

		Confined Space Matrix	Revision Level:
Initiated by:	Section:		Page 1 of 1
		Exhibit H1-2	

ALL CONFINED SPACES TO BE LABELLED DANGER - CONFINED SPACE - NO UNAUTHORIZED ENTRY

Confined Space Minimum Requirements	Pre-Job Meeting	Signed Entry Permit	Blank/Lockout Feed & Discharge	Barricade Openings	Ambient Air Ventilation Provided	GFCI or Electrical Equip. Dbl. Insulated	Rescue Workers/Equipment on Stand-By	Respiratory Equipment	Adequate Lighting	Powered Air Purifying Respirator (PAPR) or Full-Face Respirator	Fire Extinguisher in Space	Temporary Ventilation to Space	Atmospheric Testing for Oxygen & LEL, others	Record of Atmospheric Testing on Entry Permit	Attendant on Duty WITH Communications	Entrant Removal Equipment w/harness	Brick Lined Mills & Equipment Shored Up	Dryer Shutdown and Cooled	Dust Collection needs to Purge Space 10 min.	Dryer Fuel Feed Lines Closed & Locked-Out	When Entering Fluid Bed Dryer thru Plenum, all Structures Shored-Up	All Hatches Open, if possible, for Ventilation	Railcar Wheels Chocked - Brake Set
Typical Confined Space Entries with NO Additional Hazards	X	X	X	X	X	X	X	X	X				X	X	X								
Welding/Cutting Inside Space	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X								
Chemical or Other Toxins in the Space	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X								
Material/Product Bins, Silos or Tanks	X	X	X	X	X	X	X	X	X				X	X	X	X							
Welding in Bins, Silos, Tanks	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X							
Chemicals, Other Toxins in Bins, Silos, Tanks	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X							
Entry Inside Grinding Mills	X	X	X	X	X	X	X	X	X				X	X	X		X						
Welding Inside Grinding Mills	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X						
Chemicals or Other Toxins in Grinding Mills	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X						
Entry into Dryers	X	X	X	X	X	X	X	X	X				X	X	X-1			X	X	X	X		
Welding in Dryers	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X-1			X	X	X	X		
Dryers with Chemicals or Other Toxins	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X-1			X	X	X	X		
Entry into Hoppers	X	X	X	X	X	X	X	X	X				X	X	X-2								
Welding in Hoppers	X	X	X	X	X	X	X	X	X	X	X	X-3	X	X	X-2								
Chemicals or Other Toxins in Hoppers	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X								
Entry into Railcars	X	X	X	X	X	X	X	X	X				X	X	X	X						X	X

- X-1 Site conditions may permit exclusion of this requirement, however, a schedule of periodic checks (i.e., every 15, 30, 45, etc. min.) by supervision shall be established with the authorized entrants.
- X-2 When the hopper involved is related to ore trucks, loaders, scrapers, etc., the supervisor in charge of the entry work shall advise the operator of the above equipment and assure that access areas to the hoppers are physically blocked off by means of signs, ropes, barrels, etc.
- X-3 Site conditions may exclude this requirement if the space has adequate ventilation, and development of fumes is not possible.