



## **SDS Lumber Company LLC**

P.O. Box 480  
Carson, WA 98610  
(509) 493-2155

# **CONFINED SPACE PROGRAM**

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SDS Lumber Company

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## **GENERAL INFORMATION**

Owner: P.O. Box 480  
Carson, WA 98610  
Phone Number: (509) 493-2155

## CERTIFICATION

## **SDS LUMBER LLC MANAGEMENT APPROVAL**

The SDS Lumber Confined Space Program will be implemented as herein described.

Name:

Title:

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

SDS LUMBER LLC SAFETY MANAGER APPROVAL

The designated person responsible for Safety procedures, reporting, and training at this facility is:

Name: \_\_\_\_\_ Title: \_\_\_\_\_

I hereby certify that as the designated person, I have thoroughly examined this Confined Space Program, I understand it, and agree to put it into effect.

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

## **POLICY**

Any permit-required confined space at SDS Lumber Company may be entered only after a written Confined Space Entry Permit has been approved. All entries into confined spaces must be conducted in a safe manner consistent with applicable regulations and recognized best practices.

## **SCOPE**

This program sets forth the requirements necessary for working in confined spaces at SDS Lumber Company to prevent exposure of personnel to dangerous air contamination, oxygen deficiency, and physical hazards associated with confined spaces.

## **CONFINED SPACE ENTRY PERMIT SYSTEM**

A Confined Space Entry Permit must be completed for all confined-spaces before entry. This permit documents in writing the location(s) and type of work to be done, certifies that all existing hazards have been evaluated by the responsible qualified person(s), and ensures that necessary protective measures have been taken to protect the safety of each involved SDS Lumber Company employee. Non-permit confined spaces must be identified as such by documenting that chemical and physical hazards (e.g., oxygen levels, etc.) do not exist and by writing “Non-Permit Space” in bold print across the work permit.

1. A fully completed Confined Space Entry Permit shall be signed by the Entry Supervisor to authorize entry into a permit-required confined space.
2. The Entry Supervisor shall ensure that the permit specifies the location, type of work, personal protective measures, authorized entrants, monitoring equipment, hazards of the permit space, hazard control measures and any required rescue equipment. The procedure for contacting rescue services will also be included on the permit.
3. The permit shall be dated and carry an expiration time limiting the work to one shift. The permit must be updated for each shift, and may be extended to each shift if entry conditions are still acceptable.
4. The duration of the permit may not exceed the time required to complete the assigned task or job identified on the permit.
5. Entry Supervisor shall terminate a permit if a potential hazardous situation occurs which exceeds the conditions authorized on the permit or the entry conditions, documented in the permit have been completed.

6. Cancelled permits should be kept for at least one year and reviewed annually to evaluate the permit-required confined space program, and the protection provided to employees entering permit-required confined spaces.
7. The permit must be available at the work site outside the confined space.
8. All Confined Space Entry Permits must be given to the Entry Supervisor after the work is completed.
9. Hot work (potential ignition sources) must be authorized on a separate Hot Work Permit and attached and noted on the entry permit.
10. Individuals authorizing entry into a permit-required confined space may also serve as Entrants or Attendants if they have received the proper training.

## **ROLES and RESPONSIBILITIES of PARTICIPANTS**

### Entry Supervisor

Make sure that an Entry Supervisor:

- Authorizes the entry into a permit-required confined space by signing the entry permit.
- Oversees entry operations.
- Knows about the hazards that may be faced during entry, including the mode, signs or symptoms, and consequences of the exposure.
- Verifies and checks all of the following:
  - The appropriate entries have been made on the permit.
  - All tests specified by the permit have been conducted.
  - All procedures and equipment specified by the permit are in place before approving the permit and allowing entry to the space.
- Terminates the entry and cancels the permit when:
  - The assigned task or job has been completed.
  - A condition in the space that isn't covered by the entry permit is discovered.
- Verifies that adequate rescue and emergency services are available during permit-required confined space entry operations and that there is a way to contact them.
- Removes unauthorized individuals who enter or attempt to enter the permit-required confined space during entry operations.
- Determines that entry operations remain consistent with the terms of the entry permit and acceptable entry conditions are maintained:
  - Whenever responsibility for a permit-required space entry operation is transferred **and**

- At regular intervals dictated by the hazards and operations performed within the space.

### Attendant

Make sure that each permit-required confined space attendant:

- Understands the hazards that may be faced during entry, including the mode, signs or symptoms, and results of exposure to the hazards.
- Is aware of the behavioral effects of exposure to the hazard.
- Continuously maintains an accurate count of entrants in the space.
- Maintains an accurate record of who is in the permit-required confined space.
- Communicates with entrants as necessary to monitor their status or alert them of the need to evacuate the space.
- Orders entrants to evacuate the space immediately if any of the following conditions occur:
  - A prohibited condition is detected;
  - Any unusual behavior by the entrant is detected;
  - A situation outside the space that could endanger entrants is detected;
  - The attendant can't effectively and safely perform his/her duties.
- Takes the following actions when unauthorized persons approach or enter a space:
  - Warns unauthorized persons to stay away from the space.
  - Tells the unauthorized persons to exit immediately if they have entered the space.
  - Informs entrants and the entry supervisor if unauthorized persons have entered the space.
- Performs non-entry rescues as specified by the rescue procedure.
- Has the means to respond to an emergency affecting one or more of the permit spaces being monitored without preventing performance of the attendant's duties to the other spaces being monitored.
- Carries out no duties that might interfere with their primary duty to monitor and protect the entrants.
- Calls for rescue and other emergency services as soon as entrants may need assistance to escape from the space.
- Monitors entry operations until relieved by another attendant or all entrants are out of the space.

### Entrants

Make sure that all entrants:

- Know the hazards they may face during entry, including the mode, signs or symptoms, and results of exposure to the hazards.
- Use equipment properly.

- Communicate with the attendant as necessary so the attendant can:
  - Monitor entrant status.
  - Alert entrants of the need to evacuate.
- Alert the attendant whenever either of these situations exist:
  - A warning sign or symptom of exposure to a dangerous situation such as, behavioral changes, euphoria, giddiness potentially from lack of oxygen or exposure to solvents.
  - A prohibited condition.
- Exit from the permit-required confined space as quickly as possible when one of the following occurs:
  - The attendant or entry supervisor gives an order to evacuate.
  - The entrant recognizes any warning sign or symptom of exposure to a dangerous situation.
  - The entrant detects a prohibited condition.
  - An evacuation alarm is activated.

## **CONFINED SPACE ENTRY PROCEDURES**

### **Hazard Control**

1. Prior to entering a permit-required confined space, prepare the gas detector by ensuring the device has been recently calibrated (check manual for frequency) and is in good working order.
2. Sample the air quality by slightly moving the lid, or by testing the confined space through the hole in the lid (if available) before completely opening the space. Sample in the following order:
  1. Oxygen
  2. Flammable gases and vapors
  3. Potential toxic air contaminants
3. Lower the air sampling probe slowly, allowing time for the instrument to detect atmospheric changes at different vertical heights within the space. Be sure to sample at floor/ground level as some hazardous gases are heavier than air and will settle at the bottom of a confined space.
- 4.. When possible, before a Confined Space entry is made, the product in the Confined Space should be completely drained out, pumped to an alternate location, or otherwise disposed of.
5. Ventilate the Confined Space using one or more blowers. Ventilation must be forced draft discharge of clean air into the space (not exhaust of space). Ensure that blowers remain on during the entire entry operation.

6. All lines, including sewer connections that are connected to the Confined Space, should be investigated as possible hazards. If the Confined Space requires any type of cleaning or purging before entry, the connecting lines should be cleaned or purged in the same manner. Make sure that all sewer connections are isolated.
7. Guard against activating any mechanical apparatus in a Confined Space. If the device is air, water, or steam operated, disconnect the line(s) that supply power to the device. If the power source is electrical, the disconnect must be locked out. Where possible, a coupling should be broken, or drive belts removed from the power source before entering the Confined Space.
8. All local pumps, valves, electrical switches and the main circuit breaker panel, or fuse providing energy to the space, must be locked out and tagged out by the entrant(s).

### **Permit-Required Entry Procedures**

1. The Entry Supervisor shall be notified prior to the time an Entrant enters a permit-required confined space.
2. A Confined Space Entry Permit shall be properly completed and signed by the Entry Supervisor prior to entry into the permit-required confined space.
3. The Entry Supervisor shall establish appropriate rescue procedures specific to the space entry and shall list these procedures on the permit.
4. All hazardous energy sources shall be locked and tagged out.
5. Blind or disconnect and cap all input lines, so that no hazardous materials can enter the space.
6. Empty the space of any materials that may be hazardous.
7. Each individual entering a permit-required confined space will, whenever practical, have a safety or retrieval line attached to a body harness or wristlets. The other end of the line must be secured to a secure anchor point or lifting device (i.e. tripod) outside the entry portal. Note: The anchor point shall not be secured to a motor vehicle in a manner that would pull the line out of the space if the vehicle moved. A retrieval line is not required if:
  - a) A permit space has obstructions or turns that would prevent pull on the retrieval line from being transmitted to the entrant, or
  - b) A permit space has obstructions or turns that would prevent pull on the retrieval line from being transmitted to the entrant, or

- c) A permit space from which an employee being rescued with the retrieval system has projections which would injure the employee if forcefully removed, or
  - d) A permit space when entered by an entrant using an air supplied respirator and retrieval line could pose an entanglement hazard.
8. Prior to entry, the atmosphere within the permit-required confined space shall be tested (in this order) for oxygen content, combustible gases and vapors, and toxic gases and vapors.
  9. At least one Attendant shall be provided outside the permit space into which entry is authorized for the duration of the entry operations.
  10. Prior to entry, the Attendant shall verify that the entry conditions are acceptable.
  11. The Attendant will continuously monitor the portable gas detector and record the readings every hour (minimum).
  12. Personal protective equipment, including respirators, shall be provided to entrants as necessary for safe entry into the confined space.
    - a) All PPE must be approved by the Entry Supervisor.
    - b) An air supplied respirator shall be used for entry into an unknown atmosphere. The rescue team, with self-contained breathing apparatus (SCBA) must be present on-site and immediately available if entry is into an atmosphere that is actually or potentially immediately dangerous to life or health.
  13. An immediate evacuation of the space shall be ordered if the safety equipment fails or if the space becomes, or has the potential to become, immediately hazardous.
  14. Any use of chemicals or welding, soldering, or cutting operations must be approved by the Entry Supervisor.

## **EMERGENCY RESCUE FROM A CONFINED SPACE**

Historically, many rescuers are killed while attempting a confined space rescue. In light of this fact, emergency rescues within confined spaces should only be attempted by person who are properly trained and have the proper rescue equipment.

1. All rescues attempted by SDS Lumber Company employees will be **non-entry rescues** (i.e. rescuer will not enter the space at any time during the rescue). Non-entry methods should be used at all times unless this:
  - Would increase the overall risk of injury to entrants  
**or**
  - Wouldn't contribute to the rescue of the entrant.
2. Rescues that require entry into the confined space will be performed by the Bingen Fire Department.
3. To facilitate rescue, each confined space entrant will use a full-body harness, chest harness, or wristlets with a retrieval line attached. The retrieval line is to be attached to a mechanical device or a fixed point outside the space so rescue can begin as soon as necessary. Mechanical retrieval equipment must be available to retrieve entrants from vertical spaces greater than 5 feet deep. Retrieval equipment shall include (but not be limited to) the following:
  - Full-body harness, chest harness or wristlets
  - Rescue tripod
  - Rope or cable
4. The Entry Supervisor will notify the Bingen Fire Department prior to any confined space entries that could potentially expose entrants to hazards that are immediately dangerous to life or health (IDLH). The Bingen Fire Department will be present for the duration of any such confined space entries. Should the Bingen Fire Department have to leave (to respond to an emergency, etc.) during such a confined space entry, the entrant(s) would immediately be removed from the space until appropriate rescue services are again immediately available to provide rescue.
5. All persons involved in confined space rescue activities must have received training and practiced a rescue within the previous 12 months.
6. At least one member of the rescue team must have current certification in first aid and cardiopulmonary resuscitation (CPR).

## TRAINING

All SDS Lumber Company employees who participate in permit-required confined space activities including Entry Supervisors, Attendants, and Entrants must receive training so they acquire the understanding, knowledge, and skills necessary to safely perform their assigned duties.

Employees who are designated as rescue personnel must be trained in proper rescue techniques as well as First Aid and CPR.

Training is to be provided before an employee is first assigned to permit-required confined space activities.

## **DEFINITIONS**

**Acceptable Entry Condition** – The conditions that must exist in a permit-required confined space that allow safe entry and work.

**Alternate Entry Procedure** – A procedure that may be used to enter a confined space if the only hazard present in the space is atmospheric in nature and:

- The atmospheric hazard can be controlled by mechanical ventilation alone; and
- The permit space will not become immediately dangerous to life and health (IDLH) if the mechanical ventilation should fail.

**Attendant** – An individual stationed outside one or more permit required confined spaces to monitor the entrants.

**Confined Space** – A space that is **all** of the following:

- Large enough and so configured that an employee can bodily enter and perform work; and
- Has limited or restricted means for entry or exit (examples include tanks, vessels, silos, storage bins, hoppers, vaults, excavations, and pits); and
- Not primarily designed for human occupancy.

**Engulfment** – The surrounding capture of a person by a liquid or finely divided (flowable) solid substance that can be inhaled 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.

**Entrant** – An employee who is authorized by SDS Lumber Company to enter a permit required confined space.

**Entry** – The action by which a person passes through an opening into a permit-required confined space. Entry 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** – The written document that allows and controls entry into a permit-required space.

**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 by this program.

**Hazardous Atmosphere** – An atmosphere that may expose employees to the risk of death, incapacitation, impairment of ability to self-rescue, or acute illness resulting from the following:

- Flammable gas, vapor, or mist in excess of 10 percent of its lower flammable limit (LFL).
- Airborne combustible dust at a concentration that meets or exceeds its LFL.
- Atmospheric oxygen concentrations below 19.5% or above 23.5%.
- Atmospheric concentration of any substance which may exceed a permissible exposure limit (PEL).
- Any other atmospheric condition immediately dangerous to life or health (IDLH).

**Hot Work Permit** – A written authorization to perform operations, for example, riveting, welding, cutting, burning, and heating that can provide a source of ignition.

**Immediately Dangerous to Life or Health (IDLH)** – Any of the following conditions:

- An immediate or delayed threat to life.
- Anything that would cause irreversible adverse health effects.
- Anything that would interfere with an individual's ability to escape unaided from a permit-required confined space.

**Inerting** – The displacement of the atmosphere in a permit-required confined 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-required confined 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** – 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 actual hazards or potential hazards capable of causing death or serious physical harm.

**Oxygen Deficient Atmosphere** – An atmosphere containing less than 19.5% oxygen by volume.

**Oxygen Enriched Atmosphere** – An atmosphere containing more than 23.5% oxygen by volume.

**Permit-Required Confined Space or Permit Space** – A confined space that has one or more of the following characteristics capable of causing death or serious physical harm:

- Contains or has a potential to contain a hazardous atmosphere.
- Contains a material with the potential for engulfing someone who enters.
- Has an internal configuration that could allow someone entering to be trapped or asphyxiated by inwardly converging walls or by a floor, which slopes downward and tapers to a smaller cross section.
- Contains any physical hazard. This includes any recognized health or safety hazards including engulfment in solid or liquid material, electrical shock, or moving parts.
- Contains any other recognized serious safety or health hazard that could either:
  - Impair the ability to self-rescue or
  - Result in a situation that presents an immediate danger to life or health.

**Permit-Required Confined Space Program** – An overall program for:

- Controlling and appropriately protecting employees from permit-required confined space hazards; and
- Regulating employee entry into permit-required confined spaces.

**Prohibited Condition** – Any condition in a permit-required confined space that isn't allowed by the permit during the authorized entry period.

**Rescue Service** – The personnel designated to rescue employees from permit-required confined spaces.

**Testing** – The process of identifying and evaluating the hazards that entrants may be exposed to in a permit-required confined space. Testing includes specifying the tests that are to be performed in a permit-required confined space.

# CONFINED SPACE ENTRY PERMIT

## GENERAL INFORMATION

Space to be Entered: \_\_\_\_\_

PERMIT NO. \_\_\_\_\_

Location/Building: \_\_\_\_\_

Purpose of Entry: \_\_\_\_\_

Authorized Duration of Permit: Date: \_\_\_\_\_ To: \_\_\_\_\_

## PERMIT SPACE HAZARDS (Indicate specific hazards with initials)

- Oxygen deficiency (less than 19.5%)
- Oxygen enrichment (greater than 23.5%)
- Flammable gases or vapors (Greater than 10% LEL)
- Airborne combustible dust (meets or exceeds LEL)
- Toxic gases or vapors (Greater than PEL)
- Mechanical hazards
- Electrical Shock
- Materials harmful to skin
- ~~Explosives~~
- Other: \_\_\_\_\_

## EQUIPMENT REQUIRED FOR ENTRY AND WORK

Specify as Required:  
Personal Protective Equipment: \_\_\_\_\_

Respiratory Protection: \_\_\_\_\_

Atmospheric Testing/Monitoring: \_\_\_\_\_

Communication: \_\_\_\_\_

Rescue Equipment: \_\_\_\_\_

Other: \_\_\_\_\_

## PREPARATION FOR ENTRY (Check after steps have been taken)

- Notification (notify departments of service interruptions)
- Isolation Methods:  Lockout/~~Tagout~~  Purge/Clean  
 Inert  Ventilate  Barriers  
 Other: \_\_\_\_\_
- Personal Awareness:  Pre-entry briefing on ~~specific~~ hazards and control methods  
 Notify Contractors of permit and hazard conditions  
 Other: \_\_\_\_\_
- Additional Permits: (Required and/or attached)
  - ~~WWWWWW~~
  - Line Breaking
  - Other: \_\_\_\_\_

## COMMUNICATION PROCEDURES

To be used by attendants and entrants:

\_\_\_\_\_

\_\_\_\_\_

## AUTHORIZED ENTRANTS (List by name or attach roster)

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

## EMERGENCY SERVICE

Name of Service	Phone Number	Method of Contact
_____	_____	_____

## AUTHORIZED ATTENDANTS (List by name)

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

## TESTING RECORD

Time	Acceptable Conditions	Result AM/PM											
Oxygen-min	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
Oxygen-man	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
Flammability	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
H <sub>2</sub> S	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
Toxic (specify)	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
Cl <sub>2</sub>	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
SO <sub>2</sub>	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
Heat	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
Other	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
Tester Initials	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____

## AUTHORIZATION BY ENTRY SUPERVISORS

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

Printed Name: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Time: \_\_\_\_\_

THIS PERMIT MUST BE POSTED ON JOB SITE • GOOD ONLY ON INDICATED DATE