

Construction/Operation Permit Application



Cryogenic Liquids

www.cityofvancouver.us/departments/fire-department

International Fire Code as adopted by VMC 16.04 (Washington State Fire Code)

Permitting Requirements

An **operational permit** is required to produce, store, transport on site, use, handle or dispense *cryogenic fluids* in excess of the amounts listed in Table 105.5.11. A **construction permit** is required for installation or alteration to outdoor stationary cryogenic fluid storage systems where the system capacity exceeds the amounts listed in WSFC Table 105.5.11.

Maintenance performed in accordance with the WSFC is not considered to be an alteration and does not require a construction permit. Permits are not required for vehicles equipped for using cryogenic fluids as a fuel for propelling the vehicle or for refrigerating the cargo load.

Project Information						
Site Address			Owner Name			
Other						
Applicant Info	rmation					
Company Name			Address			
Contact Name						
Office Phone		Cellular		Email		
Contractor						
Company Name			Address			
Contact Name						
Office Phone		Cellular		Email		
Application type:	☐ Installation	☐ Operation	onal 🗆 I	Both Installation	and O	perational
Installation by:	☐ Contractor	☐ Owner		Tenant		
Related Permits:	FRI	CMI	D	EF		MPE
Description of Work						

Cryogenic Fluid GAL Cryogenic Fluid GAL

TABLE 105.6.10					
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TYPE OF CRYOGENIC FLUID	INSIDE BUILDING (gallons)	OUTSIDE BUILDING (gallons)
Flammable	More than 1	60
Inert	60	500
Oxidizing (includes oxygen)	10	50
Physical or health hazard not indicated above	Any Amount	Any Amount

Electronic Plan Standards

File Naming Standards:

Electronic plans and documents shall be named as specified in the City of Vancouver_ePLANS system: https://www.cityofvancouver.us/business/permits-licenses-and-inspections/eplans/



Acceptable File Types:

Plans, calculations, specifications and supporting documents shall be uploaded as a PDF file.

Plan Sheet Standards:

All plans shall be drawn to scale, as identified in the checklist, and each sheet shall state the scale and show a measurable scale on the page for measurement calibrations.

Document Orientation:

All plans must be uploaded in "Landscape" format in the horizontal position with a north indicator. All other documents can be in "Portrait" format.

Stamped:

Where documentation contains a code analysis or engineering calculations, such documents shall be stamped by the design professional.

Minimum Submittal Checklist for Upload to ePLANS

- ☐ Completed Fire Installation Permit Application Cryogenic Liquids (this document) Check all *Permit Conditions* checkboxes that are applicable to your project
- ☐ Completed hazardous materials Inventory statement (HMIS) and hazardous materials management plan (HMMP)
- ☐ Supporting documents listed below (See *Document Details* below)
- ☐ Site plans and floor plans (see *Plan Details* below)

Document Details

	Listing of	locuments	for al	l proposed	l equipme	ent to	be used
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□ Supporting documents including listing sheets for tanks, piping, valves, and pressure relief devices.

Plan Details

The following is a list of information required on all plan submittals for review of a cryogenic liquid tank or system permit. The plan shall be drawn to 1/8'' = 1'-0'' minimum scale. The applicant is required to submit all this information so an accurate and timely review may be done:

	Site plan to include a measurable scale for calibration, indication of the nor emergency doors, emergency shutoff locations, Fire Department Connections, electrical room, gas meters, sprinkler riser, fire alarm panel, Knox Box, and loc system.	points of assembly for occu	pant evacuation,
	Cryogenic fluid storage container information such as type, material, safety feat	ures and integral equipment	or devices
		ures and integral equipment	or devices
	Materials to be stored, used or trans-loaded/transported. Foundation details that show proper construction of the foundation	TABLE 5504.3.1.2 SEPARATION OF PORTABLE	CONTAINERS
	supporting stationary tanks and it should include dimensions and materials used in construction.	FROM EXPOSURE HA	MINIMUM DISTANCE (feet)
	Separation measurements of all cryogenic containers and systems in storage	Air intakes	10
ш		Building exits	10
	or use that provide adequate distance for outside placement from materials	Combustible materials such as paper, leaves, weeds, dry grass or debris	15
	and conditions which pose exposure hazards (5504.3.1.2).	Lot lines	5
	Stationary containers separated from exposure hazards in accordance with the provisions applicable to the type of fluid contained and the separation	Other hazardous materials	In accordance with Chapter 50
	distances (5504.4.1.1).	Wall openings	1
	Indication of the portions of containers in contact with foundations or sadd protection against corrosion. Labeled dispensing areas, stating if said areas will be dispensing fluids outsid construction of those areas showing their accordance with the IBC.		·
	to a little		
Perm	it Conditions		
The foll	lowing is a list of WSFC requirements related to the installation, storage, and use	of cryogenic fluid systems. Us	e this form to
confirm	n that all applicable requirements are met. Non-applicable requirements can be le	6.1.1	
.	tillat all applicable requirements are met. Non applicable requirements can be re	π blank.	
Genera		π blank.	
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	The area surrounding stationary containers shall be provided with a means to prevent accidental discharge of fluids from
	endangering personnel, containers, equipment, and adjacent structures or to enter enclosed spaces. The stationary container
	shall not be placed where spilled or discharged fluids will be retained around the container (5504.3.1.1.5 and 5504.3.1.2.3).
	Shutoff valves shall be installed in piping containing cryogenic fluids where needed to limit the volume of liquid discharged in
	the event of piping or equipment failure. Shutoff valves shall be provided with access thereto and located as close as practical
	to the container (5505.1.2.3.1).
	Shutoff valves shall be installed in piping containing cryogenic fluids where needed to limit the volume of liquid discharged in
	the event of piping or equipment failure. Pressure relief valves shall be installed where liquid is capable of being trapped
	between shutoff valves in the piping system (5505.1.2.3.2).
	Identify the type of pipe, design pressure, maximum operating pressure and test pressure of vessels and associated piping. All
	of the piping shall be identified in accordance with ASME A13.1.
	The piping systems shall be tested and proven free of leaks after installation as required by the standards by which they were
	designed and constructed. The test pressures shall not be less than 150 percent of the maximum allowable working pressure
	when hydraulic testing is conducted or 110 percent when testing is conducted pneumatically (5505.1.2.6).
	Provisions for safe dispensing, emptying or refilling containers including vehicle access, over-fill protection, "dead-man"
	controls and internal transport carts and trucks to be used.
Emerge	ncy Shutoff Valves:
	Outdoor use requires that manual or automatic emergency shutoff valves shall be provided to shut off the cryogenic fluid
	supply in case of an emergency. An emergency shutoff valve shall be located at the source of supply and at the point where
	the system enters the building (5505.3.2).
	Emergency shutoff valves shall be identified, and the location shall be clearly visible and indicated by means of a sign.
lise and	l Handling:
	Indoor areas where cryogenic fluids are dispensed shall be ventilated in accordance with the requirements of the International
	Mechanical Code in a manner that captures any vapor at the point of generation (5505.4.1.1).
	Exception: Cryogenic fluids that can be demonstrated not to create harmful vapors do not require ventilation
	Where cryogenic containers are moved by hand cart, hand truck or other mobile device, such carts, trucks, or devices shall be
	designed for secure movement of the container. Carts and trucks used to transport cryogenic containers shall be designed to
	provide a stable base for the commodities to be transported and shall have a means of restraining containers to prevent
	accidental dislodgement (5505.5.1).
	Pressurized containers shall be transported in closed conditions. Containers designed for use at atmospheric conditions shall
	be transported with appropriate loose-fitting covers in place to prevent spillage (5505.5.2).
Markin	g and Signage:
Visible I	nazard identification signs in accordance with NFPA 704 shall be provided at entrances to buildings or areas in which cryogenic
	e stored, handled, or used. Markings shall be visible from any direction of approach. Buildings, rooms, containers, and piping
systems	containing cryogenic liquids shall be labeled in accordance with WSFC 5503.4, NFPA 704 and ASME A13.1 as follows:
	Stationery and portable containers shall be marked with the name of the gas contained:
	1. Stationary above-ground containers shall be placarded in accordance with WSFC 5003.5 and 5003.6.
	2. Portable containers shall be identified in accordance with CGA C-7.
	Stationary containers shall be identified with the manufacturing specification and maximum allowable working pressure with
	a permanent nameplate. The nameplate shall be installed on the container in a location provided with ready access. The
	nameplate shall be marked in accordance with the ASME Boiler and Pressure Vessel Code or DOT-49 CFR Parts 100–185

	Containe	er inlet and outlet connections, liquid-level limit controls, valves and pressure gauges shall be identified with one of
	the follo	wing:
	1.	A permanent tag or label identifying the function.
	2.	A schematic drawing that portrays the function and designates whether the connection is to the vapor or liquid space
		of the container. Where provided, this drawing shall be attached to the container and maintained in a legible condition.
	Piping sl	hall be labeled with the content and direction of flow and in accordance with ASME A13.1. Markings used for piping
	systems	shall consist of the content's name and include a direction-of-flow arrow. Markings shall be provided at each valve; at
	wall, floo	or, or ceiling penetrations; at each change of direction; and at not less than every 20 feet or fraction thereof throughout
	the pipir	ng run.
	<u>Exceptio</u>	<u>ns:</u>
	1.	Piping that is designed or intended to carry more than one gas at various times shall have appropriate signs or markings posted at the manifold, along the piping, and at each point of use to provide clear identification and warning.
	2.	Piping within gas manufacturing plants, gas processing plants, refineries and similar occupancies shall be marked in
		an approved manner.
NOTE:	This is not	intended to be an all-inclusive list. The WSFC requirements listed are intended to ensure that we have adequate
informa	ation to be	gin a review of the application. Additional information may be required.
lunders	stand that	all applicable codes apply and that other regulatory codes may also apply. Errors and/or omissions on the plans
and co	rrections f	rom field inspections are the responsibility of the owner/contractor. All work is subject to compliance with City of
Vancou	ver ordina	ances and laws of the State of Washington.
APPLIC	CANT NAM	IE:APPLICATION DATE:
APPLIC	CANT SIGN	ATURE: