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March 13, 2024

REQUEST FOR BID ADDENDUM #2 – BIDDER QUESTIONS AND ANSWERS

REQUEST FOR BID #12970

DESCRIPTION: “MEDIUM VOLTAGE CABLE INSTALLATION AND SPLICING AT B. 100”

The following questions have been submitted by the approved Bidders for the above-referenced opportunity. The Department’s (LAHD) answers are in red.

1. Will the conduits have pull strings in them? **The conduit from the main sub-station existing gear to the manhole (vault), originally had strings installed in them. However, that string may no longer be in place. There is no string from the Manhole (vault) to the new stand-up gear at the main sub-station.**
2. Have the conduits been mandreled? **The conduit from the main sub-station existing gear to the manhole (vault) was mandreled and inspected during the original construction when they were first installed. There is one 90 and two 45-degree bends in this run. The conduit from the manhole (vault) to the new stand-up gear at the main sub-station has not been mandreled. There are two 48’ radius 90’s and two 22-degree offsets contained on this run.**
3. Who is responsible for removing water from the high voltage manhole? **The water and any sludge at the bottom of the manhole will need to be removed as part of the wire installation and needs to be included in the quoted price.**
4. Are there pictures and elevation drawings of the high voltage manhole? **No, there are no pictures or elevations of this manhole.**
5. Will existing circuits in the high voltage electrical manhole be identified? **No, there are not any as-builts to identify the circuits that are existing in this manhole. They may be identified in the manhole itself on the wire bundles.**
6. Will all this work be done during regular operating hours? **No, work will need to be performed on swing shift or a graveyard shift—exact hours to be determined. We will coordinate with the terminal operations in the area and schedule the work to have the smallest impact on their operations. We will also take into consideration the ability to safely access infrastructure in scheduling this work.**
7. Are there special requirements if the existing circuits in the high voltage manhole are energized? **This work will need to be done while the existing conductors are energized. The contractor will be required to exercise their policies and procedures in compliance with Title 8 Cal OSHA Low and High Voltage Electrical Safety Orders.**
8. What is the confined space entry policy for electrical manholes? **LAHD’s Confined Space Policy (attached) must be followed. The Contractor is required to comply with this policy and Title 8 Cal OSHA Low and High Voltage Electrical Safety Orders.**

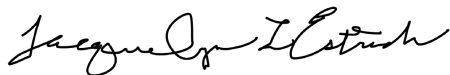
9. Is a stand-by rescue team required for confined space entry? LAHD does not have a "stand-by rescue team." The Los Angeles Fire Department is the rescue team. Contractor shall provide their rescue plan, to be approved by LAHD.
10. Are there any requirements for contractor vehicles on the job site? Clearly labeled vehicles with beacons and high visibility markings are preferred. Please Adhere to the terminal operator's policy in regards to vehicles, access, and escorting.
11. What is the size of the cable reel, material of the cable reel (wood/metal), and number of cable reels being supplied by the Harbor Department? There are four wooden spools total, three of which contain 600 feet of 5KV wire and one with 600 feet of the 4/0 Ground. They are wooden and approx. four feet in diameter.
12. Are there any specific PPE requirements for this terminal? Hardhat, Safety vests or high visibility clothing with 2-inch-wide minimum reflective marking, safety toe boots, safety glasses, hearing protection, and for this project additional PPE required by Cal OSHA for the appropriate task.

Please address any questions regarding this bid to:

Jacquelyn Estrada
Contracts and Purchasing Division
jestrada@portla.org

All other requirements remain unchanged.

Very respectfully,



JACQUELYN L. ESTRADA
Procurement Analyst



CONFINED SPACE ENTRY PROGRAM

The Port of Los Angeles

Revised April 2021

CONFINED SPACE ENTRY PROGRAM

The Port of Los Angeles

TABLE OF CONTENTS

Introduction	3
Purpose	3
Responsibilities	4
Permit-Required Confined Space Program Elements	6
Alternate Entry Procedures	11
Reclassification to a Non-Permit Confined Space	12
Hot Work	13

APPENDICES

Appendix 1: Definitions	14
Appendix 2: Confined Space Entry Procedures.	19
Appendix 3: Confined Space Entry Permit/Certification	23
Appendix 4: Basic Confined Space Entry and Rescue Equipment	26
Appendix 5: Procedures for Atmospheric Testing and Monitoring	28
Appendix 6: Contractor Pre-Entry Information Form	30
Appendix 7: Contractor Debriefing Form.	32
Appendix 8: Confined Space Inventory List	34

1.0 INTRODUCTION

The Port of Los Angeles (Port) will implement a Confined Space Entry Program to comply with the California Occupational Safety and Health Administration (Cal-OSHA) confined space entry standard.

The benefits of the Confined Space Entry Program include:

- A. Protect employees from hazards associated with confined spaces.
- B. Improve the Department's safety program.
- C. Improve safety communication with employees.
- D. Minimize the risk of citations, violations, and penalties from regulatory agencies.

A copy of this written Confined Space Entry Program is available, upon request, to employees, their designated representatives, directors, or designees of Cal-OSHA. A copy of this written Confined Space Entry Program is also available on the Port of Los Angeles' intranet website (iPOLA)

http://ipola/finadmin/RM/Documents/Confined_Space_Entry_Program_4-21_Final.pdf

Employees and contractors of the Port shall not enter a confined space until the following requirements are met:

- A. Hazards are identified and evaluated; and
- B. Workers entering the space are trained on confined space hazards and entry procedures; and
- C. Workers entering the space are identified and made aware of the possible hazards that may be encountered on that particular job; and
- D. Appropriate danger signs have been posted; and
- E. Appropriate protective barriers are in place; and
- F. Proper personal protective equipment has been selected and issued to affected employees.

If a confined space is not entered because one of the conditions mentioned above has not been met, the confined space will be restricted to employees and others by erecting barriers, installing locks, and/or posting warning signs until requirements have been met.

2.0 PURPOSE

The purpose of this program is to ensure the protection of employees from the hazards associated with confined space entry throughout the Port. This program also contains requirements for practices/procedures to protect employees from hazards of entry (see Appendix 2).

It shall be the policy of each affected division to reduce the need for confined space entry. It shall also be the policy of the division to eliminate, whenever possible, all confined space hazards in order to reclassify permit-required confined spaces to non-permit required confined spaces. If/when permit-required confined space entry is necessary, all applicable provisions of this program are to be followed.

3.0 RESPONSIBILITIES

3.1 Risk Management

The Risk Management Division will oversee the administration of this Confined Space Entry Program. Risk Management will carry out the following tasks:

- A. Develop the written Confined Space Entry Program.
- B. Annually review/revise the Confined Space Entry Program as needed
- C. Provide confined space entry training to divisions/employees that fall within the scope of the program.
- D. Provide suggestions and recommendations in the selection and use of appropriate air monitoring, personal protective equipment and/or rescue equipment to meet the requirements of this program.
- E. Periodically audit work operations documentation and canceled permits to evaluate the overall effectiveness of the Confined Space Entry Program, and to ensure that employees participating in entry operations are protected from permit space hazards.
- F. Assist supervisors in identifying/assessing confined spaces encountered by employees.

3.2 Division Manager

Division Managers will oversee the implementation of this Confined Space Entry Program by carrying out the following tasks:

- A. Implement the measures necessary to prevent unauthorized entry;
- B. Identify and evaluate the hazards of permit spaces before employees enter them;
- C. Develop and implement the means, procedures, and practices necessary for safe permit space entry operations, including, but not limited to, the following:
 - 1. Specifying acceptable entry conditions;
 - 2. Isolating the permit space;
 - 3. Purging, inerting, flushing, or ventilating the permit space as necessary to eliminate or control atmospheric hazards; and
 - 4. Verifying that conditions in the permit space are acceptable for entry throughout the duration of an authorized entry.
- D. Provide training so that all employees whose work is regulated by this program acquire the understanding, knowledge and skills necessary for the safe performance of their assigned duties;
- E. Provide the following equipment at no cost to employees, maintain that equipment properly, and ensure that employees use that equipment properly:
 - 1. Testing and monitoring equipment;
 - 2. Ventilating equipment needed to obtain acceptable entry conditions;
 - 3. Communications equipment;
 - 4. Personal protective equipment insofar as feasible engineering and work practice controls do not adequately protect employees;
 - 5. Lighting equipment needed to enable employees to see well enough to work safely and to exit the space quickly in an emergency;
 - 6. Provide pedestrian, vehicle, or other barriers as necessary to protect entrants from external hazards;
 - 7. Equipment, such as ladders, needed for safe ingress and egress by authorized entrants;

- 8. Rescue and emergency equipment or procedures for summoning additional rescue and emergency services; and
- 9. Any other equipment necessary for safe entry into and rescue from permit spaces;
- F. Ensure confined space entry is performed by only trained and authorized personnel;
- G. Ensure employees comply with the conditions and recordkeeping requirements of this program.

3.3 Entry Supervisor (Lead Worker)

Supervisors shall identify and report all job areas and locations that are or may be confined spaces (see Appendix 8: Confined Space Inventory List). A list of all confined spaces shall be submitted to the Risk Management Division's Risk Manager (JMartinez@portla.org) or Safety Engineer CToy@portla.org. In addition to this, designated entry supervisors shall carry out the following tasks:

- A. Classify confined spaces as "Permit Required," "Alternate Procedure" or "Non-permit Required."
- B. Identify personnel who will enter confined spaces.
- C. Ensure the attendant(s) and entrant(s) have received necessary training and understand confined space hazards and procedures.
- D. Ensure all safety equipment, personal protective equipment, and job tools necessary to safely complete the assigned work in the confined space are present and in good working condition.
- E. Advise personnel what acceptable confined space respirable conditions are.
- F. Provide instruction to personnel on the proper use of equipment required for confined space entry.
- G. Conduct site inspections to review compliance with confined space entry procedures.
- H. Maintain records of equipment maintenance/calibration.
- I. Minimize the number of employees permitted to enter confined spaces, and list every involved employee on the Confined Space Entry Permit/Certification.
- J. Issue and/or cancel entry permits.
- K. Identify/evaluate the hazards of permit spaces before employees enter them; include said information on the Confined Space Entry Permit/Certification form. (see Appendix 3)
- L. Conduct a pre-entry briefing to inform entrants of possible hazards that may be encountered.
- M. Take the necessary measures to prevent nonessential or unauthorized entrance into prohibited permit spaces.
- N. Ensure the presence of an effective communication method between entrants/attendants and the division's method to summon emergency response rescue personnel as identified on line 6 of the Confined Space Permit/Certification form. (see Appendix 3)
- O. Determine that entry and work operations remain consistent with entry permit terms and verify that acceptable entry conditions are maintained.

Note: The entry supervisor may also serve as the entrant or attendant for the entry.

3.4 Attendants

The attendant of each permit-required confined space will carry out the following tasks:

- A. Know the entry hazards.
- B. Conduct air monitoring and hazard assessment as specified on the entry permit by the entry

supervisor.

- C. Prohibit entry whenever monitoring indicates that oxygen, flammability, or toxic levels are not within acceptable limits or until appropriate control measures are implemented.
- D. Remain outside the permit space.
- E. Communicate with entrants.
- F. Monitor entry activities.
- G. Summon rescue and emergency services if needed.
- H. Prevent unauthorized entry.
- I. Perform non-entry rescue efforts.
- J. Not perform duties that conflict with entry space supervision.

3.5 Authorized Entrants (Employees Who Enter Confined Spaces)

Employees who enter confined spaces shall comply with the confined space entry procedures contained herein, and shall carry out the following tasks:

- A. Store, clean, maintain, and protect equipment used for confined space entry from damage.
- B. Report any deficiencies or malfunction of equipment to his/her supervisor and/or attendant.
- C. Understand emergency procedures in case an accident occurs in a confined space.
- D. Know the hazards they may encounter during entry.
- E. Recognize the signs and symptoms of hazard exposure.
- F. Understand the consequences of hazardous exposure.
- G. Use equipment properly.
- H. Communicate with the attendant.
- I. Alert the attendant of any hazards.
- J. Exit the permit space quickly when required.

4.0 PERMIT REQUIRED CONFINED SPACE PROGRAM ELEMENTS

A permit-required confined space is a confined space that has one of more of the following characteristics:

- A. Contains, or has the potential to contain, a hazardous atmosphere,
- B. Contains a material that has the potential for engulfing an entrant,
- C. Consists of an internal configuration such that an entrant could be trapped or asphyxiated (i.e., inwardly converging walls, a floor which slopes downward and tapers to a smaller cross-section, etc.)
- D. Contains any other serious safety or health hazard.

The entry supervisor assesses the space to determine if the entry is, at that current time, a "Permit Required", "Alternate Procedure", or "Non-Permit" entry. The entry supervisor then completes all applicable items on the Confined Space Entry Permit/Certification (see Appendix 3). When "Permit Required" confined spaces are identified, managers/supervisors will also be responsible for implementing the following procedures:

4.1 Preventing Unauthorized Entry

In order to prevent unauthorized entry into "Permit Required" confined spaces, divisions must utilize at least two of the following mechanisms:

- A. Provide information to visitors.

- B. Post warning signs.
- C. Erect barriers.
- D. Install locks or covers at entry points.

Each division will ensure the implementation of these mechanisms and ensure they remain in place.

4.2 Identifying Permit Space Hazards

Each division will identify and evaluate the hazards of permit spaces before employees enter them. The following hazards shall be identified and documented on the Confined Space Entry Permit/Certification prior to entry into a confined space:

- A. Atmospheric hazards and/or asphyxiating atmospheres.
- B. Flammable atmospheres and/or toxic atmospheres.
- C. Burn and/or fire hazards.
- D. Heat stress hazards.
- E. Mechanical hazards.
- F. Engulfment hazards.
- G. Physical hazards (i.e., falls, debris, slipping hazards).
- H. Danger of Electrocution
- I. Danger of unexpected movement of machinery.
- J. Noise hazards.

4.3 Implementing Safe Entry Practices

Divisions must implement the listed procedures/practices in this program for safe permit space entry operations. These include, but are not limited to:

- A. Ensuring acceptable entry conditions.
- B. Isolating the permit space.
- C. Purging, inerting, flushing, and/or ventilating the permit space as necessary to eliminate, or control, atmospheric hazards.
- D. Conducting a pre-entry briefing with all affected staff.

4.4 Controlling Hazards

Hazards shall be controlled by the following mechanisms:

- A. Lockout/tagout all energy sources.
- B. Cleaning, purging, and inerting.
- C. Personal protective equipment.
- D. Ventilating the immediate work area to obtain a safe atmosphere.

4.5 Entering Confined Spaces Along Roadways

The following precautions shall be followed when entering a confined space located along a roadway, parking lot, or any area where traffic flow may cause a potential hazard:

- A. Approach the area cautiously and activate warning lights upon approach to the confined space area to be entered.

- B. Park vehicles in such a way that traffic will flow in the most unobstructed manner, and whenever possible, such that the vehicle provides protection for the entry crew.
- C. Park the vehicle in such a manner that exhaust gases are not drawn down into the manhole/confined space.
- D. Before uncovering a manhole, place traffic safety cones around the manhole and vehicle, visible to traffic in all directions. The cones should be placed at sufficient distances and intervals to adequately warn oncoming traffic.
- E. In areas of high traffic volume, or other sites warranting additional highly visible safety equipment, use illuminating traffic arrows, barricades, and "Men Working" signs.
- F. When placement of the vehicle creates a situation of having only one open lane of traffic in a congested area, use a flag person to direct traffic flow. When a flag person is necessary, an additional crew member is required to attend to the employee in the manhole or other similarly confined space. Wear high visibility traffic safety apparel, or equivalent, at all times when working on the street or easement surface in the field.
- G. In the case of openings or obstructions in the street or sidewalks being worked on, or left unattended, effectively display danger signals such as warning signs, cones, and flags. Under these same conditions at night, prominently display warning lights. Enclose excavations and openings with suitable barricades.

4.6 Equipment Use and Maintenance

Equipment, including testing, ventilating, lighting, monitoring, communication, and/or personal protective equipment necessary for the safe entry into a permit space shall be provided, maintained, and properly used by each division (see Appendix 4: Basic Confined Space Entry and Rescue Equipment).

4.7 Testing For Acceptable Entry Conditions

Permit space evaluation will include testing and/or monitoring before an entry, as well as during work activities, to ensure that acceptable entry conditions are maintained throughout the entry. Atmospheric testing should be conducted in accordance with this program (see Appendix 5).

4.8 Providing Permit Space Entry Team

There are three specific members of a confined space entry team:

- Entry Supervisor or "Lead Worker"
- Attendant(s)
- Authorized Entrant(s)

Each division will provide at least one attendant outside a permit space to be entered for the duration of the entry operations. Refer to sections 3.3-3.5.

4.9 Training

Division supervisors shall ensure training has been provided so that all employees whose work is regulated by this program acquire the understanding, knowledge, and skills necessary for the

safe performance of duties assigned to them.

Training shall be provided to each affected employee:

- A. Before employees are first assigned duties.
- B. Before there is a change in assigned duties.
- C. Whenever there is a change in permit space operations that presents a hazard that an employee has not previously been trained on.
- D. Whenever the division has reason to believe there is a need for deviations from the permit space entry procedures and/or there are inadequacies in the employee's knowledge/use of these procedures.

Only trained attendants, authorized entrants, and personnel authorizing or in charge of entry shall work in and around a permit space. The training shall establish employee proficiency in their respective duties and shall establish new or revised procedures, as necessary, for compliance with applicable regulations.

Division supervisors shall ensure the required training has been completed. If training is needed, supervisors must contact Risk Management to request training. Training certification must contain each employee's name, the signatures or initials of the trainers, and the dates of training. The certification shall be available for review by employees and their authorized representatives.

4.10 Rescue and Emergency Services

In the event of any emergency situation requiring rescue from a confined space, employees shall not attempt to enter the space to perform a rescue (unless appropriately trained). The confined space attendant on duty shall immediately implement the pre-determined emergency rescue procedure as identified on line 6 of the Confined Space Permit/Certificate form.

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

- A. Each authorized entrant shall use a chest or full body harness, with a retrieval line attached at the center of the entrant's back near shoulder level, or above the entrant's head. Wristlets may be used in lieu of the chest or full body harness if the division can demonstrate that the use of a chest or full body harness is infeasible or creates a greater hazard, and that the use of wristlets is the safest/most effective alternative.
- B. The other end of the retrieval line shall be attached to a mechanical device or fixed point outside the permit space in such a manner that rescue can begin as soon as the rescuer becomes aware that rescue is necessary. A mechanical device shall be available to retrieve personnel from vertical type permit spaces more than five (5) feet deep.
- C. If an injured entrant is exposed to a substance for which a Safety Data Sheet (SDS) or other similar written information is required to be kept at the work site, that SDS or written

information shall be made available to the medical facility treating the exposed entrant.

If the division arranges to have persons other than their employees perform permit space rescue, the division shall notify the rescue service providers in advance of the hazards they may confront when called on to perform rescue services. Divisions will provide the rescue service providers with access to all permit spaces from which rescue may be necessary so that they can develop appropriate rescue plans and rescue operations as needed.

Rescue services that can be performed safely from outside the confined space (i.e., hoisting a harnessed entrant) shall be undertaken, immediately, by trained/competent confined space team members. Other entrants in the space shall immediately exit the space and only provide assistance which does not endanger either themselves, other employees, or interfere with rescue efforts.

4.11 Written Permit System

A permit system shall be utilized for entry into permit spaces. Before each entry into a confined space, the entry permit must be completed by the entry supervisor and the assigned attendant. Contents of the entry permit must be communicated to the entrants and the permit must be posted near the entrance to the space until the termination of the permit. The entry supervisor will email the completed permit to the Risk Management Division at JMartinez@portla.org and CToy@portla.org, as well as graymail copies to Risk Management Division.

Each canceled entry permit shall be retained for at least one (1) year to facilitate the review of the Confined Space Entry Program. Any problems encountered during an entry operation shall be noted on the permit so that appropriate revisions to the Confined Space Entry Program can be made by Risk Management.

4.12 Coordinating Entry Operations with Contractors

All outside contractors performing work in permit space entry areas shall be informed by the contracting division of any fire, explosion, health, or other safety hazards associated with that confined space. The entry supervisor (outside contractor, other consulting agency, or contracting division) shall document said hazards on the Contractor Pre-Entry Information Form (see Appendix 6). This information shall be based on the current study of, or past history of, the confined space and the nature of the contractor's work procedure in making such disclosure of hazards.

Each division shall inform contractors of their safety rules and emergency plans which may be applicable to the contractor's employees. Contractors and their employees must not be allowed to enter a confined space until both the provisions of this program and Cal-OSHA requirements have been met or exceeded. When either the division or contractor personnel are working in or near permit spaces, their entry operations must be coordinated to avoid endangering any personnel.

It is the responsibility of each contractor who is retained to evaluate permit space entry operations in order to obtain any available information regarding permit space hazards and entry operations. The contractor must conduct their own testing (with their own equipment) and use their own entry permits. They must also coordinate entry operations with the affected division when both will be working in or near permit spaces. The affected division must be

informed of the permit space program that the contractor and/or subcontractor will follow and of any hazards confronted or created in permit spaces, either through a debriefing or during the entry operations. The debriefing will be documented by completing the Contractor Debriefing Form (see Appendix 7).

4.13 Concluding Entry

The entry supervisor (lead worker) will determine when the entry operations have been completed. The permit space will be then closed and the permit canceled. The lead worker will write "Permit Canceled" with the date, time, and signature at the bottom of the confined space permit and emailed to Risk Management Division at JMartinez@portla.org and CToy@portla.org, as well as sent via graymail to Risk Management Division. Re-entry into the permit space will only be allowed if re-entry is treated as a new entry.

4.14 Program Review / Revision

Each division will review past entry operations and note any deficiencies before subsequent entries are authorized. Any suggested revisions will be reported to Risk Management in order to revise the written program as needed.

4.15 Annual Compliance Review

Risk Management will review this program annually in light of actual entry, work, exit experience, and/or cancelled permits to determine how the program can be improved.

5.0 ALTERNATE ENTRY PROCEDURES

Employees who enter a confined space need not comply with all of the permit space procedures set forth in this program provided that:

- A. It can be demonstrated that the only hazard posed by the permit space is an actual or potential hazardous atmosphere, and
- B. It can be demonstrated that continuous forced air ventilation alone is sufficient to maintain that permit space safe for entry, and
- C. Monitoring and inspection data are developed that support the previous conclusions.
- D. The determinations and supporting data required are documented on the Confined Space Entry Permit/Certification form (see Appendix 3) and made available to each employee who enters the space.

Note: If an initial entry of the permit space is necessary to obtain the data required, the entry must be performed according to the permit space procedures set forth in this program in Section 4.0.

The following requirements apply to entry into permit spaces that meet the conditions listed above using "Alternate Procedures":

- A. Any conditions making it unsafe to remove an entrance cover shall be eliminated before the cover is removed.
- B. When entrance covers are removed, the opening shall be promptly guarded by railing, temporary cover, or another temporary barrier that will prevent an accidental fall through the opening and protect each employee working in the space from falling objects.
- C. Before an employee enters the space, the internal atmosphere shall be tested with a calibrated direct-reading instrument and the results shall be documented on the Confined Space Entry Permit/Certification form.
- D. There may be no hazardous atmospheres within the space whenever any employee is inside the space.
- E. Continuous forced air ventilation shall be used according to the following:
 - An employee may not enter the space until the forced air ventilation has eliminated any hazardous atmosphere.
 - The forced air ventilation shall be directed so 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.
 - The air supply for the forced air ventilation shall be from a clean source and may not increase the hazards in the space.
- F. The atmosphere within the space shall be periodically tested as necessary to ensure the continuous forced air ventilation is preventing the accumulation of a hazardous atmosphere.
- G. If a hazardous atmosphere is detected during entry, each employee shall leave the space immediately, and the space shall be re-evaluated to determine how the hazardous atmosphere developed.
- H. The supervisor shall verify the space is safe for entry and that the pre-entry measures have been taken.
- I. After evaluating the "Permit Required" confined space and establishing appropriate atmospheric controls, the entry supervisor may classify the permit space as an "Alternate Entry" space by checking the appropriate box in Section 1 of the Confined Space Entry Permit/Certification, (see Appendix 3) and completing applicable parts of "Sections 2–5" and "8–11".
- J. All steps taken to reclassify the permit space to an "Alternate Entry" space must be written on the permit/certification with a copy sent to the Risk Management Division.
- K. All confined spaces shall be considered permit required until the pre-entry procedures demonstrate otherwise.

6.0 RECLASSIFICATION TO A NON-PERMIT CONFINED SPACE

If a 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.

If it is necessary to enter the permit space to eliminate hazards, such entry shall be performed in compliance with all permit space requirements. If testing and inspection during that entry demonstrate the hazards within the permit space have been eliminated, the permit space may be reclassified as a non-permit confined space for as long as the hazards remain eliminated.

Note: Control of atmospheric hazards through forced air-ventilation does not constitute elimination of the hazards.

Divisions shall document the basis for determining that all hazards in a permit space have been eliminated through a certification that contains the date, the location of the space, and the

signature of the person making the determination. This certification shall be documented on the Confined Space Entry Permit/Certification form, made available to each employee entering the space, and a copy sent to Risk Management (see Appendix 3).

If hazards arise within a permit space that has been declassified to a non-permit confined space under this section, each employee in the space shall exit the space immediately. Each affected division shall then re-evaluate the space and determine whether it must be reclassified as a "Permit Required" or "Alternate Procedure" space.

7.0 HOT WORK

Hot work includes any operation capable of providing a source of ignition. Examples of hot work include welding, cutting, brazing, soldering, hot riveting, high-speed metal grinding, and use of an open flame.

One of the dangers of hot work is the increased risk of fire and explosion because of the introduction of an ignition source into a space with a hazardous atmosphere.

Hot work operations in confined spaces require special considerations. Divisions must:

- A. Evaluate existing hazards within the space along with potential hazards created from hot work operations.
- B. Have a written hot work permit for every hot work operation (Contact Port Police at (310) 732-3500 for notification and permit information).
- C. Take special precautions such as improving ventilation, inspecting frayed wires, implementing fire-suppression measures, and using low-voltage/non-sparking tools to reduce potential hazards.

Appendix 1 - Definitions

Acceptable entry conditions means 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 safely enter into and work within the space.

Attendant means an individual stationed outside one or more permit spaces who monitors the authorized entrants and who performs all attendant's duties assigned in the employer's permit space program.

Authorized entrant means an employee who is authorized by the employer to enter a permit space.

Blanking or blinding means 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 that is capable of withstanding the maximum pressure of the pipe, line, or duct with no leakage beyond the plate.

Confined space means a space that:

- (1) Is large enough and so configured that an employee can bodily enter and perform assigned work; and
- (2) Has limited or restricted means for entry or exit (for example, tanks, vessels, silos, storage bins, hoppers, vaults, and pits are spaces that may have limited means of entry.); and
- (3) Is not designed for continuous employee occupancy.

Double block and bleed means 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 means 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 means 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 means 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) means the written or printed document that is provided by the employer to allow and control entry into a permit space and that contains the information specified in subsection (f).

Entry supervisor means the person (such as the employer, foreman, or crew chief) responsible for determining if acceptable entry conditions are present at a permit space where entry is planned, for authorizing entry and overseeing entry operations, and for terminating entry as required by this section.

NOTE: An entry supervisor also may serve as an attendant or as an authorized entrant, as long as that person is trained and equipped as required by this section for each role he or she fills. Also, the duties of entry supervisor may be passed from one individual to another during the course of an entry operation.

Hazardous atmosphere means an atmosphere that may expose employees to the risk of death, incapacitation, impairment of ability to self-rescue (that is, escape unaided from a permit space), injury, or acute illness from one or more of the following causes:

- (1) Flammable gas, vapor, or mist in excess of 10 percent of its lower flammable limit (LFL);
- (2) Airborne combustible dust at a concentration that meets or exceeds its LFL;

NOTE: This concentration may be approximated as a condition in which the dust obscures vision at a distance of 5 feet (1.52 M) or less.

- (3) Atmospheric oxygen concentration below 19.5 percent or above 23.5 percent;
- (4) Atmospheric concentration of any substance for which a dose is published in Group 14 for Radiation and Radioactivity or a permissible exposure limit is published in section 5155 for Airborne contaminants and which could result in employee exposure in excess of its dose or permissible exposure limit;

NOTE: An atmospheric concentration of any substance that is not capable of causing death, incapacitation, impairment of ability to self-rescue, injury, or acute illness due to its health effects is not covered by this provision.

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

NOTE: For air contaminants for which a dose is not published in Group 14 for Radiation and Radioactivity or a permissible exposure limit is not published in section 5155 for Airborne contaminants, other sources of information such as: Safety Data Sheets that comply with section 5194, published information, and internal documents can provide guidance in establishing acceptable atmospheric conditions.

Hot work permit means the employer's written authorization to perform operations (i.e., riveting, welding, cutting, burning, and heating) capable of providing a source of ignition.

Immediately dangerous to life or health (IDLH) means any condition that poses an immediate or 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 permit space.

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

Inerting means 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 means 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 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.

Line breaking means 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 means 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 means an atmosphere containing less than 19.5 percent oxygen by volume.

Oxygen enriched atmosphere means an atmosphere containing more than 23.5 percent oxygen by volume.

Permit-required confined space (permit space) means a confined space that has one or more of the following characteristics:

- (1) Contains or has a potential to contain a hazardous atmosphere;
- (2) Contains a material that has the potential for engulfing an entrant;
- (3) 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
- (4) Contains any other recognized serious safety or health hazard.

Permit-required confined space program (permit space program) means the employer's overall program for controlling, and, where appropriate, for protecting employees from, permit space hazards and for regulating employee entry into permit spaces.

Permit system means the employer's written procedure for preparing and issuing permits for entry and for returning the permit space to service following termination of entry.

Prohibited condition means any condition in a permit space that is not allowed by the permit during the period when entry is authorized.

Rescue service means the personnel designated to rescue employees from permit spaces.

Retrieval system means 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.

Testing means the process by which the hazards that may confront entrants of a permit space are identified and evaluated. Testing includes specifying the tests that are to be performed in the permit space. If electronic or thermal equipment is used to perform such tests, and the possibility exists of an explosive substance or a hazardous atmosphere due to flammable gases and vapors, then the testing equipment must be approved for use in such explosive or flammable conditions as required by section 2540.2.

NOTE: Testing enables employers both to devise and implement adequate control measures for the protection of authorized entrants and to determine if acceptable entry conditions are present immediately prior to, and during, entry.

Appendix 2 – Confined Space Entry Procedures

1. Determine if entry into confined space is necessary to perform work.
2. At minimum, the following confined space equipment should be on hand:
 - Ventilation equipment.
 - Barrier and warning signs.
 - Gas monitor capable of measuring concentrations of oxygen, flammable gases, hydrogen sulfide, chlorine, carbon monoxide, and any other appropriate toxic gas.
3. Eliminate any unsafe condition(s) before an access door or cover is opened.
4. Immediately guard the entry by some barrier and signs to prevent people or objects from accidentally entering the confined space.
5. Conduct hazard assessment:
 - A. Test the following real or potential atmospheric hazards. Acceptable limits are as follows (in order of testing):
 - Oxygen: 19.5% to 23.5%;
 - Flammability: less than 10% of the lower explosive limit (LEL);
 - Hydrogen sulfide: less than 10 parts per million (ppm);
 - Chlorine: less than 0.5 ppm;
 - Carbon monoxide: less than 25 ppm;
 - Toxicity (substances listed on the entry permit under “other”): less than the permissible exposure limit (PEL).
 - B. Review the space for other observable serious safety and health hazards such as:
 - Mechanical
 - Electrical
 - Burn/fire
 - Heat stress
 - Engulfment or entrapment hazards, etc.
6. If any hazardous atmosphere exists, do the following:
 - A. If possible, determine and eliminate the source of the atmospheric hazards (i.e., carbon monoxide from nearby truck or gas-powered generator).
 - B. When the atmosphere contains toxins or flammables, ventilate the space by drawing air out until the air has been changed over several times.
 - C. When oxygen deficient, ventilate by pushing air into the space until the air has been changed over several times.

- D. Verify the hazardous atmosphere has been eliminated by testing the air.
7. Determine from information gathered from the assessment which of the following entry procedures is appropriate:
- A. Non-Permit Required Confined Space-If there are neither real or potential atmospheric hazards nor any observable serious safety and health hazards, this should be certified in writing by documenting on the entry permit/certification.
 - B. Alternate Entry Procedures-If no observable serious safety/health hazards exist and atmospheric hazards are controlled with continuous ventilation; this should be certified in writing by documenting on the permit/certification (see pages 10-11 for alternate entry procedures).
 - C. Permit-Required Confined Space-If there are any observable serious safety/health hazards in addition to potential or real atmospheric hazards, all elements herein must be followed. Authorize the permit/certification with signature.
 - D. Non-Respirable Atmospheres-If hazardous atmosphere cannot be eliminated by continuous ventilation, contact Risk Management before continuing.
8. Follow pre-entry precautions listed below:
- A. Notify affected divisions of any service interruption.
 - B. Lockout/tagout all sources of energy (i.e., steam, electric, mechanical) posing a risk to workers.
 - C. Install blanks in affected pipes where valves are not secure or seated.
 - D. Clean and/or purge any chemical storage vessel.
 - E. Wear appropriate personal protective equipment.
 - F. Have lights and/or ladders available.
 - G. If coordination is needed with contractors, see contractor section 4.12 (page 9-10).
 - H. Have appropriate SDS's.
 - I. Determine how often air monitoring will be conducted.
9. Additional precautions necessary for permit-required spaces:
- A. Determine start and end times for authorized entry.
 - B. Assign roles and responsibilities as entrant(s), attendant(s), and lead worker(s).
 - C. Set up non-entry rescue equipment (tri-pod, harness, etc).
 - D. Identify rescue services.
 - E. Determine communication method between entrant/attendant.
 - F. Conduct pre-entry briefing (review hazards, procedures, and precautions).
10. Sign and post the permit/certification at the site.
11. Continually ventilate the space by pushing air so that a positive pressure changes the air over several times every hour. Direct the clean air toward the worker.

12. Test the air periodically while personnel are in the confined space to ensure the ventilation is preventing any accumulation of a hazardous atmosphere.
13. Under the following conditions, personnel must exit the confined space, re-evaluate hazards, and modify entry procedures as needed.
 - A. If any hazardous atmosphere is detected after entry.
 - B. If any health or safety hazard develops that was not anticipated.
 - C. If Attendant (on permit required confined space entry) cannot effectively perform duties.
 - D. If personnel in confined space are experiencing symptoms from heat stress or over-exposure to atmospheric hazards.
14. When work is completed, return the space to original condition. Close out the permit/certification and submit the completed paperwork to your supervisor and forward a copy to Risk Management. (Attention John Martinez and/or Calvin Toy)

Appendix 3 – Confined Space Entry Permit/Certification

CONFINED SPACE ENTRY PERMIT / CERTIFICATION

- 1. CLASSIFICATION (check one)** ☐ This is a "Permit-Required" confined space entry
☐ This is a CERTIFICATE for an "Alternate Procedure" ☐ This is a CERTIFICATE for a "Non-Permit-Required" confined space

2. GENERAL INFORMATION

Type of Space to be entered: _____ Work to be performed: _____ Space No. _____
 Location/Division: _____ Authorized duration of permit: _____ Date Issued: _____ Time: _____
 Time Permit Expires: _____

3. PERMIT SPACE HAZARDS (Indicate hazards below)

_____ Oxygen deficiency (less than 19.5%)
 _____ Oxygen enrichment (greater than 23.5%)
 _____ Flammable gases or vapors (greater than 10% LEL)
 _____ Physical hazards (slipping hazards, noise)
 _____ Mechanical hazards
 _____ Electrical hazards
 _____ Engulfment
 _____ Other: _____
 _____ Other: _____
 _____ No hazards

4. EQUIPMENT REQUIRED FOR ENTRY AND WORK

Specify as required:
Personal Protective Equipment (PPE): _____

Respiratory Protection: _____

Atmospheric Testing/Monitoring: _____

Communication: _____

Rescue Equipment: _____

Other: _____

5. PREPARATION FOR ENTRY (Check after steps have been taken)

☐ Notification of affected departments/divisions of service interruption.

☐ Isolation Methods: ☐ Purge/clean ☐ Blank/blind

☐ Inert ☐ Atmospheric test ☐ Ventilate

☐ Barriers ☐ Lockout/tagout ☐ Other: _____

☐ Personnel Awareness:

☐ Pre-entry briefing on specific hazards and control methods

☐ Notify contractors of permit and hazard control methods

☐ Other: _____

☐ Additional process required and/or attached:

☐ Hotwork ☐ Line breaking ☐ Other: _____

6. EMERGENCY SERVICE RESCUE CHECK

Name of Service _____ Phone Number _____

7. COMMUNICATION PROCEDURES (attendants and entrants)

☐ Voice ☐ Radio ☐ Intercom ☐ Rope Signals

☐ Other _____

8. AUTHORIZED ENTRANTS (List by name or attach roster):

9. AUTHORIZED ATTENDANTS (List by name):

10. TESTING RECORD

Hazard	Acceptable Conditions	Result/ Time AM/PM	Result/ Time AM/PM	Result/ Time AM/PM	Result/ Time AM/PM	Result/ Time AM/PM	Result/ Time AM/PM	Result/ Time AM/PM	Result/ Time AM/PM
Oxygen	19.5%-23.5%								
Flammability	< 10% LEL								
H ₂ S	< 10 ppm								
Cl ₂	< 0.5 ppm								
CO	< 25 ppm								
SO ₂	< 2 ppm								
Other									
Tester's Initials									

11. AUTHORIZATION BY ENTRY SUPERVISOR(S)

I certify that all required precautions have been taken and necessary equipment is provided for safe entry and work in this confined space.

Print Name _____ **Signature** _____ **Date** _____ **Time** _____

Permit Terminated (Print, Sign, Date): _____

SEND COPY TO RISK MANAGEMENT ATTN: JOHN MARTINEZ AND/OR CALVIN TOY AT MS # 260

HOW TO FILL OUT THE CONFINED SPACE ENTRY PERMIT / CERTIFICATION FORM

Entering a Permit-Required Confined Space

1. The Entry Supervisor physically inspects the space to determine potential hazards and if the entry is a "Permit-Required", "Alternate Procedure," or "Non-Permit" entry. If the confined space is permit-required, the Entry Supervisor then completes and verifies all items on the Confined Space Entry Permit/Certification.
2. At least one attendant externally monitors the permit space being entered for the duration of the entry operation.
3. Maintain retrieval equipment and use all safety equipment as specified on the permit.
4. Attendant verifies acceptable entry conditions by identifying, controlling, or eliminating any hazards by initially testing the atmosphere with an oxygen/multi-gas detector at 4-foot intervals, and a PID if organic vapors are detected or expected, and other appropriate testing equipment for other known or expected contaminants; and by complying with all entry permit conditions.
5. Attendant directs the entrant(s) to enter and exit the space, and conducts periodic monitoring of hazard controls.
6. Attendant orders immediate evacuation of the space if safety equipment fails or if the space becomes, or has the potential to become, immediately hazardous. If necessary, attendant summons emergency responders, but NEVER ENTERS the space.
7. When confined space operation is complete, entry supervisor accounts for all entrants, terminates entry by completing section 11 of the entry permit and forwards a copy to Risk Management.

Entering a Confined Space using Alternate Procedure

1. This Alternate Entry Procedure may be used if the only hazard present in the confined space (as determined by Entry Supervisor) is: a) atmospheric in nature, and b) the atmospheric hazard can be controlled by mechanical ventilation alone, and if c) the permit space atmosphere will not become immediately dangerous to life and health (IDLH) if the mechanical ventilation fails.
 2. After evaluating the "permit-required confined space," and establishing appropriate atmospheric controls, the Entry Supervisor may classify the permit space as an Alternate Entry space by checking the appropriate box in Section 1 of the Confined Space Entry Permit/Certification, and completing/verifying applicable parts of "Sections 2, 3, 4, 5, 10, and 11."
 3. The entrant (see note below) may enter the confined space without the assistance or use of an Attendant, following the procedures indicated below.
 4. When entering the Alternate Entry confined space, the entrant will:
 - a) Establish and ensure that the mechanical ventilation system is operational and providing clean, fresh air to the work location within the space during the entire entry;
 - b) Test the atmosphere of the permit space prior to entry into the space;
 - c) Use and continually operate a personal gas detector during the entire confined space operation;
 - d) Immediately evacuate the space if ventilation fails, or if the portable air sampling equipment fails or alarm mode sounds; and
 - e) Immediately evacuate the space if the entrant discovers, or becomes aware of a previously unrecognized hazard. If this occurs, immediately notify the entry supervisor (or entrant's line supervisor, if entrant is also entry supervisor). The entry supervisor re-evaluates the permit space and implements appropriate safety precautions prior to resuming the confined space operation.
- Note:** Entry Supervisor may act as Entrant during Alternate Entry Confined Space operations. No attendant is necessary for Alternate Procedure entries, unless assistance is needed to accomplish safe entry and exit by the entrants (i.e., a tripod to enter a tank, etc.).
5. All steps taken to reclassify the permit space to an Alternate Entry space must be written on the entry permit and a copy sent to Risk Management. All confined spaces shall be considered permit-required until the pre-entry procedures demonstrate otherwise.

Entering a Non-Permit Confined Space

1. If no inherent hazard is associated with the space, or if all inherent hazards have been eliminated, the space may be entered using the following guidelines.
 2. When entering the non-permit required confined space, the Entrant(s) will:
 - a) Survey the surrounding area for potential hazards and sources of drifting vapors and gases before entry;
 - b) Always test a non-permit required confined space with an oxygen/explosive gas detector before and during entry; document pre-entry tests on Section 10 of the permit/certification form;
 - c) Follow established division safety rules and use generally acceptable safe work practices when entering and working in the space;
 - d) Never use paints, thinners, chemicals, weld, or create any other atmospheric hazard while working in the space;
 - e) Never introduce any other atmospheric, mechanical, engulfing, or electrical hazard into the space.
- Note:** Introduction of a hazard (i.e., paint thinner) into a confined space requires that the full permit process be followed.
3. No attendant or arrangement for rescue service is necessary when workers enter Non-Permit Required Spaces.
 4. All steps taken to reclassify a permit-required space to a non-permit-required confined space must be written on the entry permit with Sections 1, 2, 3, 8, 10, and 11 completed with a copy sent to Risk Management.

Appendix 4 – Basic Confined Space Entry and Rescue Equipment

Equipment shall include, but not be limited to:

- A. Safety Cones
- B. Safety Vests
- C. Barricades (as required)
- D. Men Working Signs (as required)
- E. Safety Flags
- F. Manhole Hooks (or pick)
- G. Combustible Gas / Oxygen / Carbon Monoxide / Toxic Gas Detector(s)
- H. Full Body Harness
- I. Retrieval Lines
- J. Mechanical Retrieval Devices
- K. Tri-pod or Other Anchoring Points
- L. Forced Air Ventilation Blowers and Hoses
- M. Fire Extinguishers
- N. First Aid Kits
- O. Safety Ladders
- P. Self-Contained Breathing Apparatus Air Units (as required)
- Q. Hard Hats
- R. Safety Glasses
- S. Safety Shoes
- T. Rescue Telephone Number(s)

Appendix 5 – Procedures for Atmospheric Testing and Monitoring

Atmospheric testing is necessary for two purposes: evaluation of the hazards of the permit space and verification that acceptable entry conditions into the space exist.

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 that may exist or arise, so that appropriate entry procedures can be developed and acceptable entry conditions specified for that space. A minimum of three tests should be performed to identify atmospheric hazards in confined spaces. These tests must be performed in the following sequence:

- Oxygen Content
- Flammability
- Toxicity

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 specified equipment to determine that residual concentrations at the time of testing and entry are within the range of acceptable entry conditions.

C. 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.

D. Testing Stratified Atmospheres

When monitoring for entries involving a descent into atmospheres that may be stratified, the atmospheric envelope should be tested a distance of approximately 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.

E. Equipment Calibration

To ensure that the atmospheric testing equipment is functioning properly, any direct reading test device should not be used without performing the following three operations:

- Inspection
- Calibration
- Function Test

All three operations should be performed according to specific manufacturer's instructions.

Appendix 6 – Contractors Pre-Entry Information Form

CONTRACTOR PRE- ENTRY INFORMATION FORM

1. Name of Contractor:

Division that hired contractor:

Division contact person(s):

Location of confined space(s) entered:

Permit- Required Confined Space? ☐ No ☐ Yes. If yes, why? _____

Purpose of entry:

2. List hazard(s) associated with this confined space(s):

3. Past problems associated with this confined space: ☐ None

Hazard Assessment: ☐ Air Monitoring ☐ Other _____

Equipment: ☐ Identification ☐ Lockout/ Tagout ☐ Other _____

Line / Valve / Power Source: ☐ Identification ☐ Disconnecting ☐ Blanking ☐ Blocking ☐ Bleeding
☐ Isolating ☐ Purging ☐ Inerting ☐ Draining ☐ Flushing ☐ Ventilating ☐ Other _____

Openings: ☐ Barricading ☐ Guarding ☐ Flagging ☐ Other _____

Other: ☐ _____

4. Precautions & procedures that must be implemented for employee protection in/near the confined space(s):

5. Available methods to activate emergency notification system:

Division Supervisor: Provide completed form to Contractor and return graymail to Risk Management (Attention John Martinez and/or Calvin Toy).

Appendix 7 – Contractors Debriefing Form

CONTRACTOR DEBRIEFING FORM

1. GENERAL INFORMATION:

Name of Contractor: _____

Division that hired contractor: _____

Division contact person(s): _____

Location of confined space(s) entered: _____

Date Entered: _____ Time Entered: _____ Time Completed: _____

Purpose of entry: _____

2. TYPE OF ENTRY: ☐ This was a "Permit Required" confined space entry.
☐ This was an "Alternative Procedure" confined space entry.
☐ This was a "Non- Permit- Required" confined space entry.

3. LIST HAZARD(S) ASSOCIATED WITH THIS ENTRY:

4. PROBLEMS EXPERIENCED WITH ENTRY OR WITH THIS CONFINED SPACE: ☐ NONE

Hazard Assessment: ☐ Air Monitoring ☐ Other _____

Equipment: ☐ Identification ☐ Lockout/ Tagout ☐ Other _____

Line / Valve / Power Source: ☐ Identification ☐ Disconnecting ☐ Blanking ☐ Blocking ☐ Bleeding
☐ Isolating ☐ Purging ☐ Inerting ☐ Draining ☐ Flushing ☐ Ventilating ☐ Other _____

Openings: ☐ Barricading ☐ Guarding ☐ Flagging ☐ Other _____

Other: ☐ _____

5. COMMENTS:

The above information is accurate to the best of my knowledge:

Date

Contractor Supervisor Name (Printed)

Signature

Contractor: Return form to hiring division supervisor within 48-hours of entry job termination.
Division supervisor: Address any identified problems and return graymail to Risk Management (Attention John Martinez and/or Calvin Toy).

Appendix 8 – Confined Space Inventory List

Space ID	Description	Location	Confined space	Permit Required	Evaluation Completed
-	Vaults/Confined	300 Water St	yes	yes	Yes
-	Electrical vaults	APL shipping Terminal	yes	yes	Yes
68671	Elevator Shafts	245 S. Palos Verdes St	yes	no	Yes
68672	Elevator Shafts	245 S. Palos Verdes St.	yes	no	Yes
68673	Elevator Shafts	245 S. Palos Verdes St	yes	no	Yes
27301	Elevator Shafts	2500 Signal St	yes	no	yes
27302	Elevator Shafts	2500 Signal St	yes	no	yes
27303	Elevator Shafts	2500 Signal St	yes	no	yes
98119	Elevator Shafts	2500 Signal St	yes	no	yes
161094	Elevator Shafts	330 S. Centre	yes	no	yes
161095	Elevator Shafts	330 S. Centre	yes	no	yes
103731	Elevator Shafts	500 Pier A St	yes	no	yes
78862	Elevator Shafts	Berth 161	yes	no	yes
103865	Elevator Shafts	514 Pier A St	yes	no	yes
85403	Elevator Shafts	300 Water St	yes	no	yes
n/a	Elevator Shafts	245 N. Fries	yes	no	yes
n/a	Elevator Shafts	245 N. Fries	yes	no	yes
130078	Elevator Shafts	Berth 93	yes	no	yes
36935	Elevator Shafts	Berth 93	yes	no	Yes
130077	Elevator Shafts	Berth 93	yes	no	yes
36934	Elevator Shafts	Berth 93	yes	no	yes
36932	Elevator Shafts	Berth 93	yes	no	yes
36931	Elevator Shafts	Berth 93	yes	no	yes
36933	Elevator Shafts	Berth 93	yes	no	yes
122045	Elevator Shafts	Banning's Landing	yes	no	yes
130081	Elevator Shafts	Berth 93	yes	no	yes
130082	Elevator Shafts	Berth 93	yes	no	yes
130080	Elevator Shafts	Berth 93	yes	no	yes
130079	Elevator Shafts	Berth 93	yes	no	yes
130083	Elevator Shafts	Berth 93	yes	no	yes
87945	Elevator Shafts	Berth 91-92	Yes	no	yes
87946	Elevator Shafts	Berth 91-92	yes	No	yes

Space ID	Description	Location	Confined space	Permit Required	Evaluation Completed
NA	13 x 19 x 11 vault	Harbor Reflection Fountain	yes	yes *Alternate	yes
NA	Sewer lift station	Wilmington Waterfront Park, west side waterfront area; C Street/ Hawaiian	yes	yes	yes
NA	Sump pumps (2)	Wilmington Waterfront Park, west side waterfront area; C Street/ Hawaiian	yes	yes	yes
NA	24 x 120 x 11 vault	Harbor Fountain Gateway Plaza	Yes	no	yes
NA	22 x 18 x 11 vault	Harbor Small Interaction Fountain (Splash Fountain)	yes	No	yes
NA	Sewer lift station	Wilmington Waterfront Park, west side waterfront area; C Street/ Hawaiian	yes	yes	yes
NA	5 x 5 x 10 vault	Wilmington Water Park Adventure Playground	yes	yes *Alternate	yes
NA	10 x 10 x 8 vault	Wilmington Water Park (Splash Fountain)	yes	yes *Alternate	yes
NA	10 x 4 x 10 vault	Wilmington Water Park Fountain (West)	yes	yes *Alternate	yes
NA	Barge DB39 (#269-39)	Dock	yes	yes	yes
NA	Sewage Valve – Vault #1	Pier 400	yes	yes	yes
NA	Sewage Valve – Vault #2	Pier 400	yes	yes	yes

Space ID	Description	Location	Confined space	Permit Required	Evaluation Completed
NA	Sewage Valve – Vault #3	Pier 400	yes	yes	yes
NA	Sewage Valve – Vault #4	Pier 400	yes	yes	yes
NA	Sewage Air Vault #1	Pier 400	yes	yes	yes
NA	Sewage Air Vault #2	Pier 400	yes	yes	yes
NA	Sewage Air Vault #4	Pier 400	yes	yes	yes
NA	Storm Water Pump Vault	Berth 200 G and H	yes	yes	yes
NA	Barge DB 26539 – Dry Docked	Variable, where the barge Dry Docks	yes	yes	yes
NA	Barge DB 26539 – Dry Docked	Variable, where the barge Dry Docks	yes	yes	yes

*Alternate entry once hazards have been certified to be eliminated.