


CONFINED SPACE POLICY		
NYRSTAR CLARKSVILLE INC		
Department	Safety & Health	
		Document number TP – 563-00009

R- Indicates a Revision

1. Purpose

To provide for the safety of all personnel who may have to enter a confined space to perform work. To prevent incidents associated with work in confined spaces and to eliminate harmful exposures by identifying existing and potential hazards.

2. Definitions

TERM	DEFINITION
Confined Space	Any space that has: <ul style="list-style-type: none"> • Adequate size and configuration for employee entry • Limited means of access or egress • Is not designed for continuous employee occupancy • Examples of confined spaces include, but are not limited to – process tanks, vessels, tank trucks, rail cars, boilers, bag houses, manholes, pits, silos, storage bins, hoppers, shafts, and certain types of vaults.
Permit Required Confined Space	A confined space that presents or has the potential to present: <ul style="list-style-type: none"> • An atmospheric hazard • An engulfment hazard • An internal configuration hazard • Any other recognized serious hazard
Hazardous Environment	<ul style="list-style-type: none"> • Flammable gas, vapor, or mist in excess of 10% of its lower flammable limit. • Airborne combustible dust at a concentration that meets or exceeds its Lower combustible limit. • Atmospheric oxygen concentration below 19.5 percent or above 23.5%. • Atmospheric concentration of any substance for which a dose or a permissible exposure limit is listed in 29 CFR 1910 Subpart G or Z, which could result in employee exposure in excess of those exposure limits.
Confined Space Entrant	The employee authorized to enter into a permit-required confined space.

**Confined Space
Attendant**

The individual stationed outside the confined spaces who monitors and maintains communication with the authorized entrant's. The Confined Space Attendant will not perform other duties that will interfere with their assigned duties as the Attendant.

Entry Supervisor

The person responsible for determining if acceptable entry conditions are present at a permit space where entry is planned, for authorizing the entry and overseeing entry operations, and for terminating the entry as required.

3. References

Nyrstar Group Documents:

Nyrstar Group Standard TS201: Confined Space Entry

4. Procedure

4.1. Permit Entry

Before entry may be authorized, a permit must be filled out including the authorized Entry Supervisor's signature. The authorized permit must be available to all entrants at the time of entry by posting it at the entry portal so that pre-entry preparations are confirmed. Entry shall be terminated, or canceled when the permit expires, or unsafe conditions are possible, as determined by the Entry Supervisor. All canceled permits shall be retained for one year, which enable reviews of the events that took place. The Entry Permit shall be specific to the confined and must include:

- Permit space to be entered
- Purpose of entry
- Date and authorization
- Duration of the entry permit
- Names of authorized entrants
- Names of personnel serving as attendants
- Individuals' name who is the current Entry Supervisor with their signature
- Hazards in permit space to be entered
- Measures used to isolate the permit space and to eliminate or control hazards before entry.
- Locks and tags will be applied by both confined space entrants and attendants.
- Acceptable entry conditions. The space will meet acceptable entry conditions prior to entry.
- Results of the atmospheric testing with the names of who conducted the test and time of the test. All monitors will be calibrated quarterly. Some tasks may require 100% atmospheric testing.
- Emergency response procedures.

- Communication used during entry will be by two-way radios and coordinated through the Site Security Office.
- Any other necessary information or additional permits, such as hot work that have been authorized

4.2. Training:

Nyrstar Clarksville shall train all affected employees so that they will acquire the understanding, knowledge, and the skill necessary for safe duties prior to making a confined space entry. Training shall occur prior to being assigned a task inside a confined space. Retraining shall be provided when conditions in the normal routine change or the employee exhibits inadequacies. Nyrstar Clarksville shall ensure that affected employees are proficient in the duties they will carry out. Employees shall be certified in their training, which shall include:

- Employee Name
- Signature of trainer
- Dates of training
- Records will be accessible for audit

4.3. During Entry:

Additional safety considerations, such as the following shall be considered during the Pre-Task Risk Assessment:

- Electrical safety: battery powered tools and lighting are strongly preferred; if impossible, low voltage tools and lighting with the use of ground fault interrupters (GFCI's) required.
- If hot work is to be conducted inside a confined space which consist of; welding, grinding, etc. an additional Hot Work Permit will be required. Hot work that generates hazardous gases will require continuous ventilation and atmospheric monitoring.
- Under no circumstances will gas cylinders, or CO2 fire extinguishers be allowed in confined spaces. All items used to perform hot work will be removed from the confined space when the work is complete.
- All vertical entries into confined spaces will require the use of a tripod and retrieval system

4.4. Rescue and Emergency Services:

R- Local Emergency Responders will be utilized for confined space rescue. Safety Data Sheets (SDS) shall be available to the medical facility treating the exposed entrant for any contaminant source that the injured party may have come into contact with.

5. Locations/Posting of Permit Required Confined Spaces:

- All Permit Required Confined Spaces locations will be listed on signs that are posted at each entrance into the department.
- All Permit Required Confined Spaces are to be marked with appropriate warning signs at or near the entrances into the confined space.
- Locations will be identified by equipment number, name, and possible hazards.

6. Audit and Review

This document will be reviewed every 12 months by the SHEQ Manager.

7. Accountabilities

The SHEQ Manager is accountable for this Policy.