

Appendix E: Pyrophoric Gases

When using, handling, or storing a compressed gas that is pyrophoric, incorporate the following controls into your standard operating procedures for using, handling, and storing compressed gases.

NOTE: This information is for general guidance. Consult with your EHS representative to determine requirements for your particular usage, Call EHS @ (951) 827-5528.

CONTROL	DESCRIPTION
Engineering Control: Lecture Bottles	Lecture bottles of Pyrophoric gases that are located workspaces must be kept in a continuously mechanically exhausted ventilated hood or other continuously mechanically exhausted ventilated enclosure
Engineering Controls: Cylinders Greater than Lecture Bottle Size	Cylinders of pyrophoric gases (greater than lecture bottle size) must be kept in approved continuously mechanically ventilated, sprinklered gas cabinets and must be equipped with an excess flow control device.
Engineering Control: Above the UCR MAQ	<p>In addition to the requirements listed above, any quantity of Pyrophoric Gas above the UCR MAQ may be also required to have the following engineering controls upon consultation with your EHS representative:</p> <ul style="list-style-type: none"> • The workspace must be equipped with a continuous gas detection system. • The gas detection system must initiate a local alarm that is both visible and audible. • The gas detection system must transmit a signal to a constantly attended control station. • Activation of the gas detection system must automatically shut off the flow of gas related to the system being monitored. • The gas detection system must detect the presence of gas at or below the Lower Explosive Limit (LEL). If the gas is also toxic, the system must detect the presence of gas at or below the OSHA permissible exposure level or ceiling limit of the gas in lieu of the LEL. • Emergency power must be provided for the exhaust ventilation, gas detection system, and alarm systems when required.