Ontario Building Code Analysis

Design of Hazardous Areas

Project address

Project address: _____

Questionnaire

Contact information

This questionnaire has been completed by:

First name: _____

Last name: _____

Email: _____ Phone: _____

Signature: _____

Will there be storage of any explosives, blasting agents, detonators, propellant explosives, fireworks, pyrotechnics or ammunition?

◯ Yes ◯ No

- If yes, submit professional engineer's report verifying design compliance with the Explosives Act (Canada), the Explosives Regulations made under that act, and the Corporation of the City of Guelph bylaw number (1993)-14362, Fireworks Bylaw.

Note: up to 1,000 kilograms of consumer fireworks (Type F.1) and 225 kilograms of small arms cartridge ammunition (Type C.) may be stored for sale without an explosives licence from NRC.

1. Will there be storage of any compressed gas?

   ◯ Yes ◯ No

   - If yes, professional engineer to complete Section 1 below.

2. Will there be storage or dispensing of any flammable liquids or combustible liquids?

   ◯ Yes ◯ No

   - If yes, professional engineer to complete Section 2 below.

3. Will there be indoor storage of tires?

   ◯ Yes ◯ No

   - If yes, provide volume of intended tire storage area: _____ m^3 (cubic metres)

Note: if more than 375 m^3, tires shall be in a two hour fire compartment. (Reference Ontario Building Code (OBC) 3.3.6.5.). If more than 425 m^3, refer to subsection 3.3.1. of the Fire Code.

4. Will there be storage of ammonium nitrate?

   ◯ Yes ◯ No

   - If yes, professional engineer to complete Section 3 below.

5. Will any areas of the building be used as a process plant where unstable liquids are handled or small scale unit chemical processes occur?

   ◯ Yes ◯ No

   - If yes, identify room name(s) or number(s): _____

6. Will there be any type of dust producing processes?

   ◯ Yes ◯ No

   - If yes, submit professional engineer's verification (report and/or drawing) that the building has been designed in accordance with Section 5.10 of the Fire Code and NFPA 68, "Explosion Protection by Deflagration Venting". (Reference OBC, 6.2.2.5.)

7. Will there be any type of spray application?

   ◯ Yes ◯ No

   - If yes, submit professional engineer's verification (report and/or drawing) that the building has been designed in accordance with Section 5.12 of the Fire Code and NFPA 33, "Standard for Spray Application Using Flammable or Combustible Materials". (Reference OBC, 6.2.2.5.)

8. Will there be any type of special spray processes such as dry powder finishing or automobile undercoating?

   ◯ Yes ◯ No

   - If yes, submit professional engineer's verification (report and/or drawing) that the building has been designed in accordance with the applicable subsections and reference standards of 5.14 of the Fire Code. (Reference OBC, 6.2.2.5.)

9. Will there be any type of drying oven or bake oven?

   ◯ Yes ◯ No

   - If yes, submit professional engineer's verification (report and/or drawing) that the building has been designed in accordance with Section 5.18 of the Fire Code and NFPA 86, "Standard for Ovens and Furnaces". (Reference OBC, 6.2.2.5.)

10. Will there be any additional hazardous gases, dusts, or liquids that require ventilation in conformance with the Ontario Fire Code, National Fire Code and/or good engineering practice as described in NFPA publications. (Reference OBC, 6.2.2.5 and 6.2.13.)

◯ Yes ◯ No

Section 1 – Compressed Gas

Data sheet

Complete the following chart by describing all compressed gasses that will be stored inside the building.

Table 1 compressed gasses

Type of compressed gas	Flammable (yes or no)	Poisonous or corrosive (yes or no)	Quantity: - number of cylinders - weight in kilograms	Is the gas lighter or heavier than air?	Will the compressed gas react with any other compressed gases in the building? If yes, please specify.

Has this building been designed in accordance with all applicable Building Code and Fire Code requirements related to the indoor storage of compressed gas?

◯ Yes ◯ No

Completed by: _____

Signature: _____

Notes: _____

_____

_____

Professional seal:

Section 2 – Flammable liquids and combustible liquids

Data Sheet

Complete the following chart by describing all flammable liquids and combustible liquids that will be stored inside the building.

Table 2 flammable and combustible liquids

Type of liquid	Class	Quantity (liters)	Density (liters per square metre)	Storage, dispensing or both?	Open or closed containers?	Storage method: (fire separated room, certified cabinet, incidental use)

Has this building been designed in accordance with all applicable Building Code and Fire Code requirements related to the indoor storage or dispensing of flammable and combustible liquids?

◯ Yes ◯ No

Completed by: _____

Signature: _____

Notes: _____

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_____

Professional seal:

Section 3 – Ammonium Nitrate

Complete the following chart by describing all ammonium nitrate that will be stored inside the building.

Table 3 ammonium nitrate details

Form of ammonium nitrate (crystals, flakes, grains or prills or any fertilizer grade/other mixture containing 60% or more ammonium nitrate by weight)	Quantity (kilograms)

Has this building been designed in accordance with all applicable Building Code and Fire Code requirements related to the indoor storage of ammonium nitrate?

◯ Yes ◯ No

Completed by: _____

Signature: _____

Notes: _____

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Professional seal:

Collection of Personal Information

Personal information contained in this form and schedules is collected under the authority of subsection 8(1.1) of the Building Code Act, 1992 and will be used in the administration and enforcement of the Building Code Act, 1992.

If you have questions about the collection, use or disclosure of this personal information please call 519-822-1260 extension 2349 or email privacy@guelph.ca.

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