

SECTION 01320SAFETY AND HEALTH PLANPART 1 - GENERAL1.1 DESCRIPTION

A. Work Included:

1. The Contractor shall be solely responsible for initiating, maintaining and supervising all safety precautions and programs in connection with the work, as outlined herein and in the General and Supplementary Conditions of the General Documents. Within (10) days after the effective date of the Agreement between Owner and Contractor, submit to the Engineer a Safety and Health Plan as specified herein.
2. Contractor shall comply with all applicable Laws and Regulations related to the safety of persons or property, or for the protection of persons or property from damage, injury, or loss; and shall erect and maintain all necessary safeguards for such safety and protection.
3. Contractor shall designate a qualified and experienced safety representative at the site whose duties and responsibilities shall be the prevention of accidents and maintaining and supervising of safety precautions and programs.

B. Content of Safety and Health Plan:

1. Prepare complete safety and health plan in accordance with the requirements of CFR Title 29 Part 1926 - Safety and Health Regulations for Construction.
 - a. Provide documentation that Contractor's hazardous communication program is up to date.
 - b. Provide documentation that Contractor's safety training is up to date.
 - c. Prepare a project specific Safety and Health Plan addressing construction safety issues, as including fall protection and egress, as well as provisions for construction in hazardous environmental conditions at the wastewater treatment facility including confined space entry, electrically-classified spaces, and chemical storage and handling areas.
2. Safety provisions for confined space entry shall follow General Industry Standard CFR Title 29 Part 1910.146 and will be incorporated into the Safety and Health Plan.
 - a. Table 1 lists confined space locations which may be encountered during the execution of this contract. Spaces listed as Permit Required Confined Space may only be entered with a permit, alternate procedures (1910.146 (c) (5)) or reclassification to non-permit required confined space (1910.146 (c) (7)). The Contractor is required to perform a site evaluation to identify all hazards and potential hazards in work areas prior to control of site.
 - b. The Contractor shall be responsible for all aspects of construction site safety including development of appropriate confined space entry

procedures. The plan shall include, but not necessarily be limited to, the following:

- Definitions
 - Confined Space Evaluations
 - Equipment Selection
 - Confined Space Entry Training Documentation
 - Permit Required Confined Space Entry Requirements
 - Testing (Monitoring) and Ventilation
 - Confined Space Entry Permit Form
 - Rescue and Emergency Procedures
 - Emergency Contact Information
- c. The Contractor shall inform the Owner and Engineer's representative whenever work will be performed in a confined space and the permit space program that the Contractor will follow.
- d. The Contractor shall inform the Owner and Engineer's representative of any hazards confronted or created during entry operations, either through a briefing or during the entry operation.
- e. The Contractor will coordinate entry operations with the Owner when both Owner personnel and Contractor personnel will be working in or near permit spaces.
- f. The Owner, Engineer, their representatives, independent testing laboratories and government agencies, when inspecting the site, shall be supplied by the Contractor proper safety equipment when entry into a confined space is required.
3. Table 2 lists chemical storage and handling spaces where the Contractor may be required to carry out work tasks. Contractor shall ensure that all employees and subcontractors working in these areas have received appropriate training and are properly equipped in accordance with Contractor's Safety and Health Plan.
- C. Updating:
1. Contractor shall be responsible for updating the Safety and Health Plan as appropriate throughout the course of the construction period.

1.2 SUBMITTALS

- A. Submit 4 copies of the initial and updated Safety and Health Plan to the Engineer. The Safety and Health Plan shall be provided for information only to document to Engineer and Owner that a complete plan has been developed. Contractor shall be responsible for all aspects of construction site safety.
- B. Submit updated Safety and Health Plans as necessary during the course of the project.

1.3 ON-SITE COORDINATION MEETINGS

- A. Contractor shall review key aspects of Safety and Health Plan at Pre-construction Meeting.

- B. Contractor shall report to Engineer and Owner at each progress meeting concerning compliance with the Safety and Health Plan for the most recent construction period and new considerations and requirements for the upcoming period.
- C. Contractor shall hold weekly on-site coordination meetings with Resident Project Representative and Owner to ensure that Owner's staff is aware of key Safety and Health Plan requirements of the current phase of construction.

**TABLE 1
PORTLAND WATER DISTRICT
CONFINED SPACE LISTING**

Confined Space Location	Hazard Description
Wastewater Treatment Plant	
Chlorine Contact Tank	Non-permit space with appropriate provisions.
Existing Chlorine Building	Chemical hazards.
Existing Dechlorination	PSM
Hydrogen Peroxide Tanks	PSM

Note: This list may not include all site hazards; its intent is to aid the Contractor in determining the magnitude of effort needed to fulfill the safety and health requirements of this Contract.

**TABLE 2
PORTLAND WATER DISTRICT
CHEMICAL HAZARD LISTING**

Location	Chemical Hazard
Chlorine Building	Chlorine Gas
Dechlorination Building	Sulfur Dioxide Gas

Note: This list may not include all site hazards; its intent is to aid the Contractor in determining the magnitude of effort needed to fulfill the safety and health requirements of this Contract.

END OF SECTION