will be made of the records of all personnel involved with the operations to insure they have had appropriate training for the hazards involved. Material Safety Data Sheets will be made available.
 - d. before entry, a comprehensive rescue plan will be written and a check of the rescue team's qualifications will be made.
 - e. all feasible engineering controls will be implemented. The atmosphere will be purged, ventilated, inerted, and/or flushed to control or eliminate the hazardous atmosphere.
 - f. before entry, all personnel involved will review the Pre-Entry Check List and have a completed understanding of what the operations are to accomplish, the safety measures available, and the rescue plan.
 - g. all available data will be sought from our client concerning the space including its history, its hazards, their experience with the space and, if applicable, problems encountered. At the completion of the project, all information pertinent to the confined space operation will be provided to the client. Coordination of work and the assignment of one (1) Senior Attendant will be made.

Throughout the duration of an authorized entry into a permit confined space, conditions will be continually verified for acceptability.

After all measures listed above: training; testing; identification of hazards; evaluation; specifying acceptable entry conditions; controlling the atmospheric hazards and other identified hazards through engineering controls, such as forced air ventilation, isolation, and control of hazardous energy (lockout/tagout); preparing a rescue plan; barricading; equipping the appropriate employees with personal protective gear and notifying them of all hazards involved with the entry, etc., the Entry Permit will be issued and signed by the Entry Supervisor.

The duration of the Entry Permit may not exceed the time required to complete the assigned task identified on the permit and will be terminated:

- a. when the assigned task is completed.
- b. when a condition that is not allowed under the entry permit arises in or near the permit space.

During Permit-Required Confined Space entry, employees will be provided, at no cost, the following:

- a. testing and monitoring equipment to test conditions in the permit

space to determine if acceptable entry conditions exist before entry is authorized to begin and, if acceptable conditions exist, to continually monitor conditions during the entry process to ensure that acceptable conditions are maintained.

- b. ventilating equipment, if required, to maintain acceptable atmospheric conditions.
- c. communications equipment, or a method of communicating, between the entrant(s) and the Attendant.
- d. personal protective equipment should feasible engineering controls not adequately protect the entrants.
- e. adequate lighting to provide safe working conditions and enhance the ability of entrants to safely and quickly evacuate the permit-required confined space in an emergency.
- f. required equipment, such as ladders, for safe entry and exit for the Authorized Entrants.
- g. rescue equipment, such as wristlets, life lines, and harnesses to extricate entrants in the event of an emergency. The Emergency Rescue Plan will be implemented so that rescue personnel are either on call or on station with adequate medical resources.

RESCUE AND EMERGENCY SERVICES PLAN

Note: Depending on the circumstances, i.e., host facility requirements; hazards; resources, etc., rescue services will be provided by one (1) or more of the following:

1. The host facility.
2. An outside rescue service which is given an opportunity to examine the entry site, practice rescue and decline as appropriate.
3. By ourselves by selecting a rescue team that is equipped and trained to perform the needed rescue service.

One of the most important elements of any Permit-Required Confined Space Program is the Rescue and Emergency Services Plan. **There shall be, as a matter of policy, at least one Attendant for each applicable confined space. Reference 29 CFR 1910.146(d)(7): In no circumstance will we have a single attendant monitoring more than one (1) confined space.** Regardless of the emergency, if only one Attendant is on duty, he shall not enter a Permit-Required Confined Space to attempt a rescue until replaced by a second Attendant as required by 29 CFR 1910.146 (i)(4)..

Should an employee be assigned to be a member of a Rescue Team, that employee must have had documented training in:

- a. proper use of personal protective equipment and rescue equipment.

- b. the same training as required of the entrant.
- c. a simulated rescue within at least twelve (12) months in the same type of confined space (i.e., representative space of the same general dimensions, opening size, hazard type, and accessibility.)

At least one member of the Rescue Team must be trained and certified in basic first aid and cardiopulmonary resuscitation (CPR) and that documentation will be on file. This person must also have training in bloodborne pathogens and exposure control.

The attendant will ensure that only authorized rescue personnel identified on the entry permit be allowed to attempt a rescue.

The Attendant will notify the rescue service **before** permit-required confined space entry is made to coordinate a possible rescue before the fact. The rescue service will be informed of the exact location of the project, the hazards involved, the number of entrants, the types of protective equipment worn by the entrants, etc. If needed, a practice rescue will be accomplished. If a rescue effort is required, the attendant will call the rescue service immediately by phone. **If the entry involves a possible IDLH situation, the rescue service will be on-site while work is being performed.**

Non-entry rescue will be used by retrieval systems, where possible, in lieu of actual entry unless the retrieval system would contribute to the overall risk of the entrant.

Retrieval systems to be considered include:

- a. a chest or full body harness with a retrieval line attached at the center of the entrant's back near shoulder level.
- b. wristlets if they create a lesser danger to the entrant than the above.
- c. a retrieval line attached to a mechanical lifting (pulling) device fixed to an anchorage outside the permit space.

Should a potential rescue be required to retrieve an entrant from a five (5) foot vertical drop, a mechanical retrieval device will be employed.

The Attendant will have on site the MSDS for all chemical substances to which the entrant will be exposed. The emergency responders as well as the treating hospital will be provided this information.

The rescue procedure to be used will be noted on the Entry Permit before entry.

**CONFINED SPACE ENTRY USING FORCED AIR VENTILATION
FOR CONTROL OF HAZARDOUS ATMOSPHERE**
(NO OTHER HAZARDS ARE IDENTIFIED)

IF it can be demonstrated that the only hazard posed by the permit space is an actual or potential hazardous atmosphere; and

IF it can be demonstrated that continuous forced air ventilation alone is sufficient to maintain that permit space safe for entry; and

IF monitoring and inspection data supports the above; and

IF the initial entry of the permit space is necessary to obtain the above data, it is carried out by the complete Permit-Required Confined Space Program; and

IF the determinations and supporting data for the above are documented and made available to each employee who enter the permit space; then

ENTRY may be made provided:

THAT any conditions making it unsafe to remove an entrance cover have been eliminated before the cover is removed; and

THAT when the entrance covers are removed, the openings shall be promptly guarded by a railing, temporary cover, or other temporary barrier preventing an accidental fall through the opening, and protecting each employee working in the space from foreign objects entering the space; and

THAT before entering the space, the internal atmosphere shall be tested, with a calibrated direct-reading instrument, for the following conditions in the order given:

- a. Oxygen content.
- b. Flammable gasses and vapors.
- c. Potential toxic air contaminants; and

THAT there be no hazardous atmosphere within the space whenever any employee is inside the space; and

THAT continuous forced air ventilation shall be used, as follows:

- a. no employee may enter the space until the forced air ventilation has eliminated any hazardous atmosphere; and
- b. the forced air ventilation will be so directed as to ventilate the immediate areas where an employee is or will be present within the space and shall continue until all employees have left the space; and
- c. the air supply for the forced air ventilation shall be from a clean source and may not increase the hazards in the space; and

THAT the atmosphere within the space shall be periodically tested as necessary to ensure that the continuous forced air ventilation is preventing the accumulation of a hazardous atmosphere; and

THAT if a hazardous atmosphere is detected during entry:

- a. each employee shall leave the space immediately; and
- b. the space will be evaluated to determine how the hazardous atmosphere developed; and
- c. measures will be implemented to protect employees from the hazardous atmosphere before any subsequent entry takes place; and

THAT all the above is verified with a written certification that contains the date, location of the space, and the signature of the person providing the certification before entry and made available to each employee entering the space.

THEN, per 29 CFR 1910.146(c)(5)(i) & (c)(5)(ii), we may use an alternate procedure for Confined Space Entry which does not require compliance with the following provisions of 29 CFR 1910.146:

- a. Permit-Required Confined Space Program.
- b. Permit System.
- c. Entry Permit.
- d. Duties of Authorized Entrants.
- e. Duties of Attendants.
- f. Duties of Entry Supervisors.
- g. Rescue and Emergency Services.

In spite of the above, this type of confined space is still a Permit-Required Confined Space. We are only talking about authorized entry here. Remember, when the forced air ventilation has been removed, the hazardous atmosphere will return.

At first glance, this may seem like a way to avoid much of the paperwork and compliance requirements. To a small degree, it is. However, the confined space which falls under these provisions of the OSHA standard do require documented evaluation, training of employees, barricading of the area, a plan for emergency contingencies, and record keeping. Adherence to all applicable safety standards and practices must be maintained.

This is an alternate set of procedures which may or may not be used. If they are used, all employees should be aware that their safety is first and foremost and that provisions of 29 CFR 1910 (5)(c)(i) & (5)(c)(ii) will be adhered to. Specifically, what we are dealing with is a space with only one

hazardous condition (atmosphere) before any action (i.e., forced air ventilation) is taken. Before entry is made the hazardous atmosphere is made acceptable through continuous forced air ventilation and the safety of the atmosphere is periodically checked to ensure that the atmosphere remains safe whenever an employee is within the space in question.

TRAINING

Training will be given to all employees whose work is regulated by this plan. Training will be conducted prior to initial assignment, prior to a change in assigned duties, and, if a new hazard has been created or special deviations have occurred, training will be given to address these changes and or deviations. Training will ensure that these persons have the knowledge and skills necessary for the safe accomplishment of their assigned jobs with a confined space. Training will include the duties and responsibilities of each Permit-Required Confined Space position: Authorized Entrant, Attendant, Entry Supervisor, and Rescue Team Member.

Training will be documented and certified with the trainee's name and signature; the trainer's name and signature; and the date of the training. This certification will be available for inspection by the employees and their authorized representatives.

Training will be accomplished before any assignment involving permit-required confined space operations and when there is a change in assigned duties. Further training will be given at the introduction of a new hazard for which the employee has not been trained.

Should actual job experience indicate a lack of knowledge or proficiency, training will be re-accomplished.

Training for the various Permit-Required Confined Space job positions will allow them to perform their assigned duties.

DUTIES OF AUTHORIZED ENTRANTS:

Authorized Entrants will:

- a. be aware of the hazards that may be encountered during entry, including: information on the mode, signs or symptoms, and consequences of the exposure.
- b. use proper use of monitoring equipment, ventilation equipment, communications equipment, personal protective equipment, lighting equipment, rescue equipment, entry and egress equipment, barriers to protect entrants from external hazards, and other equipment necessary for safe entry into and rescue from permit spaces.
- c. have the skills necessary to communicate with the Attendant should a reason for evacuation be present.

- d. will understand the requirement to alert the Attendant whenever:
 - 1. the entrant notices a warning sign or symptom of exposure to a dangerous situation. An example of this may be a tingling of the skin, dizziness, or a headache. Consult the Material Safety Data Sheets for information on specific chemical hazards.
 - 2. a prohibited condition is detected.
- e. ensure exit procedures are followed which include the need to exit the permit space as quickly as possible whenever:
 - 1. an order to evacuate is given by the attendant or the Entry Supervisor.
 - 2. the entrant recognizes any warning sign or symptom of exposure to a dangerous situation.
 - 3. a prohibited condition is recognized.
 - 4. an evacuation alarm is activated.

DUTIES OF ATTENDANTS:

Attendants will:

- a. be aware of the hazards that may be encountered during entry, including the mode, signs or symptoms, and consequences of the exposure.
- b. be aware of possible behavioral effects of hazard exposure in Authorized Entrants.
- c. continuously maintain an accurate count of Authorized Entrants in the permit space and will use and maintain a roster on the entry permit to readily identify who is in the permit space.
- d. follow the requirement that, while an external rescue attempt may be attempted (such as the use of an external retrieval system), they may not attempt to enter a permit-required confined space to attempt a rescue under any circumstances unless:
 - 1. they are relieved by a second Attendant.
 - 2. they are thoroughly trained and certified in appropriate rescue techniques as required by the Rescue and Emergency Services Plan of this Program.
- e. communicate procedures, as necessary, with Authorized Entrants to monitor entrant status and alert entrants of the need to evacuate if one of the following conditions presents itself:
 - 1. a prohibited condition is detected by the Attendant.

2. the Attendant detects the behavioral effects of hazard exposure in an Authorized Entrant.
 3. the Attendant detects a situation outside the space that could endanger the Authorized Entrants.
 4. the Attendant realizes that he/she cannot perform all the required duties of this Plan.
- f. summon rescue and other emergency services as soon as the Attendant determines that Authorized Entrants need assistance to escape from permit space hazards.
 - g. take the following steps when unauthorized persons approach or enter a permit space while entry is underway:
 1. warn the unauthorized persons that they must stay away from the permit space.
 2. advise the unauthorized persons they must exit immediately if they have entered the permit space.
 3. inform the Authorized Entrants and the Entry Supervisor if unauthorized persons have entered the permit space.
 - h. utilize the procedures for safe non-entry rescues as specified by our rescue procedure.
 - i. be aware that no duties may be performed which might interfere with the Attendant's primary duty to monitor and protect the Authorized Entrants. The Attendant must remain outside the Permit Space during entry operations until relieved by another Attendant.

DUTIES OF ENTRY SUPERVISOR:

The Entry Supervisor will:

- a. be aware of the hazards that may be encountered during entry including information of the mode, signs, symptoms, and consequences of the hazard exposure.
- b. verification procedures, especially checking that the appropriate entries have been made on the permit, that all tests specified by the permit have been conducted, and that all procedures and equipment specified by the permit are in place before endorsing the permit and allowing entry to begin.
- c. terminate procedures when:
 1. the entry operations covered by the entry permit have been completed [at this point the permit will be canceled], or
 2. a condition arises in or near the permit space that is not allowed.

- d. verify that rescue services are available and that means for summoning them are operational.
- e. ensure unauthorized personnel who enter or attempt to enter the permit space are removed.
- f. maintain entry operations consistent with the terms of the entry permit. Whenever responsibility for a permit space entry operation is transferred, and at intervals dictated by the hazards and operations performed within the space, the entry operations must remain consistent with the terms of the entry permit and acceptable entry conditions must be maintained.

RESCUE AND EMERGENCY SERVICES:

Rescue and Emergency Services (Teams and/or Personnel) will be trained and knowledgeable in all areas applicable to Authorized Entries as well as:

- a. the use of personal protective equipment and rescue equipment.
- b. rescue duties consistent with the permit space involved and the identified hazards or potential hazards.
- c. first aid -- at least one (1) member of a rescue team will be certified in basic first aid and CPR.

Assigned rescue personnel must complete permit space simulated rescues at least once every twelve (12) months from representative permit spaces similar to the permit space in question with regard to size, configuration, hazards involved, accessibility, and opening size.

REVIEW OF PROGRAM

Canceled entry permits will be retained for at least one (1) year to facilitate the review of the permit-required confined space program. Any problems encountered during an entry operation will be noted on the appropriate permit so this program may be revised to correct deficiencies before subsequent entries are authorized.

This Permit-Required Confined Space Program will be reviewed and altered, if appropriate, at the following times:

- a. when there is reason to believe the measures taken under this program may not protect employees such as: unauthorized entry; detection of a permit space hazard not covered by the permit; occurrence of an injury or near injury; change in the use or configuration of a permit space; or employee complaints about the effectiveness of this Program.

- b. within one year of each entry to ensure employees participating in entry operations are protected from permit space hazards.

Note: A single review may be conducted covering all entries during a twelve (12) month period.

Note: If no entry has been performed during a 12 month period, no review is necessary..

RE-DESIGNATION OF CONFINED SPACES

Confined spaces will be reevaluated and re-designated as appropriate. If all hazards, both atmospheric and non-atmospheric, are eliminated from a confined space, it shall be re-classified as a Non-Permit Confined Space. This will be accomplished provided that actual and potential hazards are eliminated.

By the same token, should a space that is classified a Non-Permit Confined Space be found to have a hazard, it shall be reclassified as a Permit-Required Confined Space.

Should a Non-Permit Confined Space, by virtue of altered configuration, use, addition, or identification of hazards become a Permit-Required Confined Space, its designation will change accordingly.

A confined space is one of the following:

- a. a non-permit confined space not falling under the Confined Space standards.
- b. a confined space whose one and only hazard is atmospheric and can be controlled by forced air ventilation. The Pre-Entry Check List provides this information.
- c. a permit-required confined space; all hazards must be identified. The Pre-Entry Check List and Entry Permit provide this information.

Controlling and eliminating hazards are two distinct concepts. Controlling an atmosphere to make it acceptable (i.e., forced air ventilation) does not eliminate the hazard. Stop the forced air ventilation, and the hazard returns.

SUMMARY

All employees who, by virtue of their work assignments, fall under the provisions of this standard should have a comprehensive understanding of confined spaces and the potential dangers involved when working in them. Certain items can not be overemphasized; safety is so important. Most accidents are sudden and unexpected. It is much wiser to plan ahead for possible courses of action in response to potential danger than wait until an accident happens and find, for example, there is no external retrieval system or method of summoning qualified medical response.

Some of the provisions of this program may, on first review, seem unnecessary and/or harsh. One item is the requirement forbidding the Attendant trained in rescue, CPR and First Aid and having the proper safety equipment on site to enter a Permit-Required Confined Space to rescue a fellow worker until he/she is replaced by another Attendant. Another item is the requirement to evacuate the Permit-Required Confined Space immediately at the first sign of a problem.

An explanation of these two items might help to clarify the importance of the whole program.

In the first case, the worker has succumbed to a hazard in a Permit-Required Confined Space. The following information is assumed: the Authorized Entrant entered the space in question after the Pre-Entry Check List and Permit were issued; he/she is aware of the dangers and trained and qualified for entry; he/she has all the required personal protective gear and it is properly worn and functioning. The worker is down! The Attendant would, at the time of the emergency, have no additional information. Therefore whatever hazard fell the first worker would certainly fall the Attendant if the Attendant were to enter the space. No one would know there are now two people to rescue. Even if they did, by the time the Emergency Response Team arrived, they would now be dealing with two people instead of one. The time lost could be critical to the survival of the Authorized Entrant and to the unwitting Attendant who, while trying to save his friend, actually put his life at greater risk.

Let's analyze the second case concerning immediate evacuation. Suppose you are in a smoke-free environment such as an office, a house, or room and someone lights a cigarette. Even a smoker can detect the odor in a few moments. This gives an indication of how fast the gases in an atmosphere mix even at room temperature (it would be faster at higher temperatures). Immediate evacuation means just that -- immediate. If an Authorized Entrant has just a few seconds to complete a work assignment in a permit-required confined space and is told by the Attendant to evacuate; a warning sign or symptom of exposure is noticed; a prohibited condition is observed; or an evacuation alarm is activated, the entrant must stop work at once and evacuate. Time is of the essence -- hazardous atmospheres may spread quickly. Other hazards (such as engulfment) can happen instantly with little or no warning. It is much easier to re-assess a situation and re-group from outside the permit-required confined space.

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PERMIT-SPACE INFORMATION & ATTENDANT DESIGNATION

CONFINED SPACE

DATE: _____

SPACE IDENTIFICATION: _____

SPACE LOCATION: _____

CLIENT: _____

1. Reasons the above confined space is designated a Permit-Required Confined Space:

2. Special precautions taken to protect personnel in or around the above space:

3. Specific hazards and experience with the above confined space:

CLIENT UNDERSTANDING

I, _____, have been provided the above
(Client Representative)
information and understand that permit space entry is allowed only through compliance with a Permit Space Program meeting the requirements of 29 CFR 1910.146.

In the event our employees and your company employees are working near or in the same Permit-Required Confined Space, the below listed person is designated as the one and only Senior Attendant. The person, listed below, will have authority over other Attendants.

(Designated Senior Attendant)

(Client Representative Signature/Title)

(Date)

Patrick Evje
Safety Director

(Date)

[A copy of this form will be kept at the job site during all operations.]

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ENTRY ROSTER

CONFINED SPACE

DATE: _____

SPACE IDENTIFICATION

SPACE LOCATION:

AUTHORIZED ENTRANT	TIME IN	TIME OUT	TIME IN	TIME OUT	TIME IN	TIME OUT	TIME IN	TIME OUT
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____

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PERMIT-REQUIRED CONFINED SPACE

ENTRY PERMIT

Note: This Entry Permit must be used with the attached **Pre-Entry Checklist**.
Additional pages may be added as necessary.

PERMIT VALID FOR _____ HOURS

CONFINED SPACE-HAZARDOUS AREA: _____

CONFINED SPACE IDENTIFICATION: _____ START DATE: _____

SPACE LOCATION: _____ TIME: _____

PURPOSE OF ENTRY: _____

SUPERVISOR(S) in charge of crew: _____

AUTHORIZED ATTENDANTS: _____

ATMOSPHERE (GAS) TESTER'S SIGNATURE & INITIALS: _____

ATMOSPHERE TESTING EQUIPMENT USED:

(Type) (Model and/or Serial Number) (Calibration date)

(Type) (Model and/or Serial Number) (Calibration date)

(Type) (Model and/or Serial Number) (Calibration date)

(Signature of Entry Supervisor/Date)

(Signature of Program Administrator/Date)

REVIEWED BY: (Confined Space Operations Personnel)

NOTE: The below listed persons, or their representative, have had the opportunity to observe the pre-entry atmospheric testing as well as any periodic testing that may be deemed necessary for employee safety.

(Print Name) (Signature) (Print Name) (Signature)

PRE-ENTRY CHECKLIST

This checklist is an integral part of our Permit System and **MUST** be maintained with the Entry Permit.

All items on this Pre-Entry Checklist must be completed before entry.

For items that do not apply, enter N/A.

INITIAL ATMOSPHERIC CHECK (BEFORE VENTILATION): TIME: _____

	<u>Acceptable Parameters</u>	<u>Tester's Initials</u>
Oxygen: _____ % _____ %	> 19.5 % < 23.5 %	_____
Flammable gases and vapors:		
_____ : _____ % LEL	< 10.0 %	_____
(NAME)		
_____ : _____ % LEL	< 10.0 %	_____
(NAME)		
_____ : _____ % LEL	< 10.0 %	_____
(NAME)		

		<u>Tester's Initials</u>
Potential toxic air contaminants:		
_____ : _____ PPM	< _____ PPM	_____
(NAME)		
_____ : _____ PPM	< _____ PPM	_____
(NAME)		
_____ : _____ PPM	< _____ PPM	_____
(NAME)		

[NOTE: mg/m³ may be substituted for PPM. See Table Z-1 to Z-3, Subpart Z 29 CFR 1910. Further, reference Subpart G, 29 CFR 1910.]

METHOD OF ISOLATION (Atmospheric Conditions): _____

MEANS OF VENTILATION (To control Atmospheric Conditions): _____

ATMOSPHERIC CHECK (AFTER VENTILATION & ISOLATION AND IMMEDIATELY PRIOR TO INITIAL ENTRY): TIME: _____

	<u>Acceptable Parameters</u>	<u>Tester's Initials</u>
Oxygen: _____ % _____ %	> 19.5 % < 23.5 %	_____
Flammable gases and vapors:		
_____ : _____ % LEL	< 10.0 %	_____
(NAME)		
_____ : _____ % LEL	< 10.0 %	_____
(NAME)		
_____ : _____ % LEL	< 10.0 %	_____
(NAME)		
Potential toxic air contaminants:		
_____ : _____ PPM	< _____ PPM	_____
(NAME)		
_____ : _____ PPM	< _____ PPM	_____
(NAME)		
_____ : _____ PPM	< _____ PPM	_____
(NAME)		

[NOTE: mg/m³ may be substituted for PPM. See Table Z-1 to Z-3, Subpart Z 29 CFR 1910. Further, reference Subpart G, 29 CFR 1910.]

OTHER HAZARDS:

(Type, i.e., configuration, engulfment, unacceptable atmosphere, any recognized serious safety or health hazard)

(Engineering controls to control or eliminate the hazard to the extent feasible.)

(Type, i.e., configuration, engulfment, unacceptable atmosphere, any recognized serious safety or health hazard)

(Engineering controls to control or eliminate the hazard to the extent feasible.)

(Type, i.e., configuration, engulfment, unacceptable atmosphere, any recognized serious safety or health hazard)

(Engineering controls to control or eliminate the hazard to the extent feasible.)

(Type, i.e., configuration, engulfment, unacceptable atmosphere, any recognized serious safety or health hazard)

(Engineering controls to control or eliminate the hazard to the extent feasible.)

(Type, i.e., configuration, engulfment, unacceptable atmosphere, any recognized serious safety or health hazard)

(Engineering controls to control or eliminate the hazard to the extent feasible.)

HAZARDS NOT COMPLETELY ELIMINATED BY ENGINEERING CONTROLS AND SAFETY GEAR REQUIRED (i.e., respirators (specific type), special boots, gloves, suits, eye protection, etc.):

(HAZARD)

(SAFETY GEAR)

(HAZARD)

(SAFETY GEAR)

(HAZARD)

(SAFETY GEAR)

COMMUNICATIONS PROCEDURES:

[NOTE: Acceptable, non-electrical, suggestions include, but are not limited to, predetermined rapping sounds, tugs on a rope or line, air horn signals, voice communications]

BELOW LISTED ITEMS MUST BE COMPLETED AND REVIEWED PRIOR TO ENTRY:

NOTE: For items that do not apply, enter N/A.

<u>REQUIREMENT COMPLETED</u>	<u>DATE</u>	<u>TIME</u>	<u>REQUIREMENT COMPLETED</u>	<u>DATE</u>	<u>TIME</u>
Lock Out/De-energize/Try Out	_____	_____	Full Body Harness w/"D" ring	_____	_____
Lines Broken/Capped/blanked	_____	_____	Emergency Escape Retrieval	_____	_____
Purge-Flush & Vent	_____	_____	Equipment		
Ventilation	_____	_____	Lifelines	_____	_____
Secure Area (Post & Flag)	_____	_____	Fire Extinguishers	_____	_____
Breathing Apparatus	_____	_____	Lighting (Explosion Proof)	_____	_____
Resuscitator-Inhalator	_____	_____	Protective Clothing	_____	_____
Standby Safety Personnel	_____	_____	Respirator(s) (Air Purifying)	_____	_____
Hoisting Equipment	_____	_____	Direct reading gas monitor	_____	_____
All electric equipment listed	_____	_____	tested		
Class I, Division I, Group D			Non-Sparking Tools	_____	_____
SCBA's for entry & standby	_____	_____	Powered Communications	_____	_____
Other: _____	_____	_____	Burning & Welding Permit	_____	_____
Other: _____	_____	_____	Other: _____	_____	_____

EMERGENCY AND RESCUE PROCEDURES

	YES	NO	N/A
Rescue Procedures will be implemented by Company Employees.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Company Rescue Personnel have had training in:			
a. Use of Personal Protective Equipment.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b. Use of Rescue Equipment.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c. Practiced simulated permit space rescue within the past 12 months for a space representative of the space for which this permit is issued.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Each member of the Rescue Team has had training in basic First Aid and cardiopulmonary resuscitation (CPR) and at least one (1) member is currently certified.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Rescue Team Members:

NAME OF CERTIFIED PERSON (CPR): _____

NAME OF CERTIFIED PERSON (1st AID): _____

Appropriate Material Safety Data Sheets are at the job site.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
The retrieval line is affixed to the entrants and a fixed point outside the space or a mechanical device should the space be a vertical type more than five (5) feet deep.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
All entrants will wear a chest or full body harness with a retrieval line attached at the center of the entrant's back neat shoulder level, or above the entrant's head.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Entrants will wear wristlets, in lieu of the above, should they create a lesser danger to the entrants.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

RECORD OF CONTINUOUS MONITORING

[The results of continuous monitoring, if applicable, are to be recorded below every two (2) hours.]

TESTS TO BE TAKEN	Permissible Entry Level	TIME/ RESULTS	TIME/ RESULTS	TIME/ RESULTS	TIME/ RESULTS	TESTER'S INITIALS	DATE
PERCENT OF OXYGEN	19.5 to 23.5%	/	/	/	/		
LOWER EXPLOSIVE LIMIT	Under 10%	/	/	/	/		
_____	* _____ ** _____	/	/	/	/		
_____	* _____ ** _____	/	/	/	/		
_____	* _____ ** _____	/	/	/	/		
_____	* _____ ** _____	/	/	/	/		
_____	* _____ ** _____	/	/	/	/		

*8 Hour Time Weighted Average: Employee can work in area 8 hours (longer with appropriate protection).

**Short term exposure limit: Employee can work in area up to 15 minutes.

TESTS TO BE TAKEN	Permissible Entry Level	TIME/ RESULTS	TIME/ RESULTS	TIME/ RESULTS	TIME/ RESULTS	TESTER'S INITIALS	DATE
PERCENT OF OXYGEN	19.5 to 23.5%	/	/	/	/		
LOWER EXPLOSIVE LIMIT	Under 10%	/	/	/	/		
_____	* _____ ** _____	/	/	/	/		
_____	* _____ ** _____	/	/	/	/		
_____	* _____ ** _____	/	/	/	/		
_____	* _____ ** _____	/	/	/	/		
_____	* _____ ** _____	/	/	/	/		

*8 Hour Time Weighted Average: Employee can work in area 8 hours (longer with appropriate protection).

**Short term exposure limit: Employee can work in area up to 15 minutes.

This six (6) page Entry Permit and Pre-Entry Checklist as been prepared by the Entry Supervisor and reviewed by all personnel involved in this Permit-Required Confined Space Entry Operation.

ENTRY SUPERVISOR: _____
 (Name) (Signature) (Date)

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PRE-ENTRY CHECK LIST and CERTIFICATION OF COMPLIANCE WITH 29 CFR 1910.146(c)(5)(ii) for CONFINED SPACE ENTRY USING FORCED AIR VENTILATION FOR CONTROL OF HAZARDOUS ATMOSPHERE (NO OTHER HAZARDS ARE IDENTIFIED)

PART 1

I certify that the below listed confined space falls under the Permit-Required Confined Space Standard, 29 CFR 1910.146(c)(5)(i) & entry will be performed under the provisions of 29 CFR 1910.146(c)(5)(ii).

CONFINED SPACE IDENTIFICATION: _____ DATE: _____

SPACE LOCATION: _____ TIME: _____

WORK TO BE ACCOMPLISHED IN CONFINED SPACE: _____

PRE ENTRY CHECKLIST

INITIAL ATMOSPHERIC CHECK (BEFORE VENTILATION): TIME: _____

Acceptable Parameters

Oxygen: _____ % _____ % > 19.5 % < 23.5 %

Flammable gases and vapors:

_____ : _____ % LEL < 10.0 %
(NAME)

_____ : _____ % LEL < 10.0 %
(NAME)

_____ : _____ % LEL < 10.0 %
(NAME)

Potential toxic air contaminants:

_____ : _____ PPM < _____ PPM
(NAME)

_____ : _____ PPM < _____ PPM
(NAME)

_____ : _____ PPM < _____ PPM
(NAME)

NOTE: mg/m³ may be substituted for PPM. See Table Z-1 to Z-3, Subpart Z 29 CFR 1910. Reference Subpart G, 29 CFR 1910.

METHOD OF ISOLATION: _____

MEANS OF VENTILATION: _____

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PRE-ENTRY CHECK LIST

For

CONFINED SPACE ENTRY USING FORCED AIR VENTILATION FOR CONTROL OF HAZARDOUS ATMOSPHERE (NO OTHER HAZARDS ARE IDENTIFIED)

PART 2

I certify that the below listed confined space falls under the Permit-Required Confined Space Standard, 29 CFR 1910.146(c)(5)(i) & (c)(5)(ii):

CONFINED SPACE PRE-ENTRY CHECK LIST

A confined space either is entered through an opening other than a door (such as a manhole or side port) or requires the use of a ladder or rungs to reach the working level. Test results must be satisfactory. This check list must be filled out whenever the job site meets this criteria.

- | | YES | NO |
|--|--------------------------|--------------------------|
| 1. Did your survey of the surrounding area show it to be free of hazards such as drifting vapors from any source? | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. Does your knowledge of industrial or other discharges indicate this area is likely to remain free of dangerous air contaminants while occupied? | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. Are you certified in the operation of the gas monitor to be used? | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. Has a gas monitor functional test (Bump Test) been performed this shift on the gas monitor to be used? | <input type="checkbox"/> | <input type="checkbox"/> |
| 5. Did you test the atmosphere of the confined space prior to entry? | <input type="checkbox"/> | <input type="checkbox"/> |
| 6. Did the atmosphere check as acceptable (no alarms given)? | <input type="checkbox"/> | <input type="checkbox"/> |
| 7. Will the atmosphere be continuously monitored while the space is occupied? | <input type="checkbox"/> | <input type="checkbox"/> |

NOTE: If any of the above questions are answered "NO", DO NOT ENTER. Contact your immediate supervisor.

JOB LOCATION: _____ DATE: _____

COMPETENT PERSON NAME: _____ SHIFT: _____

COMPETENT PERSON SIGNATURE/DATE: _____

EMERGENCY PHONE NUMBERS:

LOCAL FIRE DEPARTMENT (RESCUE): _____

LOCAL FIRE DEPARTMENT (FIRE): _____

ON-SITE EMERGENCY PHONE NUMBER: _____

POLICE: _____