



## Building Permit Information for Commercial Cooking Ventilation and Fire Suppression Systems District of North Vancouver

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### Building Permit Requirements

A DNV *Schedule E (Owner's Authorization)* together with strata council approval for the project is required at the time of building permit application. Building permit applications are by appointment and the building permit application partial payment fee is payable at the time of application. Refer to *DNV Renovation of Existing Building or Suite (Tenant Improvement)* notice for general requirements related to changes of use, occupancy or construction work.

New Commercial cooking installations, which produce steam or grease laden vapours, require a building permit for the mechanical ventilation and fire suppression system.

The submission is to be prepared by an engineer and include ink sealed drawings and *Schedule B Letters of Assurance for Mechanical (HVACO) and Fire Suppression*. All building permit submissions and work on site shall comply with the *BC Building Code and NFPA 96*. Ventilation of steam requires ink sealed drawing demonstrating design to good engineering practice. Designs to *NFPA 96* must include a sequence of operation that coordinates the mechanical, fire suppression and fire alarm UFE Safety Systems.

Notes and details on permit drawings for new or upgraded ventilation systems should include but not be limited to the following:

1. Size and location of all equipment on plan and elevation, drawn to a recognizable scale.
2. Size of hood and overhang.
3. Specify that penetrations into the hood are to be made liquid tight.
4. A passing leak test of the duct using a high pressure rotating water jet to replicate the six-month cleaning process shall be demonstrated to the Fire Department before fire suppression demonstration or wrapping of the duct in protective insulation.
5. Ventilation and make-up air to be interlinked to ensure compliance with *BCBC 6.2.3.12*.
6. Hood and duct construction or *ULC* listing.

7. Number of open sides of the hood.
8. Filters to be *ULC* approved.
9. Design exhaust air volume.
10. Clearances of hood and ducting to combustibles and noncombustibles.
11. Type and location of protective insulation (where applicable).
12. Shaft construction and *ULC* listing for the fire resistance rating required by *NFPA*.
13. Detail of exhaust termination including distances from exhaust fan to adjacent buildings, property lines or air intakes, in conformance to *NFPA 96*.
14. An outline elevation of the building showing exterior ducting or mechanical equipment visible from outside the building and not set well back from the edge of a flat roof.

Notes and details on permits for new or upgraded fire suppression systems should include but not be limited to the following:

1. Identify the standard being used and specify piping, nozzle types and detection.
2. Show the positions of nozzles and detection, to scale, on plan and elevation.
3. Indicate an accessible manual release in the exit path.
4. Specify the make and model of the fire suppression system to be used.
5. Note: Only equipment referenced in the manufacturer's listed installation manual is to be used.
6. Provide a 'sequence of operation' schematic.
7. Specify the testing required.
8. Specify the design standard used for the design and installation of the fire suppression system.

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*Signed / Engineer of Record*

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*Date*

Seal:

