ATTACHMENT 1 - HAZARD ANALYSIS GUIDELINES

Characteristics of the Space

- ❑ Current/previous contents of space
- ❑ Hazards posed by residue (E.g. inhalation, skin/eye contact, etc.)
- ❑ Unusual problems posed by configuration (E.g. restricted movement, interference with ventilation or atmospheric testing)
- ❑ Hazards posed by interior surfaces (E.g. slippery?)
- ❑ Projections/objects posing safety hazards
- ❑ Size and location of entry portal
- ❑ Hazards in vicinity of entry portal
- ❑ Potential hazards presented by adjacent operations
- ❑ Adequacy of lighting
- ❑ Is space stationary or mobile?

Atmospheric Hazards

- ❑ Possibility of oxygen deficiency/enrichment
- ❑ Potential air contaminants present
- ❑ Potential air contaminants which might be generated during planned work in space
- ❑ Possibility of flammable atmosphere at time of entry or atmosphere becoming flammable during work in space

Physical Hazards

- ❑ Mechanical equipment in space
- ❑ Fluid lines attached
- ❑ Hazards posed by portable equipment to be taken into space
- ❑ Potential for engulfment
- ❑ External hazards (E.g. electrical components, mechanical equipment, vehicle/pedestrian traffic)

Other Considerations

- ❑ Noise producing operations
- ❑ Potential radiation hazards (from thickness gage sources or X-ray equipment)
- ❑ Potential for contact with vermin, snakes, etc.
- ❑ Hazards introduced by equipment used for work operations (E.g. equipment for cleaning, personal protective clothing, etc.)

Reference: Complete Confined Spaces Handbook, J. F. Rekus, National Safety Council.

EXAMPLES OF OSHA STANDARDS WHICH RESTRICT CONFINED SPACE WORK

29 CFR 1910.94 Open Surface Tanks

29 CFR 1910.252 Welding

ATTACHMENT 1 - CONFINED SPACE HAZARD ANALYSIS FORM	
Person completing analysis:	**Date:**
Space to be entered:	
Reason for entry:	
Operations to be performed:	
Characteristics of the Space	
1. Current/previous contents of space	
2. Hazards posed by residue (E.g. inhalation, skin/eye contact, etc.)	
3. Unusual problems posed by configuration (E.g. restricted movement, interference with ventilation or atmospheric testing)	
4. Hazards posed by interior surfaces (E.g. slippery?)	
5. Projections/objects posing safety hazards	
6. Size and location of entry portal	
7. Hazards in vicinity of entry portal	
8. Potential hazards presented by adjacent operations	
9. Adequacy of lighting	
10. Is space stationary or mobile?	
Atmospheric Hazards	
11. Possibility of oxygen deficiency/enrichment	
12. Potential air contaminants present	
13. Potential air contaminants which might be generated during planned work in space	
14. Possibility of flammable atmosphere at time of entry or atmosphere becoming flammable during work in space	
Physical Hazards	
15. Mechanical equipment in space	
16. Fluid lines attached	
17. Hazards posed by portable equipment to be taken into space	
18. Potential for engulfment	
19. External hazards (E.g. electrical components, mechanical equipment, vehicle/pedestrian traffic)	
Other Considerations	
20. Noise producing operations	
21. Potential radiation hazards (from thickness gage sources or X-ray equipment)	
22. Potential for contact with vermin, etc.	
23. Hazards introduced by equipment used for work operations (E.g. equipment for cleaning, personal protective clothing, etc.)	

Reference: Complete Confined Spaces Handbook, J. F. Rekus, National Safety Council.