Permit Required Confined Space (PRCS) Entry Plan

0206500_CP_11_21_en_A1.4

Instructions: Complete the Permit Required Confined Space Plan below. Ensure that site specific and PRCS specific details are included.

Project Title: _____ Contract #: _____

Plan Author (print name): _____ Date (mm/dd/year): _____

PRCS Type (description): _____

Purpose of Entry

The purpose of this plan is to implement safety work practices regarding PRCS entry at (enter project title or PRCS location):

_____

This plan shall be implemented to protect the employee(s) who enter and conduct work inside the PRCS

Definitions

Acceptable Entry Conditions	*Conditions which must exist in a confined space to ensure that employees can safely enter and work within the space.*
CS Entry	*Individual stationed outside a confined space who monitors the authorized entrants and who performs attendant's duties (i.e., constant communication, emergency notification, etc.) assigned.*
CS Entry Attendant	*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.*
CS Authorized Entrant(s)	** Know space hazards, including information on the mode of exposure (e.g., inhalation or dermal absorption), signs or symptoms and consequences of the exposure;* ** Use appropriate personal protective equipment properly (e.g., face and eye protection, and other forms of barrier protection such as gloves, aprons and coveralls);* ** As necessary, maintain communication (i.e., telephone, radio, visual observation) with entrants to enable the attendant to monitor the entrants status as well as to alert the entrant to evacuate;* ** Exit from permit space as soon as possible when ordered by an authorized person, when the entrant recognizes the warning signs or symptoms of exposure exist, when a prohibited condition exists, or when an automatic alarm is activated; and* ** Alert the attendant when a prohibited condition exists or when warning signs or symptoms or exposure exist.* ** Check that equipment is in good condition.*
CS Entry Supervisor	*Department head, foreman or supervisor responsible for determining, if acceptable, entry conditions are present at a permit space where entry is planned, for authorizing entry, for overseeing entry and for terminating entry.*
Confined Space	*Confined Space spaces or enclosures large enough and configured so as to allow one to bodily enter to perform assigned work with limited or restricted means of entry or exit (i.e., storage tanks, boilers, sewers, utility tunnels, vaults, manholes, degreaser pits, trenches, etc.) and not designed for continuous occupancy.*
Confined Space Entry Permit	*Written or printed document provided by an employer to allow and control entry into a permit required confined space.*

General Requirements

Primary Hazards (check all that apply, add detail if applicable):

Yes No Potential or existing hazardous atmosphere? (if yes, explain below)

Yes No Live electrical? (if yes, explain how energy will be isolated, LOTO, etc. [submit HECP/LOTO])

Yes No Toxic environment? (if yes, explain below)

Yes No Converging wall or engulfment hazard? (if yes, explain below)

Yes No Unguarded machine parts or equipment? (if yes, explain below)

Yes No Other identified hazard(s)? (if yes, explain below)

Access & Egress:

Type of access/egress (explain below):

If access/egress is gained via hatch or manhole cover, explain how the access/egress will be guarded:

Yes No Will the CS entry attendant be exposed to a fall hazard? (if yes, explain protection):

A No Access Zone, will be delineated around the guardrails (6 feet on all sides) using candle sticks and caution tape. No employee is allowed inside this area unless signing in on the entry / exit log or without first checking in with the entry attendant. The PRCS entry attendant shall guard the entrance from any unauthorized employee(s). Signage should be placed around the confined space entry point(s) to warn any individual of the confined space hazard.

Atmospheric Monitoring:

Gases inside confined spaces tend to settle into layers; the air monitoring shall be conducted first around the point(s) of access / egress. The atmospheric monitor will then be placed on a string or pole and the air quality will be tested inside the space from the point of access to the bottom and/or the work area inside the PRCS. When monitoring for atmospheric hazards, the air monitor should be lowered into the space in 2-3 foot intervals. At each interval, the air monitor should be allowed a 1 to 2 minute testing / assessing period. Once all readings are acquired and it is safe to enter, the entry permit will be completed, issued and a entry / exit log will be initiated allowing the authorized entrant(s) to enter the space. If the air monitor sounds an alarm, no entry into the space will be allowed. The confined space supervisor will assess the readings on the air monitor and consult an Industrial Hygienist on additional techniques to create and maintain an acceptable atmospheric condition inside the PRCS (i.e. additional ventilation or respiratory controls). While inside the PRCS, if at any time the air monitor alarm sounds, the entrant(s) will exit the space immediately and the entry permit will be terminated. An entry / exit log will be posted at the access/egress areas and must be signed by all authorized entrant(s) each time he or she enters / exits the space.

Atmospheric monitor make/model: _____

Atmospheric monitor serial number: _____

Has the atmospheric monitor been calibrated?: _____

Will an authorized entrant be wearing an atmospheric monitor?: _____

If no, where will the monitor be positioned? (explain): _____

Note: No access to the confined space shall be allowed without first testing the space for oxygen content (not below 19.5 percent or above 23.5 percent) then for combustible gases and vapors, and then for toxic gases and vapors. Per OSHA 1910.146(d)(5)(iii).

Ventilation:

Yes No Will ventilation be implemented during entry into the PRCS? (if yes, explain in detail):

_____

Ventilation equipment make/model: _____

Fuel powered?: ☐ Electrically powered?: ☐

Note: Consider placement of ventilation equipment. Avoid placing ventilation equipment intake near running fuel powered equipment or exhaust or next to any other recognizable atmospheric/toxic hazard(s).

Ventilation output: _____ *CFM (cubic feet per minute)*

Note: Consider any bends in ventilation hose as this will decrease the CFM output (reference manufacturer's specs).

Volume of the PRCS (cubic feet): _____ Approx air exchanges per hour: _____

Calculation: (Ventilation output CFM x 60) / volume of PRCS = Air Exchanges Per Hour.
Note: Implementation of ventilation must be continuous in all PRCS

Work Activity

Describe the job tasks and type of work that will be conducted inside of the PRCS:

_____

_____

_____

_____

Yes No Will the job tasks performed inside of the PRCS create additional hazards? (if yes, explain):

Yes No Will engineering controls be implemented to control hazards? (if yes, explain):

Personal Protection Equipment (PPE)

List required PPE:

1- _____ 2- _____

3- _____ 4- _____

5- _____ Other- _____

Yes No Will respiratory equipment be required/utilized? (if yes, explain/list type, make & model):

Note: All workers utilizing respiratory equipment shall supply and attach a copy of his/her medical clearance & fit test.

Lighting

Yes No Is the PRCS properly lit? (if no, explain lighting equipment that will be used):

Yes No Will explosion proof or intrinsically safe lighting be required?

Alternate Entry Procedures (Per OSHA 29 CFR 1926.1203[e])

Alternate Entry Procedures may be used provided that the following conditions are met:

1- The employer can demonstrate that forced air alone is sufficient to maintain that permit space safety for entry and that, in the event the ventilation system stops working, entrants can exit the space safely.

2- The employer develops monitoring and inspection data that supports the demonstrations required by 1926.1203(e)(1)(i) & (ii). (atmospheric monitoring log)

3- The demonstrations, inspections and data mentioned in items 1 & 2 above are made available to everyone entering the confined space.

4- Entry into the PRCS is done in accordance with 1926.1203(e)(2)

Yes No Will alternate entry procedures be implemented for this PRCS?:

Note: although an issued permit is not required when entering via alternate entry procedures, the permit shall be filled out to document atmospheric testing results and ventilation procedures. It is best practice to implement a permit even when entering PRCS using alternate entry procedures. See atmospheric testing and ventilation sections above.

Fall Protection

Yes | No — Will fall protection equipment be required inside the PRCS? (if yes, explain in detail):

Note: If fall protection equipment is used, please reference the separate fall protection plan for more details.

Fall Protection

What type of emergency rescue will be implemented? (choose all that apply):

☐ Non-entry rescue (i.e. retrieval system)(if selected, explain system below)

☐ Entry rescue (i.e. trained rescue team)(if selected, explain system below)

☐ No emergency rescue (i.e. Alternate entry procedures will be used)

Communication Procedures

Communication between CS attendant and CS entrants will be established using the following methods (explain below):

Personnel

Authorized Entrants (print name):

1- _____ 2- _____

3- _____ 4- _____

5- _____ 6- _____

PRCS Entry Attendant (print name): _____

PRCS Entry Supervisor (print name): _____

Plan Approval

PRCS Competent Person (print name): _____

Signature: _____ Date: _____

Centennial PSO/Supt (print name): _____

Signature: _____ Date: _____

Centennial SSR (print name): _____

Signature: _____ Date: _____