



THE CITY OF SAN DIEGO

**FPB POLICY
C-08-12**

**INSTALLATION PERMIT GUIDELINES FOR
COMPRESSED GAS AND CRYOGENIC SYSTEMS**

I. PURPOSE

The purpose of this policy is to clarify when an installation permit is required for compressed gas and cryogenic systems.

II. SCOPE

This policy applies to all compressed gas and cryogenic systems installed in the City of San Diego.

III. DEFINITIONS

COMPRESSED GAS CONTAINER - a pressure vessel designed to hold compressed gas at a pressure greater than one atmosphere at 68 degrees F and includes cylinders, containers, and tanks.

CRYOGENIC CONTAINER - a cryogenic vessel of any size used for transporting, handling or storage of cryogenic fluids.

COMPRESSED GAS SYTEM - an assembly of equipment designed to contain, distribute or transport compressed gases. It can consist of a compressed gas container or containers, reactors and appurtenances, including pumps, compressors and connection piping and tubing. This does not include cylinders or containers connected for individual experiments.

BULK INERT SYSTEMS - assembly of equipment such as storage containers, pressure regulators, pressure relief devices, vaporizers, manifolds, and interconnecting piping that has a storage capacity of more than 20,000 scf (566m3) of compressed gas or cryogenic fluid including unconnected reserves on site regardless of storage pressures.

BULK OXYGEN SYSTEM - assembly of equipment such as oxygen storage containers, pressure regulators, safety devices, vaporizers, manifolds, and interconnecting piping that has a storage capacity of more than 20,000 scf (566m3) of oxygen at normal temperature including unconnected reserves on site regardless of storage pressures. The oxygen containers can be stationary or movable, and the oxygen can be stored as a gas or liquid.

Fire Prevention Bureau

Fire-Rescue Department • 1010 Second Avenue, Suite 300 • San Diego, CA 92101-4903
Tel (619) 533-4400 Fax 544-6806

IV. COMPRESSED GAS AND CRYOGENIC SYSTEMS (PERMITTED AMOUNTS)

Compressed gas and cryogenic systems at or above the permit amounts specified in the table below shall require an installation permit. These systems will include, but are not necessarily limited to, single cylinders or dewars beside a piece of equipment, systems manifolded together or systems passing from one room to another location in the building.

Inert Compressed Gas Systems or Cryogenic Systems- 20,000 cubic feet or more shall comply with CGA-P-18- preferred to be located outside of buildings or in a separate room complying with CFC-2013 Chapter 55 Cryogenic Fluids and CGA-P-18 Bulk Inert Systems.

Permit Amounts for Compressed Gas Systems		
Corrosives	200 cu.ft.	
Flammable(except cryogenic fluids and liquefied petroleum gases)	200 cu.ft.	
Highly Toxic	Any Amount	
Inert and simple asphyxiants	6,000 cu.ft.	
Oxidizing (including oxygen)	500 cu.ft.	
Pyrophoric	Any Amount	
Toxic	Any Amount	
Permit Amounts for Cryogenic Fluid Systems		
Flammable	Inside Bldg.-more than 1 gal.	Outside Bldg.- 60 gals
Inert	Inside Bldg.-60 gals	Outside Bldg.-500 gals
Oxidizing (including oxygen)	Inside Bldg.-10 gals	Outside Bldg.-50 gals
Physical or health hazard not indicated above	Inside Bldg.-Any Amount	Outside Bldg.-Any Amount

V. COMPRESSED GAS AND CRYOGENIC SYSTEMS (UNDER PERMITTED AMOUNTS)

Compressed gas and cryogenic systems, regardless of amount, must follow the Requirements outlined in the California Fire Code. After installation, systems will be Inspected during routine annual inspections by CEDMAT inspectors.

Companies or laboratories installing compressed gas or cryogenic systems must submit, in writing on company letterhead, a statement that the system was installed in accordance with Fire Code. The statement shall also include the installing contractor, site plan of location of the system in the building, and the date of installation.

Statements shall be submitted to:

San Diego Fire-Rescue Department
 Fire Prevention Bureau,
 Attn: Technical Services Section
 1010 Second Ave, Suite # 300
 San Diego, CA 92101