

OPERATIONAL PERMIT APPLICATION HAZARDOUS MATERIALS USE AND STORAGE



**PRINCE WILLIAM COUNTY
DEPARTMENT OF FIRE AND RESCUE
FIRE MARSHAL'S OFFICE
5 COUNTY COMPLEX CT. SUITE 160
PRINCE WILLIAM, VA 22192**
(703) 792-6360 office (703) 792-6492 fax
WWW.PWCGOV.ORG/FIRE

Permit Number:
Date Issued:
Expiration Date:

- | | |
|--|---|
| <input type="checkbox"/> Compressed Gases | <input type="checkbox"/> Corrosive Material |
| <input type="checkbox"/> Cryogenic Fluids | <input type="checkbox"/> Oxidizing materials |
| <input type="checkbox"/> Toxic Substances | <input type="checkbox"/> Reactive Substances |

I. Instructional Section

1. Please review this application thoroughly, fill out all requested information and submit with all necessary attachments to the Prince William County Fire Marshal's Office at the above address or PWCFMOFOP@pwcgov.org.
2. A permit fee of \$382.15 is required at the time of application submittal. Checks can be made payable to "Prince William County". Credit card payments are accepted over the phone.
3. Prince William County Hazardous Materials Storage Permits for the are good for 12 months from date of issuance.
4. A review of this application packet will be conducted, and an onsite inspection will be made at the time of permit delivery to verify that it meets all requirements.

II. Informational Section

Location Information

Name of Business:	
Street Address of Location:	
Name of Applicant:	
Address of Applicant:	Email Address of Applicant:
Emergency Contact Name:	Emergency Contact Phone:

OPERATIONAL PERMIT APPLICATION HAZARDOUS MATERIALS USE AND STORAGE

III. List of Required Documents and Items

- ✓ Hazardous Materials Management Plan and Spill Control Plan (*VSFPC 5001.5.1*)
- ✓ Hazardous Materials Inventory Statement (*VSFPC 5001.5.2*)
- ✓ Completed application
- ✓ Safety Data Sheet (SDS)
- ✓ Statement certifying storage and use of hazardous materials complies with VSFPC Chapter 50 Hazardous Materials.

IV. Quantities for permit requirements (Table 107.2)

Compressed Gases

- Corrosive, and flammable gases in excess of 200 ft³ at normal temperature and pressure
- Any amount of toxic gases, highly toxic gases, pyrophoric gases.
- More than 6000 ft³ or more of inert or simple asphyxiant gases.
- More than 504 ft³ oxidizing gases except oxygen.
- More than 13,000 ft³ bulk oxygen storage (non-cryogenic) (Reference 29 CFR 1910.104 – Oxygen [1])

Corrosive Materials

- Gases – See compressed gases.
- Liquids – More than 55 gallons
- Solids – More than 1000 pounds

Cryogenic Fluids

	Inside building (gallons)	Outside building (gallons)
• Flammable	More than 1	60+
• Inert	60+	500+
• Oxidizing	10+	50
• Physical or Health Hazard		
• (Not listed above to include toxic)	Any Amount	Any Amount

OPERATIONAL PERMIT APPLICATION HAZARDOUS MATERIALS USE AND STORAGE

Oxidizing Materials

- Oxidizing Gases – see compressed gases
- Oxidizing Liquids
 - Class 4 - Any amount
 - Class 3 - 1 gallon
 - Class 2 - 10 gallons
 - Class 1 - 55 gallons
- Oxidizing Solids
 - Class 4 - Any amount
 - Class 3 - 10 pounds
 - Class 2 - 100 pounds
 - Class 1 - 500 pounds
- Organic peroxides - Liquids
 - Class I - Any Amount
 - Class II - Any Amount
 - Class III - 1 gallon
 - Class IV - 2 gallons
 - Class V - No permit required
- Organic peroxides - Solids
 - Class I - Any Amount
 - Class II - Any Amount
 - Class III - 10 pounds
 - Class IV - 20 pounds
 - Class V - No permit required

Toxic Substances

- Gases – See Compressed Gases
- Liquids – 10 Gallons
- Solids – 100 pounds

Reactive Substances

- Unstable (reactive) materials -Liquids
 - Class 4 - Any Amount
 - Class 3 - Any Amount
 - Class 2 - 5 gallons
 - Class 1 - 10 gallons
- Unstable (reactive) materials - Solids
 - Class 4 - Any Amount
 - Class 3 - Any Amount
 - Class 2 - 50 pounds
 - Class 1 - 100 pounds
- Water-reactive materials - Liquids
 - Class 3 - Any Amount
 - Class 2 - 5 gallons
 - Class 1 - 55 gallons
- Water-reactive materials - Solids
 - Class 3 - Any Amount
 - Class 2 - 50 pounds
 - Class 1 - 500 pounds

OPERATIONAL PERMIT APPLICATION HAZARDOUS MATERIALS USE AND STORAGE

Carefully review the following:

The Storage of Hazardous Materials in Prince William County are regulated by the following sources:

- Virginia Statewide Fire Prevention Code Chapters 23, 50, and 57 (2021 edition)

Applicable Code Sections:

- *VSFPC 107.2* Permits may be required by the fire official as permitted under the SFPC in accordance with Table 107.2.
- *VSFPC 107.4* Before a permit is issued, the fire official shall make such inspections or tests as are necessary to assure that the use and activities for which application is made comply with the provisions of this code.
- *VSFPC 107.7* Plans approved by the Fire Official are approved with the intent that they comply in all respects to this code. Any omissions or errors on the plans do not relieve the applicant of complying with all applicable requirements of this code.
- *VSFPC 108.4* the Fire Official may revoke a permit or approval issued under the SFPC if conditions of the permit have been violated, or if the approved application, data, or plans contain misrepresentation as to material fact.
- *VSFPC 5001.3.3.1* The physical and health-hazard properties of hazardous materials on site shall be known and shall be made readily available to employees, neighbors, and the fire code official.
- *VSFPC 5001.3.3.2* Equipment and operations involving hazardous materials shall be designed, installed and maintained to ensure that they reliably operate as intended.
- *VSFPC 5001.3.3.3* Prevention of unintentional reaction or release. Safeguards shall be provided to minimize the risk of an unintentional reaction or release that could endanger people or property.
- *VSFPC 5001.3.3.4* Spill containment systems or means to render a spill harmless to people or property shall be provided where a spill is determined to be a plausible event and where such an event would endanger people or property.
- *VSFPC 5001.3.3.5* Safeguards shall be provided to minimize the risk of exposing combustible hazardous materials to unintended sources of ignition.
- *VSFPC 5001.3.3.6* Safeguards shall be provided to minimize the risk of exposing hazardous materials to a fire or physical damage whereby such exposure could endanger or lead to the endangerment of people or property.
- *VSFPC 5001.3.3.7* Safeguards shall be provided to minimize the risk of and limit damage from a fire or explosion involving explosive hazardous materials whereby such fire or explosion could endanger or lead to the endangerment of people or property.
- *VSFPC 5001.3.3.8* Where a release of hazardous materials gas or vapor would cause immediate harm to persons or property, means of mitigating the dangerous effects of a release shall be provided.
- *VSFPC 5001.3.3.9* Where a power supply is relied upon to prevent or control an emergency condition that could endanger people or property, the power supply shall be maintained in accordance with the applicable building code.

OPERATIONAL PERMIT APPLICATION HAZARDOUS MATERIALS USE AND STORAGE

- *VSFPC 5001.3.3.10* Where ventilation is required by the applicable building code, it shall be maintained.
- *VSFPC 5001.3.3.11* Process hazard analyses shall be conducted to ensure reasonably the protection of people and property from dangerous conditions involving hazardous materials.
- *VSFPC 5001.3.3.12* Written documentation of pre-startup safety review procedures shall be developed and enforced to ensure that operations are initiated in a safe manner. The process of developing and updating such procedures shall involve the participation of affected employees.
- *VSFPC 5001.3.3.13* Written documentation of operating procedures and procedures for emergency shut down shall be developed and enforced to ensure that operations are conducted in a safe manner. The process of developing and updating such procedures shall involve the participation of affected employees.
- *VSFPC 5001.3.3.14* A written plan for management of change shall be developed and enforced. The process of developing and updating the plan shall involve the participation of affected employees.
- *VSFPC 5001.3.3.15* A written emergency plan shall be developed to ensure that proper actions are taken in the event of an emergency, and the plan shall be followed if an emergency condition occurs. The process of developing and updating the plan shall involve the participation of affected employees.
- *VSFPC 5001.3.3.16* Written procedures for investigation and documentation of accidents shall be developed, and accidents shall be investigated and documented in accordance with these procedures.
- *VSFPC 5001.3.3.17* Where an accidental release of hazardous materials could endanger people or property, either on or off-site, an analysis of the expected consequences of a plausible release shall be performed and utilized in the analysis and selection of active and passive hazard mitigation controls.
- *VSFPC 5001.3.3.18* Safety audits shall be conducted on a periodic basis to verify compliance with the requirements of this section.
- *VSFPC 5001.5.1* Where required by the fire code official, an application for a permit shall include a Hazardous Materials Management Plan (HMMP). The HMMP shall include a facility site plan designating the following:
 1. Access to each storage and use area.
 2. Location of emergency equipment.
 3. Location where liaison will meet emergency responders.
 4. Facility evacuation meeting point locations.
 5. The general purpose of other areas within the building.
 6. Location of all above-ground and underground tanks and their appurtenances including, but not limited to, sumps, vaults, below-grade treatment systems and piping.
 7. The hazard classes in each area.
 8. Locations of all control areas and Group H occupancies.
 9. Emergency exits.

OPERATIONAL PERMIT APPLICATION HAZARDOUS MATERIALS USE AND STORAGE

- *VSFPC 5001.5.2* Hazardous Materials Inventory Statement (HMIS). Where required by the fire code official, an application for a permit shall include an HMIS, such as Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III, Tier II Report or other approved statement. The HMIS shall include the following information:
 1. Product name.
 2. Component.
 3. Chemical Abstract Service (CAS) number.
 4. Location where stored or used.
 5. Container size.
 6. Hazard classification.
 7. Amount in storage.
 8. Amount in use-closed systems.
 9. Amount in use-open systems.

The above references only list the most commonly used code sections during most hazardous materials operational permit inspections. Depending on the site, use and storage of hazardous materials other codes sections will apply.

Applicant Signature:	Date:
FMO Reviewer:	Date: