

CHAPTER 8 CONFINED SPACE

1.0 REFERENCES AND RESOURCES:

[WAC 296-809](#)
[SPPM 3.32](#)

2.0 APPENDICES:

Appendix A Confined Space Survey Summary

3.0 PURPOSE and SCOPE:

The CAHNRS Confined Space Program establishes policy to protect *CAHNRS* employees from hazards, associated with confined space entry. A confined space must meet all of the following requirements to be subject to the requirements in this chapter:

- 1) Large enough for an employee to enter fully;
- 2) Restricted entrance and exit e.g. tanks, vessels, silos, storage bins, hoppers, vaults, excavations, and pits;
- 3) Not designed for human occupancy.

A permit-required confined space meets the above requirements *and one or more of the following characteristics*:

- 1) Contains or has a potential to contain a hazardous atmosphere;
- 2) Contains a material with the potential for engulfing someone who enters;
- 3) 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;
- 4) Contains any physical hazard. This includes any recognized health or safety hazards including engulfment in solid or liquid material, electrical shock, or moving parts;
- 5) Contains any other recognized serious safety or health hazard that could either:
 - (a) Impair the ability to self-rescue; or
 - (b) Result in a situation that presents an immediate danger to life or health.

CAHNRS employees will not enter permit-required confined spaces. However, alternate entry procedures may be utilized to control hazards as described in the following sections.

4.0 RESPONSIBILITIES:

Supervisors are responsible for identifying projects and tasks subject to this chapter and verifying conditions allowing for entry into a non-permit required confined space.

Note: It is possible that in the course of assigning employees work, a supervisor may unknowingly assign employees to tasks which require confined space entry; therefore:

Employees are responsible for identifying tasks requiring confined space entry to their supervisor if

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encountered.

5.0 TRAINING REQUIREMENTS:

This program will provide guidance on classifying permit required and non-permit required confined spaces, along with identifying designated employee duties and use of required equipment.

- Supervisors must receive sufficient training to evaluate hazardous atmospheres and other potential hazards outlined in Section 3.0 defining a permit-required confined space. Supervisors may consult with additional subject matter experts as needed to support this evaluation.
- Employees must receive sufficient training to:
 - Identify a confined space as defined in Section 3.0;
 - Understand the controls in place e.g. lock-out-tag-out (see Chapter 20) to render the space "non-permit required."
- Facilities Services will provide protective measures such as posting signs reading; Danger-Permit Required Confined Space, DO NOT ENTER" or other similar wording, or protective measure that may include bolted covers, or locks.
- CAHNRS personnel may be trained as attendants to assist Facilities Services personnel entering permit-required confined spaces.

CONFINED SPACE EQUIPMENT:

Confined space atmospheres will be evaluated with a 4 gas meter and/or other direct reading instruments as necessary (whenever there is reason to suspect a hazardous atmosphere), EHS personnel will not enter confined spaces with hazardous atmospheres. Engulfment sources or sources of hazardous energy and/or equipment will be locked-out (see Chapter 20) to render the space not permit required prior to personnel entry. All criteria in Section 3.0 defining a permit-required confined space shall be eliminated prior to personnel entry.

Appendix A: Confined Space Survey Summary**Confined Space Survey Summary**

#	Location	Space	CS	PRCS	APCS	Sign	Notes
44	CA Steam Plant	Coal Bin #1	Y	Y	N	No	No entry required except to demo
45	CA Steam Plant	Coal Bins #3, 4 & 5	Y	Y	N	No	No entry required except to demo
38	Feed Mill	Roof Top Grain Bins	Y	Y	N	Yes	A new sign is needed
43	GW Steam Plant	Oil Tank	Y	Y	N	No	A sign is needed
1	Beef Center	Large Bin	Y	N	N	Yes	No entry required
2	Beef Center	Medium Bin	Y	N	N	No	No entry required
3	Beef Center	Small Bin	Y	N	N	No	No entry required
4	Cattle Feeding Labs	Grain Bin 1	Y	N	N	No	No entry required
5	Cattle Feeding Labs	Grain Bin 2	Y	N	N	No	No entry required
6	Cattle Feeding Labs	Grain Bin 3	Y	N	N	No	No entry required
7	Cattle Feeding Labs	Grain Bin 4	Y	N	N	No	No entry required
8	Cattle Feeding Labs	Grain Bin 5	Y	N	N	No	No entry required
9	Cattle Feeding Labs	Grain Bin 6	Y	N	N	No	No entry required
10	Cattle Feeding Labs	Grain Bin 7	Y	N	N	No	No entry required
11	Cattle Feeding Labs	Grain Bin 8	Y	N	N	No	No entry required
12	Cattle Feeding Labs	Grain Bin 9	Y	N	N	No	No entry required
13	Cattle Reproduction Labs	Grain Bin N	Y	N	N	No	No entry required
14	Cattle Reproduction Labs	Grain Bin S	Y	N	N	No	No entry required
15	Central Stores	N Filling Shed	N	N	N	NA	This operation is moving
16	Creamery	Cheese Vat	Y	N	N	Yes	LOTO from outside the space
17	Creamery	Pasteurizer Vat	Y	N	N	Yes	LOTO from outside the space
19	Dairy Center	CUDS Milk Storage Tank	Y	N	N	Yes	LOTO from outside the space

#	Location	Space	CS	PRCS	APCS	Sign	Notes
20	Dairy Center	Grain Bin 1	Y	N	N	No	Hazards controlled from outside space
25	Dairy Center	Grain Bin 10	Y	N	N	No	Hazards controlled from outside space
26	Dairy Center	Grain Bin 12	Y	N	N	No	Hazards controlled from outside space
27	Dairy Center	Grain Bin 13	Y	N	N	No	Hazards controlled from outside space
21	Dairy Center	Grain Bin 2	Y	N	N	No	Hazards controlled from outside space
23	Dairy Center	Grain Bin 8 (labeled 7 2030)	Y	N	N	No	Hazards controlled from outside space
24	Dairy Center	Grain Bin 9 (labeled 2012)	Y	N	N	No	Hazards controlled from outside space
22	Dairy Center	Grain Bins 3-6	Y	N	N	No	Hazards controlled from outside space
18	Dairy Center	Mothballed Grain Bin	Y	N	N	No	Bin is moth-balled; used for parts
28	Dairy Center	Knott Milk Storage Tank	Y	N	N	Yes	LOTO from outside the space
29	Feed Mill	L1 Elevator Leg Access Pit	Y	N	Y	No	A sign is needed
30	Feed Mill	Big Fat Tank	Y	N	N	Yes	No entry required
31	Feed Mill	South Elevator Pit	Y	N	Y	No	A sign is needed
32	Feed Mill	Weigh Hopper	Y	N	N	Yes	No entry required
33	Feed Mill	Molasses Tank (disabled)	Y	N	N	Yes	No entry required
34	Feed Mill	L2 Elevator Pit	Y	N	Y	No	A sign is needed
35	Feed Mill	Old Fat Tank (disabled)	Y	N	N	Yes	No entry required
36	Feed Mill	Outside Molasses Tank	Y	N	N	Yes	No entry required
37	Feed Mill	Sump	Y	N	Y	Yes	A new sign is needed
39	Golf Course	Backflow Preventer Pit	Y	N	N	No	
40	Golf Course	Water Meter Pit	Y	N	N	No	
41	Nat. Res. Airport Way	Water Shut-Off Valve	Y	N	N	No	
42	Nat. Res. Airport Way	Pump House	N	N	N	No	
46	Swine Center	Grain Bin 1002	Y	N	N	No	No entry required
47	Swine Center	Grain Bin 1021	Y	N	N	No	No entry required
48	Swine Center	Grain Bin 1	Y	N	N	No	No entry required
49	Swine Center	Grain Bin 2	Y	N	N	No	No entry required

#	Location	Space	CS	PRCS	APCS	Sign	Notes
50	Swine Center	Grain Bin 3	Y	N	N	No	No entry required
51	Swine Center	Grain Bin 4	Y	N	N	No	No entry required
52	Swine Center	Grain Bin 5	Y	N	N	No	No entry required
53	Swine Center	Grain Bin 6	Y	N	N	No	No entry required
54	Swine Center	Grain Bin 7	Y	N	N	No	No entry required
55	Swine Center	Grain Bin 8	Y	N	N	No	No entry required
56	Swine Center	Grain Bin 9	Y	N	N	No	No entry required
57	Tukey Farm	Water Meter Pit	Y	N	N	No	
58	Fuel Pump Area	3 Wells	Y	N	Y	No	Procedures documented
59	Campus Wide	Sanitary Sewer System	Y	N	Y	No	Procedures documented
60	Campus Wide	Storm Water System	Y	N	Y	No	Procedures documented

CS: Confined Space **PRCS:** Permit Required Confined Space **APCS:** Alternate Procedures Confined Space