



# Construction/Operational Permit Application



## Fumigation and Insecticidal Fogging

[www.cityofvancouver.us/departments/fire-department](http://www.cityofvancouver.us/departments/fire-department)

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

### Permitting Requirements

Fumigation is the utilization within an enclosed space of a fumigant (methyl bromide, hydrogen cyanide, etc.) in concentrations that are hazardous or acutely toxic to humans to eradicate insects or rodents that infest agricultural crops or stored products. Insecticidal fogging is the utilization of insecticidal liquids passed through fog-generating units where, by means of pressure and turbulence with or without the application of heat, such liquids are transformed and discharged in the form of fog or mist blown into an area to be treated.

An **operational permit** is required to operate a business of fumigation or insecticidal fogging, and to maintain a room, vault or chamber in which a toxic or flammable fumigant is used.

### Project Information

Site Address		Owner Name	
Other			

### Applicant Information

Company Name		Address	
Contact Name			
Office Phone		Cellular	
		Email	

### Contractor

Company Name		Address	
Contact Name			
Office Phone		Cellular	
		Email	

Application type:	<input type="checkbox"/> Construction <input type="checkbox"/> Operational <input type="checkbox"/> Both Construction and Operational			
Fumigant Type:	<input type="checkbox"/> Methyl Bromide <input type="checkbox"/> Chloropicrin <input type="checkbox"/> Hydrogen Cyanide <input type="checkbox"/> Phosphine <input type="checkbox"/> Sulfuryl Fluoride <input type="checkbox"/> Ethylene Oxide <input type="checkbox"/> 1-Dichloropropene <input type="checkbox"/> Other (Specify): _____			
Insecticidal Liquid:	<input type="checkbox"/> Pyrethroids <input type="checkbox"/> Organophosphates <input type="checkbox"/> Pyrethrins <input type="checkbox"/> Botanical Extracts/Oils <input type="checkbox"/> Aerosols <input type="checkbox"/> Insect Growth Regulators <input type="checkbox"/> Microencapsulated Formulations <input type="checkbox"/> Other (Specify): _____			
Related Permits:	RES _____	CMI _____	DEF _____	MPE _____

## Description of Work

## 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 – Fumigation & Insecticidal Fogging (this document) Check all *Permit Conditions* checkboxes that are applicable to your project
- Completed Materials Management Plan (HMMP) documents and supplemental documents (*See Document Details* below)
- Site plans and floor plans (*see Plan Details* below)

## Document Details

HMMP Guide: <https://www.cityofvancouver.us/wp-content/uploads/2023/10/Hazardous-Materials-Management-Plan.pdf>

See *Vancouver Fire Department HMMP Guide* for direction on completing required HMMP and/or supplemental forms

With your completed permit application, provide the follow documents:

- Hazardous Materials Management Plan and required supplemental forms (see HMMP Guide linked above for direction on these forms)
- Listing documents for all proposed equipment to be used for fumigation and fogging operations
- Safety Data Sheets (SDS) for hazardous materials to be used in fumigation and fogging operations

## Plan Details

The following is a list of information required on all plan submittals for review of a fumigation and insecticidal fogging permit. The plan shall be drawn to 1/8" = 1'-0" minimum scale. The applicant is required to submit all applicable information so an accurate and timely review may be completed:

### **General:**

- Site plan to include a north arrow, a measurable scale for calibration purposes, fire hydrants, emergency access lanes and doors, vehicle gates, fire department connection, facility evacuation meeting point locations, sprinkler riser, fire alarm control panel, Knox Box, and roof access (if provided).
- Life safety plans to include building layout, exit routes, travel distance measurements, occupant load calculations, egress capacity, portable fire extinguisher locations, refuge areas, and fire-resistance-rated construction.
- Placement and type of mechanical ventilation. Mechanical ventilation shall be kept in operation at all times while indoor fumigation or fogging operations are being conducted and for a sufficient time thereafter to allow to be exhausted.
- Identification showing the exhaust termination height above roof and distance to openings.
- Portable fire extinguisher locations per WSFC Section 906.
- Classified electrical areas (e.g. Class I, Division 1, or Class II, Division 1, hazardous locations in accordance with NFPA 70).
- Listings and location of electrical grounding as required by NFPA 70 both for equipment and Class I and II liquid containers.
- Areas of open flames and sparks, hot surfaces, or other ignition sources.
- Liquid transfer details, valves that are to be closed when not in use, manually or automatic pumped or transferred liquids.
- Cleaning equipment, method, location, type of solvent.
- Indicate non-sparking tools and approved metal waste cans with self-closing lids that are to be emptied daily.

## Permit Conditions

The following is a list of Chapter 26 WSFC requirements related to fumigation and insecticidal fogging permit. Use this form to confirm that all applicable requirements are met. Non-applicable requirements can be left blank.

### General:

- Insecticidal fogging liquids with a flash point below 100°F (38°C) shall not be utilized (WSFC 2603.4).
- Paper and other similar materials that do not meet the flame propagation performance criteria of Test Method 1 or Test Method 2, as appropriate, of NFPA 701 shall not be used to wrap or cover a building, structure, or space in excess of that required for the sealing of cracks, casements, and similar openings (WSFC 2603.5).
- All openings to the building, structure, or space to be fumigated or fogged shall be kept securely closed during such operation (WSFC 2603.5.1)
- At the end of the exposure period, fumigators shall safely and properly ventilate the premises and contents; properly dispose of fumigant containers, residues, debris, and other materials used for such fumigation; and clear obstructions from gas-fired appliance vents (WSFC 2603.6).
- The use of carbon disulfide and hydrogen cyanide shall be restricted to agricultural fumigation (WSFC 2603.7).

### Sources of Ignition:

- Fires, open flames and similar sources of ignition shall be eliminated from the space under fumigation or insecticidal fogging. Heating, where needed, shall be of a permitted type (WSFC 2603.2).
  - Electricity in any part of the building, structure, or space where operation of switches or electrical devices, equipment or systems could serve as a source of ignition shall be shut off (WSFC 2603.2.1).  
*Exception:* Circulating fans that have been specifically designed for utilization in hazardous atmospheres and installed in accordance with NFPA 70.
  - Electronic devices, including portable equipment and cellular phones, shall be shut off. Telephone lines shall be disconnected from telephones (WSFC 2603.2.2).
  - Sources of ignition shall be shut off during the fumigation activity and remain shut off until the ventilation required in WSFC 2603.6 is completed (WSFC 2603.2.3)

**Notification:**

- The fire chief shall be notified in writing not less than 48 hours before the building, structure or space is to be closed in connection with the utilization of any toxic or flammable fumigant. Notification shall give the location of the enclosed space to be fumigated or fogged, the occupancy, the fumigants, or insecticides to be utilized, the person or persons responsible for the operation, and the date and time at which the operation will begin. ([vanfmo@cityofvancouver.us](mailto:vanfmo@cityofvancouver.us) (360) 487-7260).
- Written notice of any fumigation or insecticidal fogging operation shall be given to all affected occupants of the building, structure, or space in which such operations are to be conducted with sufficient advance notice to allow the occupants to evacuate the building, structure, or space. Such notice shall inform the occupants as to the purposes, anticipated duration and hazards associated with the fumigation or insecticidal fogging operation (WSFC 2603.3).
- Warning signs indicating the danger, type of chemical involved, and necessary precautions shall be posted on all doors and entrances to the affected building, structure or space and on all gangplanks and ladders from the deck, pier or land to a ship. Such notices shall be printed in red ink on a white background. Letters in the headlines shall be not less than 2 inches in height and shall state the date and time of the operation, the name and address of the person, the name of the operator in charge, and a warning stating that the affected building, structure or space shall be vacated not less than 1 hour before the operation begins and shall not be reentered until the danger signs have been removed by the proper authorities (WSFC 2603.3.1).
- Persons engaged in the business of fumigation or insecticidal fogging shall maintain and have available protective breathing apparatus (WSFC 2603.3.2).
- During the period fumigation is in progress, except where fumigation is conducted in a gastight vault or tank, a responsible watchperson shall remain on duty at the entrance or entrances to the enclosed fumigated space until after the fumigation is completed and the building, structure or space is properly ventilated and safe for occupancy. Sufficient watchers shall be provided to prevent persons from entering the enclosed space under fumigation without being observed (WSFC 2603.3.2).
- Occupants of the building, structure, or space to be fumigated, except the personnel conducting the fumigation, shall be evacuated from such building, structure or space prior to commencing fumigation operations (WSFC 2603.3.4).

**NOTE:** *This is not intended to be an all-inclusive list. The WSFC requirements listed are intended to ensure that we have adequate information to begin a review of the application. Additional information may be required.*

**I understand that all applicable codes apply and that other regulatory codes may also apply. Errors and/or omissions on the plans and corrections from field inspections are the responsibility of the owner/contractor. All work is subject to compliance with City of Vancouver ordinances and laws of the State of Washington.**

APPLICANT NAME: \_\_\_\_\_ APPLICATION DATE: \_\_\_\_\_

APPLICANT SIGNATURE: \_\_\_\_\_